TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
INTERIM REMEDIAL MEASURE - CONSTRUCTION AREA

INVESTIGATION REPORT
& REMEDIAL ACTION PLAN

NOVEMBER 2005

Prepared For:

Town of Oyster Bay
Department of Public Works

H2M GROUP

Engineers • Architects • Scientists • Planners • Surveyors

HOLZMACHER, McLENDON & MURRELL, P.C.
575 Broad Hollow Road
Melville, New York 11747-5076

H2MGROUP

TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
INTERIM REMEDIAL MEASURE - CONSTRUCTION AREA
INVESTIGATION REPORT & REMEDIAL ACTION PLAN

NOVEMBER 2005

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 SITE HISTORY AND DESCRIPTION 2

3.0 DESCRIPTION OF WORK COMPLETED 3

3.1 Geophysical Survey 3
3.2 Soil Sampling Program 4
3.2.1 Deviations to Proposed Soil Sampling Program 5
3.3 Soil Vapor Sampling 6
3.4 Monitoring Well Installation and Sampling 6
3.5 Community Air Monitoring 7

4.0 NATURE AND EXTENT OF CONTAMINATION 8

4.1 Standards, Criteria and Guidelines (SCG) 8
4.2 Soil Investigation Findings 9
4.3 Soil Vapor Sampling Results 12
4.4 Groundwater Sampling Results 13

5.0 QA/QC SAMPLING & DATA VALIDATION 15

5.1 Field Investigation QA/QC 15
5.2 Data Validation 18

6.0 HUMAN EXPOSURE ASSESSMENT 18

6.1 Exposure and Pathway Overview for the Site 19
6.1.1 Exposure Pathways 20
6.1.2 Complete Pathway 23
6.2 Toxicity Assessment 25
6.3 Risk Characterization 27

7.0 REMEDIAL ACTION PLAN 27

7.1 Site Investigation Summary 27
7.2 Remedial Action Objective 30
7.3 Proposed Remedial Strategy 30
7.4 Logistical Implementation 36

TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
INTERIM REMEDIAL MEASURE - CONSTRUCTION AREA
INVESTIGATION REPORT & REMEDIAL ACTION PLAN

NOVEMBER 2005

LIST OF FIGURES

FIGURE 1 Site Location Map

FIGURE 2 General Site Plan

FIGURE 3 Utility Markout Site Plan

FIGURE 4 Site Plan Depicting Soil Sampling & Monitoring Well Locations

FIGURE 5 Site Plan with Soil Sampling Results for Metals

FIGURE 6 Site Plan with Soil Sampling Results for PCBs

FIGURE 7 Site Plan with Soil Sampling Results for VOCs and SVOCs

FIGURE 8 Potentiometric Groundwater Surface Map

FIGURE 9 Remedial Action Excavation Plan

LIST OF TABLES

TABLE 3.2.1 Soil Boring Location Deviations from Proposed Work Plan

TABLE 4.2.1 PCB Soil Sampling Results

TABLE 4.2.2 Metals Soil Sampling Results

TABLE 4.2.3 VOC Soil Sampling Results

TABLE 4.2.4 SVOC Soil Sampling Results

TABLE 4.3.1 VOC Soil Vapor Sampling Results

TABLE 4.4.1 PCB Groundwater Sampling Results

LIST OF TABLES (continued)

TABLE 4.4.2 Metals Groundwater Sampling Results

TABLE 4.4.3 VOC Groundwater Sampling Results

TABLE 4.4.4 SVOC Groundwater Sampling Results

TABLE 5.1.1 QA/QC Trip Blank Sampling Results Comparison for VOCs

TABLE 5.1.2 QA/QC Blind Duplicate Results Comparison for PCBs

TABLE 5.1.3 QA/QC Blind Duplicate Results Comparison for Metals

TABLE 6.3.1 Qualitative Risk Characterization

APPENDICES

APPENDIX A Soil Boring Logs

APPENDIX B Monitoring Well Construction Logs

APPENDIX C Data Usability Summary Reports

H2MGROUP

TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
INTERIM REMEDIAL MEASURE - CONSTRUCTION AREA
INVESTIGATION REPORT & REMEDIAL ACTION PLAN

NOVEMBER 2005

1.0 INTRODUCTION

This Interim Remedial Measure (IRM) Investigation Report and Remedial Action Plan summarizes the results of an environmental investigation conducted within a designated construction area (Construction Area) at the Bethpage Community Park in Bethpage, New York (site), and presents a remedial strategy to address areas identified with contamination. This program was conducted in accordance with a New York State Department of Environmental Conservation (NYSDEC) approved IRM Work Plan, prepared by Holzmacher, McLendon & Murrell, P.C. (H2M) dated May 2005, as well as the terms of an Order on Consent between the Town of Oyster Bay and the NYSDEC.

The remedial investigation was completed in support of an Interim Remedial Measure (IRM) at the Bethpage Community Park. The site is currently owned by the Town of Oyster Bay, but was formerly owned and operated by Grumman Aircraft Engineering Corporation, a predecessor to Northrop Grumman Systems Corporation (Northrop Grumman). Prior site investigation reports, prepared on behalf of Northrop Grumman, have indicated that the site had been utilized by Northrop Grumman for waste disposal activities including industrial wastewater treatment sludge disposal, spent paint booth rag disposal, possible used oil disposal, and fire training activity that included ignition of waste oil and jet fuel. Previous site investigations documented significant impacts to site soils from these activities including the presence of elevated concentrations of metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and polychlorinated biphenyls (PCBs). In addition, prior investigation reports documented volatile organic compound impacts to groundwater at the site.

The Bethpage Community Park totals approximately 18-acres. In an effort to expedite remediation of an approximately 7-acre portion of the Park for redevelopment, designated as the

Construction Area, the Town of Oyster Bay entered into an Order on Consent with the NYSDEC. As of the date of this report, it is H2M's understanding that the NYSDEC has negotiated an Order on Consent with Northrop Grumman relating to further investigation and remediation of the subject property and off-site impacts.

2.0 SITE HISTORY AND DESCRIPTION

The Bethpage Community Park is located in Bethpage, New York, on the west side of the intersection of Stewart Avenue and Cherry Avenue. The site is located within the Town of Oyster Bay in Nassau County. A site location map is presented in Figure 1. The park includes a pool, skating rink, baseball field, tennis courts, children's play areas and parking. The entire site is approximately 18 acres in size and is currently owned by the Town of Oyster Bay.

Prior to being donated to the Town of Oyster Bay, the subject site was owned by Grumman Aircraft Engineering Corporation, a predecessor to Northrop Grumman Systems Corporation. According to reports prepared on behalf of Northrop Grumman Systems Corporation[1], Northrop Grumman utilized the property for waste disposal purposes including industrial wastewater treatment sludge, spent paint booth rag disposal, and possible used oil disposal. In addition, it has been reported that Northrop Grumman utilized the site for fire training, which included ignition of waste oil and jet fuel.

Ownership of the site was transferred to the Town of Oyster Bay in 1962, after which, the Town constructed the present-day Park. The community actively utilized the site until 2002, when the Park was partially closed due to the identification of PCB and metals impacts above state guideline concentrations in surface soils. Portions of the site remain closed to this day, pending remediation.

A number of environmental investigations have been conducted relative to the Park. Recent site investigations have been conducted by Dvirka and Bartilucci Consulting Engineers, on behalf of

[1] Dvirka and Bartilucci, December 2003, Town of Oyster Bay Bethpage Community Park Investigation Sampling Program – Field Report.

Northrop Grumman. Two significant soil sampling programs were implemented by Northrop Grumman in recent years, a March/May 2002 soil sampling event and a May/June 2003 sampling event. Northrop Grumman also conducted groundwater sampling in June, September and November 2003. These events were documented in two reports dated June 2002 and December 2003.

The Town of Oyster Bay intends to improve the Park grounds through construction of new facilities including an indoor ice-skating rink. The anticipated redevelopment activities will impact approximately 7 acres of the site. The Construction Area, as it is referred to, extends from the north border of the property in a southerly direction approximately central to the site. The construction area is shown on Figure 2. Although redevelopment activities have not been finalized, the construction of a new building measuring approximately 30,000-50,000 square feet is anticipated as well as upgrading of surrounding parking areas. The proposed redevelopment will require site excavation.

3.0 DESCRIPTION OF WORK COMPLETED

The purpose of the IRM field investigation was to characterize the nature and extent of contamination in both soil and shallow groundwater within the boundaries of the Construction Area. Potential contaminants for investigation included PCBs, VOCs, SVOCs, and metals (including hexavalent chromium and cyanide). Field investigation activities were based on the NYSDEC approved IRM Work Plan dated May 2005. A NYSDEC approved Quality Assurance Project Plan (QAPP) was included as part of the IRM Work Plan.

3.1 Geophysical Survey

A geophysical survey was conducted by NAEVA Geophysics Inc. throughout the Construction Area under the direction of H2M during the period of May 17 through May 20, 2005 and May 24 through May 26, 2005. The purpose of the geophysical survey was to delineate detectable buried utilities and significant subsurface anomalies in accessible areas located within the Construction Area planned for subsurface investigation. The results of the survey are depicted on a map with identified utilities and subsurface anomalies, included herein as Figure 3.

3.2 Soil Sampling Program

The field investigation identified within the Work Plan included a comprehensive soil quality investigation. Soil borings were advanced across the entire Construction Area on a grid with approximately 50-foot on-center node spacing. Each grid node was identified with an alpha-numeric code representing a letter for each row transect and a number for each column transect. Numeric columns were in an approximate north-south orientation. Results of previous site investigations were taken into account in establishing the sampling grid, selecting soil boring locations, and determining the soil boring depth and sampling intervals. Some deviations to the grid layout were made based on encountered field conditions and are summarized in Section 3.2.1. The revised grid layout and numbering system showing the actual boring locations employed during the IRM field investigation is shown in Figure 4.

The soil investigation was conducted under the direction of H2M during the period of May 26, 2005 through June 24, 2005, excluding weekends. The soil boring and sampling program included the advancement of shallow soil borings, i.e., grade surface to 10 feet below grade, and deep soil borings, i.e., grade surface to 60 feet below grade. A few select shallow soil borings were advanced to 20 feet below grade. As specified in the Work Plan, sampling was typically performed continuously in two-foot intervals from grade to 10 feet below grade. From 10 feet below grade to 60 feet below grade, sampling was performed in two-foot cores at 10 foot intervals, i.e. 18-20, 28-30, 38-40, etc.

A total of 141 soil borings were completed within the Construction Area including 107 shallow borings and 38 deep borings. Three of the shallow borings were advanced to 20 feet. The soil boring work was conducted utilizing Geoprobe® direct-push drilling methods for shallow borings and hollow stem auger (HSA) drilling techniques for deep borings provided by Universal Testing & Inspection Services of West Babylon, New York.

Shallow soil probes were advanced as 2-inch diameter by 4-feet long "macro-core" barrels fitted with a cutting shoe and disposable acetate liner. Soil samples from deep borings were retained using 2-foot split spoon samplers. Between sampling intervals, all non-disposable sampling equipment was decontaminated in accordance with the Quality Assurance Project Plan. Non-

disposable drilling equipment was decontaminated between boring locations. All collected soil samples were visually inspected, characterized and screened with a portable photoionization detector (PID) for evidence of contamination. Copies of soil boring logs are provided in Appendix A. All retained soil samples were analyzed for PCBs and RCRA metals, which were anticipated to be the primary contaminants of concern based on previous environmental investigations. At least one sample from each boring location was also analyzed for an expanded list of parameters including Target Analyte List (TAL) metals (including hexavalent chromium and cyanide), Target Compound List (TCL) VOCs and TCL SVOCs. In addition, blind duplicate, matrix/matrix spike duplicates, field blank and trip blank samples were collected and analyzed in accordance with standard QA/QC procedures. Analytical services were provided by H2M Labs following Contract Laboratory Protocols (CLP) for NYSDEC ASP Category B deliverables.

3.2.1 Deviations to Proposed Soil Sampling Program

The soil investigation program proposed in the May 2005 Work Plan identified 145 soil boring locations. As identified as a possibility within the Work Plan, the sampling grid was altered in some locations due to encountered field conditions including existing structures, trees and below grade utilities or suspect anomalies that could have impeded sampling. A summary of the sampling location deviations is provided in Table 3.2.1.

As noted in Table 3.2.1, due to the elimination of some soil borings, the total number of boring locations was reduced from 145 to 141. Soil borings within the skating rink area were eliminated from the IRM investigation. Based on information provided by the Town of Oyster Bay, it was determined that the refrigerant coils beneath the skating surface were spaced on 2-inch intervals. Considering that the short-term fate of the existing rink had not been determined at the time of the field investigation, drilling was not performed in this area due to the possibility of damage to the refrigerant coils from invasive drilling. Further evaluation of the ice rink design later revealed that drilling through the rink area could be performed in a manner that was protective of the refrigerant coils. This prompted a supplemental investigation to the IRM. Results of the supplemental IRM investigation will be reported under separate cover following completion.

3.3 Soil Vapor Sampling

A soil vapor sampling program was implemented to determine whether soil and/or groundwater contamination is producing significant levels of VOCs in the vadose zone, and evaluate the potential for current and future human exposure. The soil vapor sampling was performed under the direction of H2M on June 10, 17 and 23, 2005. Soil vapor samples were collected from 14 boring locations including D1, E3, E5, E13, G4, J1, N4, N7, E11, G11, H13, I3, I5 and J9. In all locations, soil vapor samples were collected at a depth of 10 feet below grade. Additionally, at boring locations G4, J1, N4, N7, H13 and J9, soil vapor samples were also collected at a depth of 52 feet below grade. A deeper sample was also collected at location D1. However, this sample was advanced to 58-60 feet rather than 52 feet. Location D1 was the first deeper soil vapor sampling location and was collected at 58-60 feet based on the Work Plan, which had assumed a groundwater elevation of approximately 60 feet below grade. It was subsequently determined and confirmed throughout the field investigation that the groundwater interface was typically encountered at approximately 54-55 feet below grade. The soil vapor sampling program also included the collection and analysis of an ambient sample for each field day that soil vapor samples were collected.

Soil vapor borings were advanced utilizing direct-push drilling methods. Samples were collected with a post run tubing system using Summa canisters fitted with flow restrictors to provide a sampling flow of not greater than 0.2 liters per minute. The tubing systems were discarded after each use. Each collected sample was submitted to Severn Trent Laboratories, Inc. (STL Burlington) in Colchester, VT and analyzed for Target Compound List VOCs via EPA Method TO-15.

3.4 Monitoring Well Installation and Sampling

A total of four groundwater monitoring wells were installed within the Construction Area under the direction of H2M during the period of June 22 through June 24, 2005 and June 27, 2005. The monitoring well locations are presented on Figure 4 and are identified as CAMW-1, CAMW-2, CAMW-3 and CAMW-4.

The monitoring well installation work was conducted utilizing a hollow stem auger drill rig provided by Fenley & Nicol Environmental Inc. of Deer Park, New York. Each well was constructed of 4" diameter Schedule 40 PVC piping with 20-feet of 0.01-inch slot screen in accordance with the Work Plan and utilizing generally accepted NYSDEC protocols for monitoring well installations. Each well was finished with a locking cap and flush mounted road box. Upon completion of the monitoring well installation work, each well was properly developed using Grundfos® submersible pumps in accordance with the Work Plan and generally accepted NYSDEC protocols. Copies of well construction diagrams are provided in Appendix B.

Groundwater samples were collected from each well on June 13, 2005 by H2M. The groundwater sampling was performed in accordance with US EPA 540/S-95/504 Low-Flow (Minimal Drawdown) Groundwater Sampling Procedure. Each groundwater sample collected was analyzed for PCBs, metals including hexavalent chromium, VOCs, SVOCs and cyanide. In addition, a blind duplicate, matrix/matrix spike duplicate, field blank and trip blank were collected and analyzed in accordance with standard QA/QC procedures.

3.5 Community Air Monitoring

In accordance with the Work Plan, a community air monitoring program (CAMP) was implemented for the duration of the IRM field investigation during all ground intrusive activities. The CAMP was based on the New York State Department of Health Generic Community Air Monitoring Plan as referenced in the approved project Work Plan and included regular monitoring of VOCs and particulates. Equipment utilized as part of the CAMP included portable photoionization detectors (Photovac Pro 2020) for VOCs and TSI Dust Traks for particulates. The TSI Dust Traks were fitted with environmental enclosures and visual alarm indicators.

Monitoring was performed at upwind and downwind locations from each drilling or sampling area, which were typically 30-50 feet away. The upwind or background measurements were recorded prior to the initiation of intrusive activity. All measurements were logged on pre-printed forms. Downwind measurements were recorded hourly. As recommended by the

NYSDOH, a threshold of 5 parts per million (ppm) over background was utilized for VOC measurements. At no point during the duration of the IRM field investigation activities did the VOC monitoring detect an airborne concentration exceedence of 5 ppm over background. In fact, no VOCs were detected while air monitoring for the duration of the IRM field investigation.

Particulates were monitored continuously during the field investigation although documented hourly on the pre-printed log forms. The NYSDOH recommends an initial airborne dust threshold of 100 micrograms per cubic meter ($\mu g/m^3$) for comparison of downwind to upwind airborne dust levels. The visual alarm indicators on the particulate monitors were programmed to alarm at 100 $\mu g/m^3$ to provide an early indication of possible dust migration. At no point during the IRM field investigation did the downwind airborne dust concentration exceed the upwind level by 100 $\mu g/m^3$. For the duration of the IRM field investigation, dust measurements in both upwind and downwind locations were typically between 10 and 60 $\mu g/m^3$.

In consideration of the community air monitoring results, it is H2M's opinion that no off-site receptors were adversely impacted by elevated airborne VOC or dust contaminants related to the IRM field work activities.

4.0 NATURE AND EXTENT OF CONTAMINATION

The IRM field investigation for the approximately 7-acre Construction Area included soil, soil vapor and groundwater sampling. The findings of the sampling program are provided within this section.

4.1 Standards, Criteria and Guidelines (SCG)

To assess the soil sampling analytical data, the laboratory results were compared to the Recommended Soil Cleanup Objectives (RSCOs), as presented in New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) #4046 entitled "Determination of Soil Cleanup Objectives and Cleanup Levels," April 1995. With regards to metals in soils, the TAGM RSCOs identify a specific

cleanup objective concentration for mercury, cadmium and chromium. All other metal contaminants are identified with "site background" or given "site background" as an option for the RSCO. In these cases, the upper range of the TAGM-identified Eastern USA Regional Background Concentration was used as the cleanup objective. For PCBs in soil, the RSCO is 1 mg/kg for surface soils and 10 mg/kg for subsurface soils. Considering the near and long-term potential use of the property, the more stringent guideline of 1 mg/kg was used as the cleanup objective for all soils to a depth of 10 feet below grade.

For assessment of groundwater sampling analytical data, the laboratory results were compared to the applicable NYSDEC Class GA groundwater and effluent standards as presented in 6 NYCRR Part 703; Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, amended August 1999.

With regards to soil vapor sampling and subsurface vapors, the State of New York has not promulgated specific standards, criteria or guidance values for concentrations of compounds in subsurface vapors, as reported in the New York State Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, February 2005 Public Comment Draft. However, the NYSDOH guidance document offers decision making matrices to serve as risk management tools for evaluating soil vapor entering buildings. Although the matrices were developed for trichloroethylene (TCE) and tetrachloroethylene (PCE), these matrices were considered when evaluating the soil vapor data collected as part of this investigation. As recommended within the NYSDOH guidance document, soil vapor sampling results were also evaluated individually, compared with background outdoor air levels and reviewed "as a whole" to identify trends and special variations in the data.

4.2 Soil Investigation Findings

The IRM soil investigation in the Bethpage Community Park Construction Area included 104 shallow soil borings advanced to 10 feet below grade, three soil borings advanced to 20 feet below grade and 38 deep soil borings advanced to 60 feet below grade. Three of the shallow borings, i.e., L6, M9 and N4, were advanced to 12 feet below grade, and one shallow boring, i.e., G4, was advanced to 14 feet below grade based on field screening results. A total of 773

soil samples were collected and analyzed. All collected samples were analyzed for PCBs and RCRA metals. Additionally, 153 samples were analyzed for an expanded list of parameters comprising TAL metals (including cyanide and hexavalent chromium), TCL VOCs, and TCL SVOCs. At least one sample per boring location was analyzed for the expanded list of parameters.

Analytical services were provided by H2M Labs, Inc., a New York ELAP approved and ASP certified laboratory. Analytical results were presented as a NYSDEC ASP Category B data package that documented the quality of the analytical work. As part of the soil sampling program, Quality Assurance/Quality Control (QA/QC) samples were collected including trip blanks, field blanks, blind duplicates, and matrix spike/matrix spike duplicates (MS/MSDs). A total of 19 trip blanks were analyzed equating to one sample for each field sampling day. A total of 45 field blanks, blind duplicates and MS/MSDs were collected.

Soil sampling results for PCBs, metals (including cyanide and hexavalent chromium), VOCs and SVOCs are presented in Tables 4.2.1, 4.2.2, 4.2.3 and 4.2.4, respectively. For identification purposes in Table 4.2.1, all sampling results with a PCB concentration greater than 1 mg/kg are identified in bold. The NYSDEC TAGM 4046 Recommended Soil Cleanup Objective (RSCO) is 1 mg/kg for surface soils and 10 mg/kg for subsurface soil samples. PCB concentrations measured across the Construction Area ranged from non-detectable to a high of 550 mg/kg at boring G7. Regardless of sampling depth, PCBs exceeded 1 mg/kg in 48 of the 141 boring locations, and exceeded 10 mg/kg in 10 of the 141 boring locations. A site plan showing all PCBs detected at concentrations above 1 mg/kg is provided as Figure 7.

Soil sampling results for metals are summarized in Table 4.2.2. Metal concentrations exceeding the NYSDEC RSCOs are identified in bold and included arsenic, barium, beryllium, cadmium, chromium, copper, iron, magnesium, mercury, nickel, selenium, and zinc although the predominant metals detected above RSCOs were arsenic, chromium, iron, mercury and zinc. A site plan depicting boring locations with metals detected at concentrations above their respective RSCOs is provided as Figure 6. As shown, metals were detected at concentrations above the RSCOs is nearly all boring locations.

Cyanide soil sampling results are also provided in Table 4.2.2. The NYSDEC TAGM 4046 does not identify a RSCO for cyanide considering the stability of cyanide is dependent on the chemical form. Cyanide was detected in approximately 18 boring locations. The highest concentrations of cyanide were 84.0 mg/kg at G3 (8-10), 23.4 mg/kg at I10 (6-8) and 14.4 mg/kg at G3 (8-10).

Soil sampling results for VOCs are summarized in Table 4.2.3. In general, VOCs were non-detectable in site soils with the exception of two boring locations near the southwestern boundary of the Construction Area. The volatile organics detected above their respective RSCOs are identified in bold in Table 4.2.3. At boring location I1, total xylenes were detected at a concentration of 3.3 mg/kg, exceeding the RSCO of 1.2 mg/kg. At boring location J1, 1,2-dichloroethene was detected at a concentration of 0.76 mg/kg, exceeding the RSCO of 0.3 mg/kg, and trichloroethene was detected at a concentration of 17.0 mg/kg, exceeding the RSCO of 0.7 mg/kg. Volatile organic compounds that exceeded their respective RSCOs are shown on a site plan in Figure 7.

Semi-volatile organic compound soil sampling results are summarized in Table 4.2.4. Within the table, compounds detected above the RSCOs are identified in bold. Semi-volatile organics were detected in 44 of the 141 boring locations above the RSCOs. The semi-volatile contaminants that exceeded their individual RSCOs were polycyclic aromatic hydrocarbons and included benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and dibenzo(a,h)anthracene. However, not all of these contaminants were detected at each location. The NYSDEC TAGM 4046 recommends a comparison of individual compounds with their respective RSCOs. A cumulative total SVOC concentration maximum of 500 mg/kg is also recommended, when individual contaminant concentrations are not known. Total SVOCs exceeded 500 mg/kg in one boring location, i.e., G6. A summary of the SVOC impacts detected above the RSCOs is shown on the site plan provided in Figure 7.

4.3 Soil Vapor Sampling Results

The IRM field investigation included soil vapor sampling in a total of 14 boring locations. The sampling locations were identified within the Work Plan and were selected based on historical information about the site and past environmental investigations. Soil vapor sampling locations included D1, E3, E5, E11, G4, G11, H13, I3, I5, J1, J9, N4 and N7. The soil vapor samples were all analyzed for TCL VOCs. The sampling results are summarized in Table 4.3.1.

As discussed in Section 4.1, the State of New York has not promulgated any standards, criteria or guidance values with regards to soil vapor concentrations. The soil vapor sampling results shown in Table 4.3.1 are compared with ambient/background outdoor air levels, which were collected on each day of soil gas sampling. As shown, soil vapor concentrations exceeded ambient volatile organic compound conditions in all locations. Detected organics were predominantly 1,2-dichloroethene, trichloroethene and tetrachloroethene. The highest concentrations of these organics in soil vapor were detected in decreasing order at locations J9, G4 and J1. Dichlorodifluoromethane (freon-12) was also detected in the soil vapor sampling locations in the vicinity of the existing ice rink. The volatile compounds detected in the soil vapor were generally not identified at significant concentrations in local soils. As previously reported in Section 4.2, volatile organic compounds, specifically comprising xylenes, trichloroethene and 1,2 dichloroethene, were only detected at concentrations above NYSDEC RSCOs at boring locations I1 and J1. Dichlorodifluoromethane (freon-12) was not detected during soil sampling. It should be noted that dichlorodifluoromethane was not an analyte in the Target Compound List of parameters (NYSDEC ASPB 10/95 8260B) for VOCs. However, if present, this compound would have been identified as a tentatively identified compound (TIC).

The soil vapor sampling investigation determined that soil vapor concentrations were typically higher at the deeper sampling depth in locations where samples were collected at a shallow and deep depth, i.e., 10 feet and 52 feet below grade. For chlorinated compounds identified in the soil vapor, it is assumed that groundwater, or historical groundwater impacts, are the source of contamination considering that the soil vapor concentrations were higher at the deeper sampling depths and that the field investigation did not identify significant VOC contamination in the soil.

4.4 Groundwater Sampling Results

The IRM field investigation for the Construction Area at the Bethpage Community Park included the installation and sampling of four monitoring wells. The wells are identified as CAMW-1, CAMW-2, CAMW-3 and CAMW-4. Well installation and sampling details were provided in Section 3.4. Each well was sampled for PCBs, TAL metals (including cyanide and hexavalent chromium), VOCs and SVOCs. Summaries of the analytical results for these analyses are provided in Tables 4.4.1 through 4.4.4.

As shown in Table 4.4.1, no PCBs were detected in any groundwater samples. Metal sampling results indicated only sodium was detected in each monitoring well location at concentrations above the NYSDEC Class GA Groundwater Quality Standards. Detected sodium concentrations ranged from 30,500 µg/L to 105,000 µg/L compared with the Class GA Standards of 20,000 µg/L. No other metals were detected above listed Class GA Standards. Due to its relatively benign nature, sodium impacts are not considered significant to this IRM program.

Volatile organic compound sampling identified the presence of 1,2-dichloroethene and trans-1,3 dichloropropene in each monitoring well. The organic compound 1,2-dichloroethene was detected at concentrations ranging from 20 to 1400 µg/L compared with the Class GA Standard of 5.0 µg/L. The highest concentration of 1400 µg/L was detected in monitoring well CAMW-3, which is located in close proximity to boring location J9. As discussed in the preceding section, soil vapor sampling identified the highest concentration of 1,2-dichloroethene at boring location J9. In addition, the soil vapor concentration of 1,2-dichloroethene detected at 52 feet below grade was approximately ten times higher than the concentration detected at 10 feet below grade. It should be noted that 1,2-dichloroethene was not identified in the soil sample collected at boring location J9 at a depth of 6-8 feet below grade.

The compound trans-1,3 dichloropropene was detected in the monitoring wells at concentrations ranging from 5 to 170 µg/L compared with a Class GA Standard of 0.4 µg/L. The highest concentration of trans-1,3 dichloropropene was detected at monitoring well CAMW-2, located at the southern boundary of the Construction Area.

Based on the identification of dichlorodifluoromethane (freon-12) in select soil vapor sampling locations, TICs were reviewed for the VOC groundwater sampling results. Dichlorodifluoromethane was not detected in any of the monitoring well locations. Chlorodifluoromethane (freon-22) was detected at a concentration of 200 µg/L at monitoring well CAMW-4, located on the south side of the existing skating rink. Chlorodifluoromethane was not detected in monitoring wells CAMW-1, CAMW-2 or CAMW-3.

As summarized in Table 4.4.4, analytical results for SVOCs indicate that all compounds were present at concentrations below their respective method detection limits at each of the four monitoring wells.

Upon completion of the monitoring well installation activity, a monitoring well survey was conducted in late June 2005. The well survey included each of the four new wells installed as part of the IRM field investigation in order to more accurately define the site specific groundwater flow direction within the Construction Area. Results of the well survey and associated groundwater contours are depicted on Figure 8 (Construction Area IRM Investigation Potentiometric Groundwater Surface Map).

Based upon the groundwater contours depicted on Figure 8, the shallow groundwater flows in a south-southeasterly direction beneath the designated Construction Area at the Bethpage Community Park. To assess any potential impacts to the shallow groundwater underlying the Construction Area from possible contaminant source areas located on the subject parcel, the groundwater monitoring well analytical data was compared. Based on the groundwater contours in Figure 8, CAMW-1 may be considered as an upgradient well with respect to CAMW-2. Monitoring wells CAMW-3 and CAMW-4 are not as suitably located for comparison with upgradient well CAMW-1.

The volatile organic compounds 1,2-dichloroethene and trans-1,3 dichloropropene were detected in both monitoring well CAMW-1 and monitoring well CAMW-2. Concentrations of both organic compounds were approximately 10 times higher at the downgradient monitoring well

location. This may indicate a possible source, or historical source, of contamination within the confines of the Park, although no significant source areas were identified in the Construction Area. Trans-1,3-dichloropropene was detected in one sample, i.e., boring G-4 (12-14 feet below grade) at a concentration of 12 µg/kg. The compound 1,2-dichloroethene was detected in four boring locations; Detected concentrations were 100 µg/kg at G4 (2-4 feet), 12 µg/kg at I1 (18-20 feet), 160 µg/kg at I2 (2-4 feet), and 760 µg/kg at J1 (48-50 feet). The NYSDEC RSCO for 1,2-dichloroethene is 300 µg/kg. Therefore, the concentration of 1,2-dichloroethene exceeded the RSCO at boring J1. Both organic contaminants detected in the groundwater at the upgradient and downgradient wells were also detected at low concentrations at boring location G4, which is situated upgradient of well CAMW-2. The concentration of 1,2-dichloroethene at G4 (2-4 feet) was 100 µg/kg. This concentration is less than the RSCO of 300 µg/kg.

In assessing analytical data for metals, only sodium was detected in any well at concentrations above the NYSDEC Class GA Groundwater Standards. The concentration of sodium was detected at 59,800 µg/l in well CAMW-2, which exceeds the NYSDEC Class GA Groundwater Standard of 20,000 µg/l and the concentration detected at upgradient well CAMW-1 of 30,500 µg/l. Sodium, however, is not typically considered a significant environmental concern.

5.0 QA/QC SAMPLING & DATA VALIDATION

This section summarizes the quality assurance/quality control (QA/QC) procedures used during the field investigation, data validation results and data usability.

5.1 Field Investigation QA/QC

QA/QC procedures for the field investigation activities as well as all laboratory work were presented in the NYSDEC approved Work Plan. The purpose of establishing and following strict field and laboratory specific procedures was to ensure that the data collected was precise, accurate, representative, complete and comparable.

The field QA/QC procedures included the use of specially developed forms and logs for the collection of repetitive data such as soil and groundwater sampling, and community air monitoring. In addition, QA/QC procedures stipulated in the Work Plan such as Chain-of-Custody procedures, field measurement requirements, QA/QC sample collection, etc., were followed.

In order to meet project-specific Data Quality Objectives (DQOs), various types of QA/QC blank and duplicated samples were collected and analyzed. These QA/QC samples included trip blanks, field blanks and blind duplicate samples.

Trip Blanks

Trip blanks containing distilled and de-ionized water from the analytical laboratory were transported to the site and returned without opening. Trip blanks serve as a check for potential contamination from volatile organic compounds that may originate from sample transport, shipping and/or from site conditions. Trip blanks were collected during the field investigation at the Construction Area at the rate of one per day. All trip blanks were analyzed for VOCs. The analytical results are summarized in Table 5.1.1. As shown, no VOCs were detected in any trip blank. Therefore, it is unlikely that any of the samples collected during the field investigation were impacted by sample transport and shipping.

Field Blanks

Field blanks, also identified as equipment blanks, were used to determine if field sampling or sampling equipment decontamination procedures resulted in cross-contamination of site samples. Field blanks were collected at a rate of one per sample delivery group (SDG, i.e., up to 20 samples) by pouring distilled and deionized water through or over the sampling equipment following cleaning. Field blank samples were analyzed for PCBs, TAL metals including hexavalent chromium and cyanide, TCL VOCs and TCL SVOCs. The field blanks were collected during soil sampling, which was performed by split-spoon sampling or direct-push drilling core barrel sampling, and during groundwater sampling.

The analytical results for field blanks were reviewed by the independent data validators and are reported in the Data Usability Summary Reports. As reported in the data validation reports, in some cases, select analytes were found in the field blanks at concentrations between the Contract Required Detection Limit (CRDL) and the Instrument Detection Limit (IDL). These very low concentrations are not required to be noted in the data validation summary tables and do not affect the end use of the data. Therefore, it can be concluded that field decontamination procedures were effective and there are no concerns with regards to cross contamination impacting the analytical results of the samples.

Blind Duplicates

Blind duplicate samples were utilized as an additional QA/QC measure to assess the accuracy and repeatability of field procedures and laboratory analytical procedures. Duplicate samples were collected and labeled with a fictitious identifier known only to the samplers and those responsible for data interpretation. The analytical laboratory was not aware of the precise sampling location. Field blanks were submitted to the analytical laboratory in an identical manner as all other samples, and were documented on the chains of custody. Sample collection times were not provided on the chains of custody for the blind duplicate samples.

Blind duplicate samples were analyzed for PCBs and RCRA metals. Analysis of the blind duplicate samples did not include the expanded list of metals (i.e., TAL metals), cyanide, hexavalent chromium, VOCs or SVOCs, as specified in the NYSDEC approved Work Plan. All soil samples collected during the field investigation were analyzed for PCBs and RCRA metals. The expanded list of analytical parameters was reserved to a minimum of one sample per boring location based on field screening results. Analysis of the blind duplicates for the expanded list of parameters would have reduced the effective "blind" nature of these duplicate samples.

Blind duplicate sampling results for PCBs and RCRA metals are summarized in Tables 5.1.2 and 5.1.3, respectively. The analytical results for the blind duplicates are provided along with the comparable duplicate sample. As shown, the blind duplicates are in general agreement with the comparable sample with an acceptable correlation, thereby, indicating the analytical results are precise, accurate, representative and comparable.

5.2 Data Validation

In accordance with the Work Plan, all of the CLP analytical data packages and results generated as part of this investigation underwent independent data validation. A total of 45 analytical data packages or sample delivery groups (SDGs) were generated as part of the soil investigation, and one sample delivery group (SDG #46) was generated during groundwater sampling. Analytical services for soil and groundwater samples were provided by H2M Labs, Inc., a New York ELAP approved and ASP certified laboratory. Soil vapor sampling results were provided as two data packages by Severn Trent Laboratories (STL Burlington).

Independent data validation services were provided by Data Validation Services (North Creek, NY) and Ms. Nancy Potak (Greensboro, VT). Methodologies utilized were those of the 1995 NYSDEC ASP. The data usability summary reports for the SDGs are included in Appendix C.

As per NYSDEC CLP procedures, the concentrations and data qualifiers shown on the summary analytical tables referenced in Section 4.0 have been edited to reflect minor recommendations made during the validation process. The analytical results presented in the data summary tables report validated data, which are applicable for use in health-based risk assessments. The data validation was performed following NYSDEC Analytical Services Protocol (ASP) guidelines.

6.0 HUMAN EXPOSURE ASSESSMENT

The purpose of this exposure assessment is to qualitatively evaluate the contaminants of concern and the affected media with respect to potential exposure pathways and receptors for human health. It should be noted that this assessment is performed to evaluate the potential for exposure routes to be present in order to facilitate the development of a remedial action plan that adequately addresses the identified potential exposure routes. This assessment is not meant to infer the past or present human exposure to the contaminants of concern or affected media.

For the Construction Area within the Bethpage Community Park, the following exposure pathways were evaluated:

- Ingestion of contaminated soil.
- Inhalation of vapors and/or dust.
- Direct contact with potentially contaminated surface runoff.
- Ingestion of contaminated groundwater.
- Dermal contact with contaminated soils.
- Dermal contact with contaminated groundwater.

Potential human receptors in the vicinity of the site include:

- Visitors to/workers at the site.
- Residents that live in the area.
- Construction workers involved with remedial activities or site redevelopment activities.

The following conservative scenario assumptions were made in the qualitative exposure pathway analyses. It should be noted that these assumptions are for the purposes of the exposure assessment and do not infer that the identified circumstances are occurring or have occurred in the past.

- Contaminated soil in contact with groundwater and contaminants in soils released to groundwater.
- Contaminated unsaturated soils releasing fugitive dust into the atmosphere during excavation activities.
- Individuals who visit or work at the property coming into contact with potentially contaminated on-site surface and unsaturated-zone soils.
- Remedial efforts exposing potentially contaminated soils and groundwater on and off of the property.

6.1 Exposure and Pathway Overview for the Site

To evaluate potential exposures to the site in a qualitative fashion, various exposure scenarios were classified in terms of the general release mechanisms including:

1. Transport of soil impacts to groundwater.

2. Volatilization.
3. Erosion producing dust during remedial measures.
4. Direct contact to soil and potentially contaminated groundwater.
5. Water runoff.

Direct exposures to the chemicals of concern from the above-referenced mechanisms could potentially occur in the following ways:

1. Ingestion of contaminated soil.
2. Inhalation of vapors from volatilization of soil contaminants or from soil vapor.
3. Inhalation of potentially contaminated dust during remedial measures or construction.
4. Direct contact with potentially contaminated runoff water.
5. Ingestion of contaminated groundwater.
6. Dermal adsorption of contaminants via direct contact with contaminated soils and groundwater.

Potential exposure pathways are examined for functionality and completeness as follows:

Functional Exposure Pathways – A functional pathway requires that a contaminant source, release mechanism and transport mechanism be present. If any of these three components is absent, the pathway is considered nonfunctional.

Complete Pathway – A complete pathway requires a functional exposure pathway, potential receptors to the exposure and an exposure/uptake route. An exposure is considered incomplete and the risks qualitatively low if one or more of these components are missing.

6.1.1 Exposure Pathways

This section provides an evaluation of the five exposure pathway components and their status with respect to the subject site. The evaluation is performed to determine whether the exposure pathways are considered functional, i.e., present or potentially present at the subject site. It should be noted that a functional exposure pathway does not indicate the presence of an actual

exposure hazard. A functional exposure pathway requires additional conditions to be present in order to be considered 'complete,' i.e., potential receptors and an uptake route.

1. Ingestion of Contaminated Soil

Based upon the review of the soil analytical data presented in Section 4.0, PCBs, metals (predominantly arsenic, cadmium, chromium, copper, mercury and zinc), and select polynuclear aromatic hydrocarbons (PAHs) were detected above NYSDEC cleanup guidelines (i.e., RSCOs) in the on-site unsaturated-zone soils resulting in a contaminant source. These contaminants were also detected in on-site surface soils. Subsurface impacted soils could also be brought to the surface of the site during excavation activities where they could be potentially ingested. Therefore, this exposure pathway is considered functional.

2. Inhalation of Vapors

As presented in Section 4.0, contamination within the Construction Area is predominantly due to PCBs, metals and select polynuclear aromatic hydrocarbons. These contaminants are not volatile at standard temperatures and pressures. Some VOC contamination was identified in site soils and was predominantly located along the western portion of the Construction Area. The potential exists for a release of the VOC-type contaminants in the form of vapors. Soil vapor sampling confirmed the presence of elevated concentrations of contaminants in the soil vapor. Therefore, there is a contaminant source, release mechanism (i.e., volatilization of VOCs from impacted soils) and a potential transport mechanism (i.e., airborne VOC vapors present on the site). The potential for human inhalation of vapors from on-site contaminated soils is considered functional.

3. Inhalation of Dust during Remedial Measures

As presented in Section 4.0, PCBs, metals and select polynuclear aromatic hydrocarbons were detected in on-site soil samples above NYSDEC concentrations of concern. Therefore, this exposure pathway is considered functional due to a contaminant source; a release mechanism (contaminants present in the near-surface soil samples) and a transport

mechanism (identified contaminants released during potential near-surface excavation activities).

4. Direct Contact with Potentially Contaminated Runoff Water

The majority of the Construction Area is developed with buildings and parking areas. Stormwater in these areas is conveyed through drainage systems. Remaining areas of the Construction Area are unpaved but covered with grass that permits stormwater infiltration into the subsurface. There is typically no ponding of stormwater on the unpaved areas. Therefore, the potential for human exposure to potentially contaminated site runoff is considered low and this exposure pathway is considered nonfunctional due to a lack of a contaminant source.

5. Ingestion of Contaminated Groundwater

There are several public water supply wells owned and operated by the Bethpage Water District in the vicinity of the site. Due to documented VOC contamination in area groundwater by others, all public water supply wells in the vicinity of the site are tested for contaminants and treated for organic compounds. Groundwater sampling during this investigation confirmed VOC contamination in on-site groundwater.

Although this exposure pathway contains a documented contaminant source (VOC contaminated groundwater) and a transport mechanism (hydrogeologic flow of contaminated groundwater), the ingestion of contaminated groundwater exposure pathway will not be considered functional for the purpose of this effort due to engineering controls already in place in the local water supply infrastructure, the off-site nature of the pathway, and the fact that remediation of the impacted groundwater is being addressed by others under a separate Order on Consent with the NYSDEC.

6. Dermal Adsorption of Contaminants via Direct Contact with Contaminated Soil

As discussed in previous subsections, PCBs, metals and select polynuclear aromatic hydrocarbons were detected in on-site soil samples above NYSDEC concentrations of concern. Therefore, this exposure pathway is considered functional due to the presence of a

contaminant source, a release mechanism (contaminants present in the near-surface soil samples) and a transport mechanism (contaminants released during potential near-surface excavation activities).

7. Dermal Adsorption of Contaminants via Direct Contact with Contaminated Groundwater

Volatile organic compounds were detected in groundwater samples above NYSDEC concentrations of concern. However, as reported above, an infrastructure is already in place for treatment of the local water supply. Therefore, this exposure pathway is not considered functional for the purpose of this effort.

6.1.2 Complete Pathway

A complete pathway requires a functional exposure pathway, potential receptors to the exposure and an exposure/uptake route. As indicated in Section 6.1.1, there are four functional exposure pathways with respect to human health that will be evaluated in this section including:

1. Ingestion of contaminated soil.
2. Inhalation of vapors from volatilization of soil contaminants.
3. Inhalation of potentially contaminated dust during remedial measures or construction.
4. Dermal adsorption of contaminants via direct contact with contaminated soils.

This section of the human exposure assessment details potential receptors and exposure/uptake routes.

Visitors to/Workers at the Site

The potential for visitors and/or workers on the site to be exposed to site-related contaminants includes:

- Ingestion of on-site contaminated soils - This pathway is potentially completable for on-site visitors and/or workers due to the presence of impacted unsaturated-zone soils at the site.
- Inhalation of vapors – Potential exists for on-site visitors/workers to be exposed to VOC vapors emanating from impacted soil piles during future remediation or construction

excavation activities. Potential exists for future site workers or visitors to be exposed to adverse indoor air quality from permeation of contaminated soil vapor.

- Inhalation of dust - Potential exists for on-site visitors/workers to be exposed to airborne dust impacted by PCBs, metals and select organic aromatics from future remediation or construction excavation activities. Potential exists for visitors to be exposed to dust if recreation activities involve disturbing the surface soils.
- Dermal adsorption of contaminants via direct contact with contaminated soil - Potential exists for workers to be exposed to contaminated unsaturated soils during on-site excavation activities. As with inhalation of dust, potential exists for visitors to be exposed to dust if recreation activities involve disturbing the surface soils.

Residents Who Live in the Area

The potential for residents who live in the area of the site to be exposed to site-related contaminants by potentially completable functional pathways includes:

- Ingestion of contaminated onsite soil by residents – No residents live within the Park limits.
- Inhalation of vapors for residents – The potential exists for an inhalation exposure for residents to vapors that may be present during remediation or construction activities that involve subsurface excavation activities. However, such activities would involve a community air monitoring program that would greatly reduce any potential vapor exposure hazard to residents.
- Inhalation of potentially contaminated dust during remedial activities for residents – Fugitive airborne dust from surface and subsurface soils from the site would likely be encountered during remediation or construction activities that involve subsurface excavation activities. Such activities incorporate mitigation measures that reduce or eliminate fugitive dust. In addition, during any such activity a community monitoring program would be initiated that would greatly reduce the likelihood of dust exposure to residents.

- Dermal adsorption of contaminants via direct contact with contaminated soil – Residents are not likely to be in direct contact with impacted soil from the site, unless visiting the Park (See visitors/workers at the Site above).

Construction Workers

Construction workers could potentially be exposed for short periods of time to contaminants of concern during site remediation or construction activities. However, all work should be performed in accordance with a NYSDEC-approved Health and Safety Plan (HASP), with knowledge of site conditions, and while utilizing appropriate personal protective equipment, as specified in the HASP. Therefore, the qualitative risk is considered low for construction workers.

6.2 Toxicity Assessment

Of the contaminants identified at the subject site, the constituents identified at the most significant concentrations include PCBs, metals (arsenic, cadmium, chromium, copper, mercury and zinc) and select PAHs (benzo(a)anthracene, benzo(a)pyrene, and chrysene).

PCBs are a group of highly toxic chlorinated industrial chemicals that have multiple applications including use as dielectrics, coolants and lubricants in electrical transformers and other electrical equipment. PCBs refer to a family of chemical compounds formed by the addition of chlorine or multiple chlorine atoms to the biphenyl (C12H10) molecule. Toxic effects of PCB exposure in humans include liver disease, immune function impacts and increased cancer risk.

Metals detected in site soils above NYSDEC guidance values predominantly included arsenic, cadmium, chromium, copper, mercury and zinc. Arsenic (As) is a common metal that may be sourced from coal combustion, pesticides, fungicides or paints. Human health exposure to low levels of arsenic may result in stomach ache, nausea, vomiting and diarrhea. Long term exposure can result in skin changes, neurological effects (headaches, vision problems) and behavioral changes. Arsenic is also listed as a suspect human carcinogen.

Cadmium (Cd) is considered a heavy metal that can cause damage to all types of human body cells. Prolonged accumulation of cadmium can cause nervous system and immune system effects, emphysema and cancer. Chromium (Cr) is a metal that may be present in trivalent (Cr^{3+}) or hexavalent (Cr^{6+}) forms. The trivalent chromium is not as readily absorbed by the human body and, therefore, not generally considered as toxic. Human health effects for respiratory and dermal exposure to chromium include nasal irritation, nasal ulcers, and perforation of the nasal septum at higher doses. Chromium is also suspected to increase cancer risk during inhalation exposure.

Copper (Cu) is an essential element required by the body for normal physiological processes; however, increased copper exposure can have adverse toxicity effects. Copper absorption occurs predominantly through the lungs, gastrointestinal tract and skin. Acute toxicity of ingested copper is characterized by abdominal pain, diarrhea, vomiting and a metallic taste in the mouth. Continued ingestion of copper compounds can cause cirrhosis and other debilitating liver conditions. Inhaled copper dust or fumes can produce eye and respiratory tract irritation, headaches, vertigo, drowsiness, chills, fever, aching muscles and discoloration of the skin and hair.

Mercury (Hg) is a heavy metal with known toxicity effects in humans. Mercury absorbed through the gastrointestinal tract is distributed throughout the body but tends to concentrate in the brain and kidneys. Inhaled mercury vapor is distributed primarily to the central nervous system and the kidneys. Ingestion of mercury inorganic salts may cause severe gastrointestinal irritation, renal failure, and death with acute lethal doses. Inhalation of mercury vapor may cause irritation of the respiratory tract, renal disorders, central nervous system effects characterized by behavioral changes, peripheral nervous system toxicity, renal toxicity and death.

Zinc, along with copper, is an essential element required by the body. Zinc is essential for adequate membrane function and protein synthesis. Adverse human health effects from large intakes of zinc include anemia, damage to the pancreas, and a lowering of the level of lipoprotein cholesterol.

Benzo(a)anthracene, benzo(a)pyrene, and chrysene are part of a class of chemicals known as polycyclic hydrocarbons or polynuclear aromatic hydrocarbons (PAHs). PAHs are suspect carcinogens. Epidemiological studies have reported an increase in lung cancer in humans exposed to coke oven emission, roofing tar emissions, and cigarette smoke. Each of these mixtures contains a number of PAHs

Based upon the toxicity assessment provided above, chronic exposure to the contaminants reported on-site may cause carcinogenic effects. Additionally, several negative health effects may occur due to acute exposures to high concentrations of these compounds. However, the concentration levels reported at the site are not likely to cause acute overexposure effects.

6.3 Risk Characterization

Based upon potentially complete functional pathways and exposure/uptake routes, a qualitative risk characterization per functional exposure pathway and potentially exposed receptors was prepared. As indicated in Table 6.3.1, the potential receptor populations comprising Visitors/Workers at the Site were identified to have potential risk from ingestion of contaminated soil, inhalation or vapors, inhalation of contaminated dust during remediation activities and dermal absorption of contaminated soil. All other potential risks for identified receptors are considered minor.

The risk characterization is based on the Exposure Assessment results and conservatively identifies the potential exposure risks at the Site. Past and/or present exposures to site contaminants through the identified exposure pathways are not assumed or insinuated.

7.0 REMEDIAL ACTION PLAN

7.1 Site Investigation Summary

The site investigation, which consisted of soil, groundwater and soil vapor sampling, identified the nature and extent of contamination within the Construction Area at the Bethpage Community Park. Results of the site investigation were presented in Section 4.0. Contaminants including

PCBs, metals, VOCs and select SVOCs were identified at levels exceeding NYSDEC guidance concentrations, i.e., Technical and Administrative Guidance Memorandum #4046 Recommended Soil Cleanup Objectives. The predominant metals identified included arsenic, cadmium, chromium, copper, iron, mercury and zinc. Barium and nickel were also identified in a few locations above NYSDEC RSCOs. VOCs identified above NYSDEC guidance values included xylenes, 1,2-dichloroethene, and trichloroethene. SVOCs identified above NYSDEC guidance values were benzo(a)anthracene, benzo(a)pyrene and chrysene.

PCB contamination, as summarized in Table 4.2.1 and shown on Figure 6, appears to be predominantly located in the northern and western central areas of the Construction Area. The northern area is currently a picnic area within the Community Park. The western central area, which had the highest amount of PCB impacts, comprises parking areas, basketball courts, shuffleboard courts and bocce ball courts. Other PCB contamination was interspersed in the southern and northeastern portion of the Construction Area. PCBs shown on Figure 6 include all concentrations above 1 mg/kg. The NYSDEC RSCO for PCBs is 1 for surface soils and 10 for subsurface soils. PCBs exceeded the RSCO of 1 for surface soils in 30 locations. Subsurface PCB concentrations were above 10 mg/kg in approximately 8 locations. As previously reported, the soil investigation included soil borings to 10 feet below grade (20 feet in three locations) and a fewer number of borings to 60 feet below grade. In the samples collected, PCB impacts were not detected below 18-20 feet below grade. As reported in Section 4.4, PCBs were not detected in site groundwater. The highest concentration of PCBs was detected at boring location G7 at a concentration of 550 mg/kg.

Soil investigation results for metals are summarized in Table 4.2.2 and shown on Figure 5. Metal contamination, i.e., metals detected at concentrations above the NYSDEC RSCOs, was fairly evenly spread across the Construction Area. As reported, the predominant metals identified included arsenic, cadmium, chromium, copper, iron, mercury and zinc. At depths below approximately 10 feet, the metals detected above the NYSDEC RSCOs were typically arsenic, iron, and, in fewer locations, chromium. The metal contaminants detected in the site soils were not identified in the groundwater samples collected as part of the site investigation.

Cyanide sampling results were also summarized in Table 4.2.2. Cyanide was detected in approximately 18 boring locations. The highest concentrations, ranging between 4 and 84 mg/kg, were detected at D6 (2-4), G3 (8-10), G4 (8-10), I1 (18-20), I10 (6-8) and K9 (6-8).

The site investigation identified VOC contamination at concentrations above the NYSDEC RSCOs in only two locations, i.e., I1 and J1, which are located on the western central portion of the Construction Area near the baseball field. The VOC sampling results are summarized in Table 4.2.3 and shown on Figure 7. The VOCs identified above the NYSDEC guidance values included xylenes, 1,2-dichloroethene, and trichloroethene. Of these, only 1,2-dichloroethene was identified in the groundwater samples collected as part of the site investigation. As previously discussed, chlorinated organics are known groundwater contaminants in the general vicinity of the subject site.

Semi-volatile organics were identified above NYSDEC RSCOs within the Construction Area in the northern area, currently occupied by the picnic area, the western central area, currently occupied by basketball, shuffleboard and bocce ball courts, the south central area, currently a parking area, and the southern portion, also a parking area. Contaminants were PAH compounds (benzo(a)anthracene, benzo(a)pyrene and chrysene) and were predominantly detected in the soils from zero to 4 feet below grade. SVOCs were not identified in the groundwater samples collected as part of this site investigation.

The site investigation included soil vapor sampling in select locations across the Construction Area. Soil vapor samples were typically collected from 10 feet below grade and 52 feet below grade. During the site investigation, groundwater was typically encountered at approximately 54 feet below grade. The soil gas sampling results were discussed in Section 4.3 and summarized in Table 4.3.1. Volatile compounds detected during the soil vapor sampling predominantly included 1-2-dichloroethene, trichloroethene, tetrachloroethene and dichlorodifluoromethane (Freon-12). The dichlorodifluoromethane was only identified in soil vapor samples collected in the vicinity of the ice rink. Soil vapor concentrations were generally higher in the samples collected at the deeper depths. With regards to the chlorinated compounds, it is assumed that the groundwater, or historical groundwater impacts, serves as the

source of contamination for the soil vapor in the areas sampled considering that the concentrations were higher near the groundwater table and that the soil investigation did not identify these volatile compounds in a significant concentration in the soil.

As indicated in Section 3.2.1 of this report, a supplemental investigation has been implemented which will include additional data collection in the vicinity of the ice rink. The results of this investigation will be utilized to further characterize the soil in this area and may result in revisions to the Remedial Action Plan.

7.2 Remedial Action Objective

The site specific remedial action objective is to identify a remedial strategy that is protective of human health and the environment, and meets the intended objectives of the IRM. Protection of human health may be achieved by eliminating the contaminants of concern, reducing the contaminant levels or by minimizing the potential exposure taking into consideration the proposed future use and potential future use of the site. Remedial action objectives that are protective of the environment typically seek to preserve or restore site soils and groundwater to target cleanup levels.

The remedial action goal for this site will be to establish a general response action that is protective of human health considering the intended future use and potential future use of the property, as well as protective of the environment. Although secondary to human health and the environment, a remedial action objective should be fiscally prudent and logistically attainable.

7.3 Proposed Remedial Strategy

The Interim Remedial Measure site investigation was conducted to characterize the subject area conditions and to provide suitable data to support the development of a remedial action plan. The remedial action plan proposed herein was developed to be protective of human health, protective of the environment, and to facilitate redevelopment of a portion of the Bethpage Community Park by the Town of Oyster Bay. Past environmental investigations conducted at the Bethpage Community Park, on behalf of Northrop Grumman, documented contamination within the designated 'Construction Area.' Investigative results documented herein provide

significantly greater detail relative to the impacts to the subject area. Near-term plans for redevelopment at the site include the construction of a new indoor ice skating rink in the vicinity of the existing outdoor rink. Associated with the redevelopment will be reconfiguration of the site access and parking areas. In developing a remedial strategy, the near-term future use and potential future use of the subject area were considered. In order to meet these needs, and the objectives of the IRM, the following criteria have been applied in order to develop a remediation strategy:

Remedial Strategy Criteria

1. Entire subject site area, the limits of which are defined by the Consent Order, should be rendered clean to a suitable depth below grade so as to allow for unrestricted future use of the site. This will allow the town to upgrade, redevelop, or augment the site as they deem appropriate, while not having to encounter contaminated materials.
2. Areas contaminated by historical fill material should be remediated.
3. Identified contaminants below the depth determined to support Item 1 above should also be remediated if determined to have the potential to negatively impact groundwater quality, soil vapor or public health.

In developing a remedial strategy, we have considered the nature and extent of contamination documented herein, exposure assessment results, proposed site redevelopment plan and continued future site use for recreational purposes, the objectives of the IRM and the above listed criteria. The above criteria and the resulting strategy do not address groundwater impacts directly as these impacts are being investigated more fully and will be remediated by Northrop Grumman under a separate Order on Consent with NYSDEC. Accordingly, we propose the following remedial strategy:

Proposed Remedial Strategy

1. Remediate all impacted soils within the confines of the Consent Order defined site to NYSDEC recommended soil cleanup objective concentrations to a depth of ten feet below grade. NYSDEC cleanup objectives for the purposes of this strategy initiative are equivalent to the Recommended Soil Cleanup Objectives for surface soils identified in

the latest version of NYSDEC Technical and Administrative Guidance Memorandum 4046. A depth of ten feet below grade was chosen because most typical construction/development activity would not require deeper excavation.

2. Remediate historical fill areas to NYSDEC recommended soil cleanup objective concentrations for subsurface soils. For the purpose of this initiative, historical fill areas are defined as areas identified by area photography as being potential release areas and confirmed as fill areas (debris and non-native soils) through boring log information. In addition, areas identified through boring logs to include fill material even if not suspected though aerial photography will be subject to this initiative.
3. Remediate all source areas affecting groundwater quality or soil vapor to NYSDEC recommended soil cleanup objective concentrations for subsurface soils. For the purpose of this initiative, source areas are defined as impacted soils that are currently affecting groundwater or soil vapor quality, or that have the potential to negatively affect groundwater or soil vapor quality. This potential is a function of the nature of the contaminant, the contaminant concentration, the location of the impact, and any mitigating factors.
4. Any identified impacts that are subject to more than one of these strategic initiatives will be remediated to meet the more conservative (i.e., more comprehensive cleanup) initiative.

The first criteria of the proposed remedial strategy provides for remediation of all contaminated surface and near surface soils to a depth of ten feet. The extent of remediation is to be based on the NYSDEC RSCOs although for PCBs, the RSCO cleanup objective of 1 mg/kg for surface soils is recommended as the cleanup guideline to a depth of 10 feet. Remediation based on these cleanup guidelines will enable future site use and redevelopment to conventional excavation depths with minimal exposure concerns, including revised surface grade elevations. For metals, the NYSDEC RSCOs identify a precise value or, in some cases, the Site Background concentration. For metals identified with Site Background as the RSCO, the upper range of the Eastern USA Regional concentration will be used as the cleanup objective.

The second criteria of the remedial strategy provides for remediation of contaminated fill areas identified from historical records, such as aerial photographs or site records, and identified from soil classification information obtained during the IRM field investigation. These areas will be remediated to meet NYSDEC recommended soil cleanup objective concentrations for subsurface soils. For metals identified with Site Background as the RSCO, the upper range of the Eastern USA Regional concentration will be used as the cleanup objective.

The third criteria of the remedial strategy provides for remediation of all source areas (impacted soils) affecting or having the potential to affect groundwater or soil vapor quality to NYSDEC recommended soil cleanup objective concentrations for subsurface soils.

Implementation of the remedial strategy will be conducted through excavation and off-site disposal of all soil impacts identified as requiring remediation.

The extent of remediation for the proposed remedial strategy is shown in Figure 9. The depths identified for excavation are based on the results of the field investigation and utilization of the proposed remedial strategy criteria. At any given point within the Construction Area, the specified depth of excavation is based on the deepest contamination identified at the nearest node. The excavation plan also identifies the historical fill areas that are designated for deeper excavation, which include G4, G6-G8, I1, I8, J1, J6 and N9. The fill areas identified during the field investigation were characterized with wood and miscellaneous debris including man-made fibrous material.

In summary, the proposed remedial strategy will remediate all contaminated soils to a depth of ten feet and fill areas to depths of up to 20 feet below grade. The proposed remedial strategy will result in the removal of the majority of site contamination. A buffer of 10 feet will be provided between grade and any residual contamination left in place. In addition, the more significantly contaminated fill areas will be addressed through deeper excavation.

All impacted soils that are excavated as part of the remediation effort will be transported off-site and disposed at a permitted facility considering the contaminant concentrations identified during

the IRM investigation. All excavated soils will be replaced with clean fill and top soil, as necessary. Remedial excavation and backfilling will be coordinated with the site redevelopment and construction plan to minimize duplication of effort.

In addition to the proposed remedial strategy and considering the soil vapor concentrations identified in site soils, it is recommended that any enclosed spaces contemplated as part of the proposed development activity include provision for soil vapor mitigation (i.e., prevention of soil vapor intrusion) as a design consideration. Given that VOC concentrations identified in soils were limited and no specific source for the soil vapor was identified, no soil remediation is recommended relative to VOCs as part of this IRM.

As noted previously, groundwater impacts are being addressed under remedial investigation being conducted by Northrop Grumman.

In consideration of the potential contaminant exposure pathways and potential receptors, the proposed remedial strategy seeks to eliminate contaminant exposure routes and contaminant migration through the addition of a clean surface soil buffer. Excavation to remove all contamination above NYSDEC cleanup objectives to a depth of ten feet permits relatively unrestricted future site use. For example, site maintenance operations such as installation of footings, fencing, lamp posts, curbs, new pavement, revised drain piping, new foundations, and revised surface gradients, to depths less than ten feet may proceed without exposure concerns. The near-term proposed site redevelopment will further reduce exposure pathways in the majority of the Construction Area through installation of impervious surfaces, i.e., the new ice rink building, concrete sidewalks or pavement in the parking areas.

The Human Exposure Assessment discussed in Section 6 evaluated the nature and extent of contamination with functional exposure pathways. The greatest qualitative potential risks were identified with ingestion of contaminated soil by visitors/workers at the site, inhalation of vapors (volatilization of contaminants or adverse indoor air quality from permeation of soil vapor) by visitors/workers to the site, inhalation of contaminated dust during remediation activities by workers at the site, and dermal absorption of contaminants in soil by visitors/workers at the site.

An evaluation of the proposed remedial strategy to the identified greatest qualitative potential risks is provided below:

Ingestion of Contaminated Soil by Visitors/Workers at the Site

This qualitative potential risk generally refers to an inadvertent ingestion of the contaminated soil through contact of food or hands with contaminated media. The proposed remedial alternative would remove all contaminated soils to a depth of ten feet throughout the Construction Area. This would reduce the qualitative potential risk to 'minor.'

Inhalation of Vapors by Visitors/Workers at the Site

Following implementation of the recommended remedial alternative, the qualitative potential risk associated with inhalation of vapors associated with the volatilization of VOCs from contaminated soils will be low. The proposed removal of impacted soils will not, in and of itself, eliminate the qualitative potential risk from permeation of contaminated soil vapor into site buildings, which may result in adverse indoor air quality. The proposed remedial alternative therefore recommends soil vapor intrusion mitigation measures. It is recommended that any new site building be designed to incorporate soil vapor intrusion mitigation measures such as a sub-slab depressurization system. The primary source of the soil vapor is perceived to be the groundwater, which will be remediated through an area-wide groundwater remediation program to be implemented by Northrop Grumman, as part of a Consent Order with NYSDEC.

Inhalation of Contaminated Dust during Remediation Activities by Workers at the Site

This qualitative potential risk is associated with the identified remedial alternative. The proposed remedial strategy will reduce the qualitative potential risk of inhalation of contaminated dust through compliance with a site specific Health and Safety Plan involving the implementation of dust suppression measures, appropriate personal protective equipment and continuous air monitoring.

Dermal Absorption of Contaminants in Soil by Visitors/Workers at the Site

The proposed remedial alternative would remove all contaminated soils to a depth of ten feet throughout the Construction Area. This strategy should reduce the qualitative potential risk to park visitors and workers to 'minor.'

7.4 Logistical Implementation

The proposed remedial excavation plan, based on application of the remedial strategy criteria to the contaminant concentrations identified during the field investigation results, is shown as Figure 9. The proposed volume of soil to be excavated totals approximately 100,000 cubic yards. Considering the sizeable volume of soil to be removed, remediation activity is planned to be coordinated with redevelopment activity to enable a more expedient schedule and cost avoidance associated with interim backfill and temporary surface stabilization.

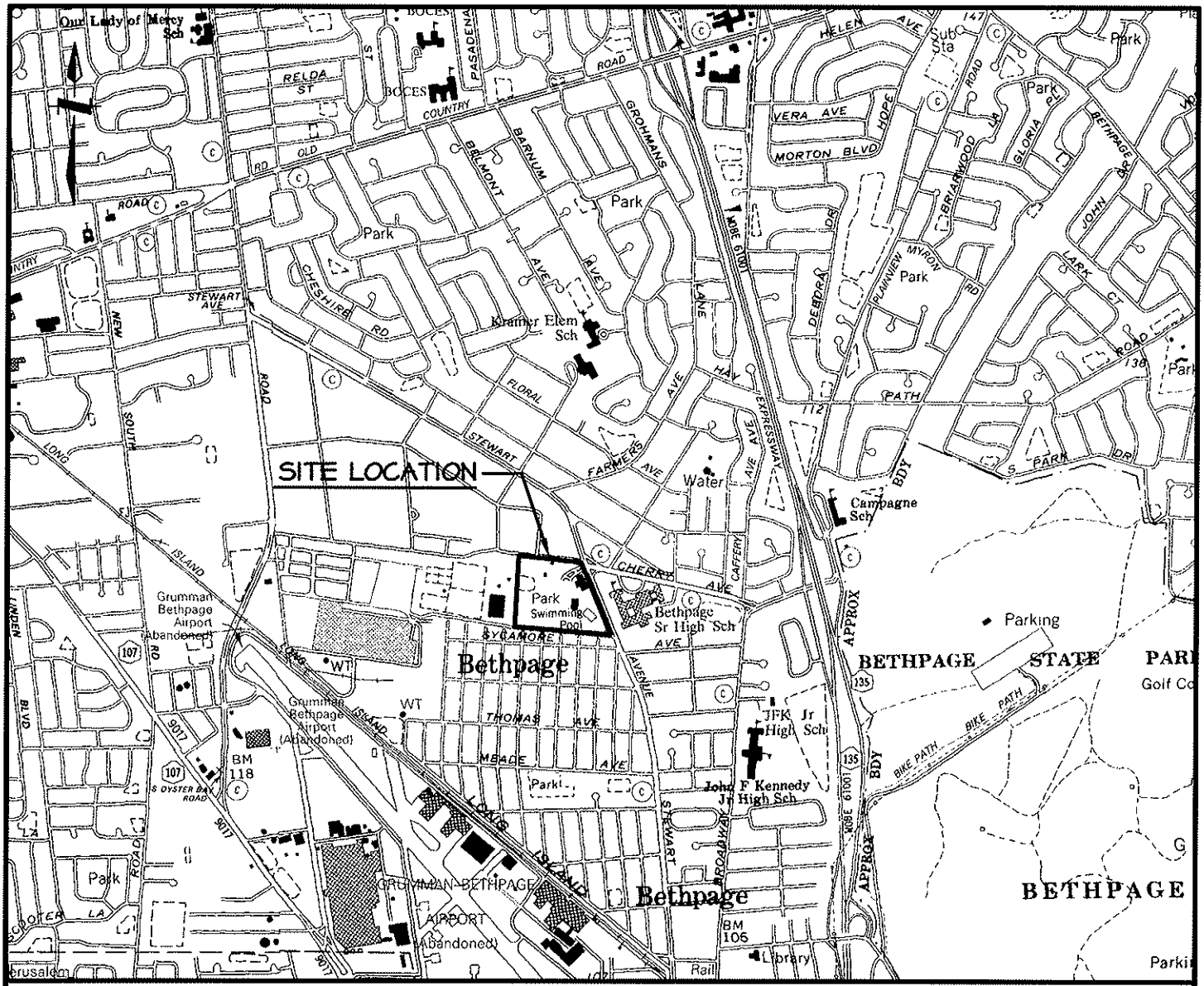
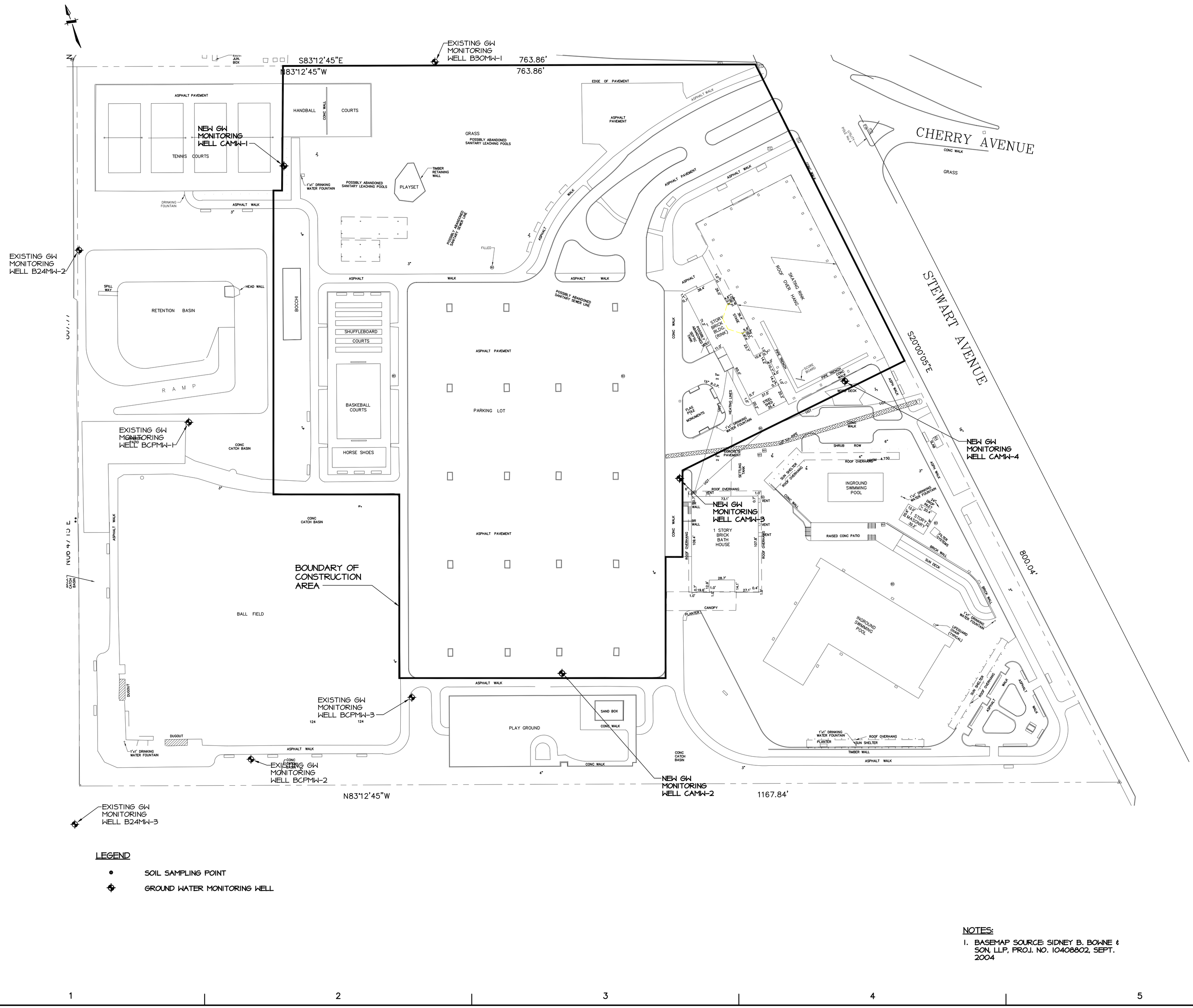


FIGURE 1. SITE LOCATION

SCALE: 1" = 2000'



LEGEND

- SOIL SAMPLING POINT
- GROUND WATER MONITORING WELL

NOTES:

1. BASEMAP SOURCE: SIDNEY B. BOWNE & SON, LLP, PROJ. NO. 10408802, SEPT. 2004

H2MGROUP
HOLZMACHER, McLENDON & MURRELL, P.C.
575 Broad Hollow Road, Melville, New York 11747
ENGINEERS ▪ ARCHITECTS ▪ PLANNERS ▪ SCIENTISTS ▪ SURVEYORS
E-mail: h2m@h2m.com
www.h2m.com
MELVILLE, N.Y. (631)-796-8000 ■
TOTOWA, N.J. (973)-942-0700 □

"ALTERATION OF THIS DOCUMENT, EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

MARK	DATE	DESCRIPTION
0	–	–

ISSUE:	
PROJECT NO:	TOBY 0402
DATE:	NOVEMBER 2004
CAD DWG FILE:	fig2-site.dwg
XREF DWG FILE:	xr_EXCAVATION.dwg
SCALE:	1"= 50'
FILE LOCATION:	
DESIGNED BY:	PJS
DRAWN BY:	DP
CHECKED BY:	C
REVIEWED BY:	Q

TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
BETHPAGE, NEW YORK

CONSTRUCTION AREA
IRM INVESTIGATION

CONTRACT

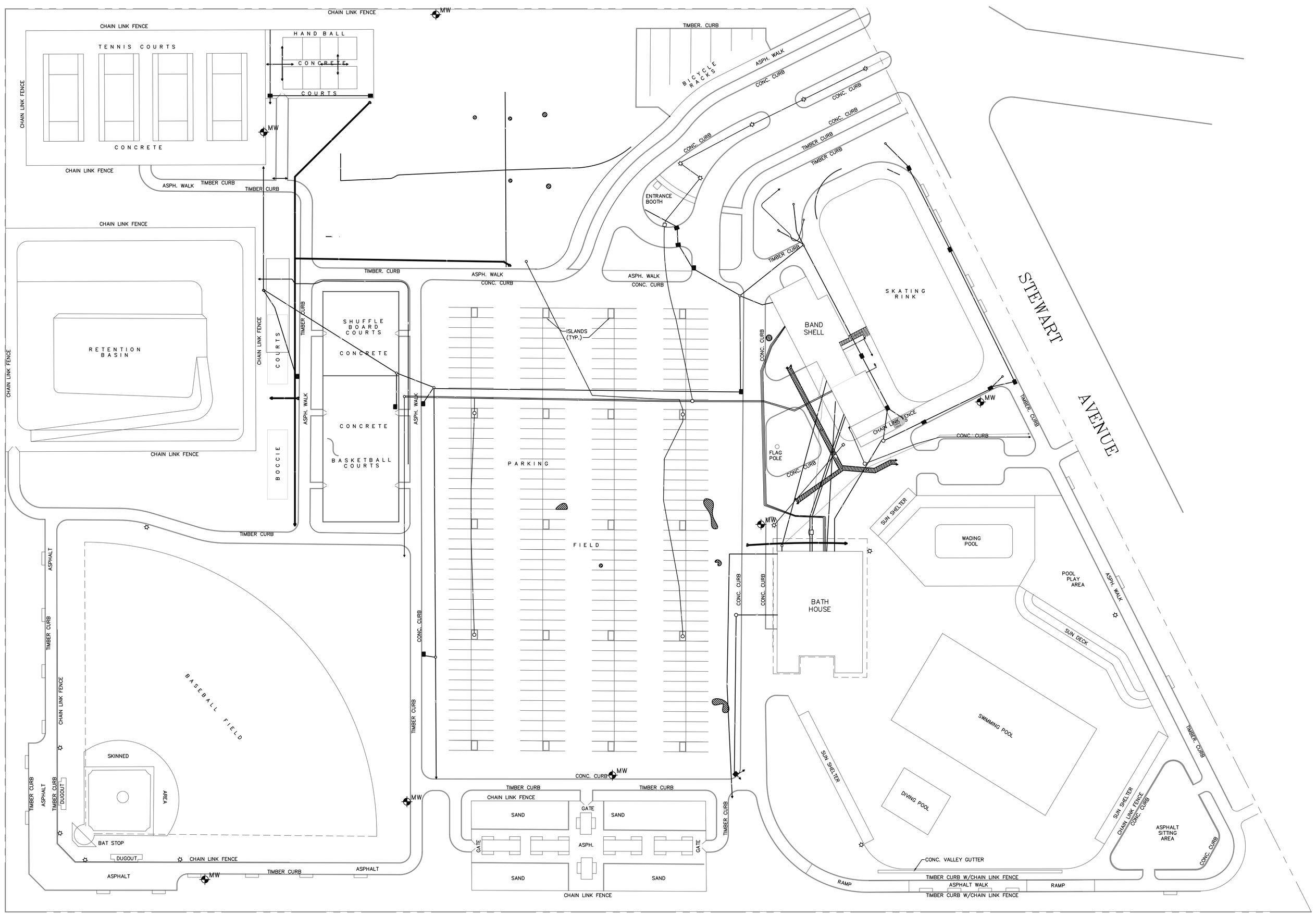
SHEET TITLE

GENERAL SITE PLAN

SHEET NUMBER

FIGURE 2

M:\cadd\TOBY\0402\9-19-05 drawings\FIGURE 2.dwg Last Modified: Nov 18, 2005 – 11:24am Plotted on: Jul 08, 2008 – 1:15pm By cadd120



NAEVA GEOPHYSICS, INC.
Subsurface Geophysical Surveys

50 N. Hamilton Avenue, Suite 11
Gresham, NY, 10520
(845)265-1900
(845)265-1902 FAX

Plate 1. Site Map Indicating Subsurface Features Detected during a Geophysical Investigation at the Bethpage Community Park, Located in Bethpage, New York

Client	H2M Group	Base Map Provided By	H2M Group
		Date of Work	May 17-23, 2005
Project No.	C050517J	Map By	Jeremy Haney

LEGEND

- electric line
- telephone
- water
- storm sewer
- sanitary sewer
- conduit of unknown use
- metal-detector anomaly
- catch basin
- man hole
- fire hydrant

0 10 20 ft

H2MGROUP
HOLZMACHER, McLENDON & MURRELL, P.C.
575 Broad Hollow Road, Melville, New York 11747
ENGINEERS ▪ ARCHITECTS ▪ PLANNERS ▪ SCIENTISTS ▪ SURVEYORS
E-mail: h2m@h2m.com
www.h2m.com
MELVILLE, N.Y. (631)-796-8000
TOTOWA, N.J. (973)-942-0700

"ALTERATION OF THIS DOCUMENT, EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

MARK	DATE	DESCRIPTION
0	–	–

ISSUE:	
PROJECT NO:	TOBY 0402
DATE:	NOVEMBER 2004
CAD DWG FILE:	fig3-site.dwg
XREF DWG FILE:	–
SCALE:	1"= 50'
FILE LOCATION:	
DESIGNED BY:	PJS
DRAWN BY:	DM
CHECKED BY:	C
REVIEWED BY:	Q

TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
BETHPAGE, NEW YORK

CONSTRUCTION AREA IRM INVESTIGATION UTILITY MARKOUT SITE PLAN

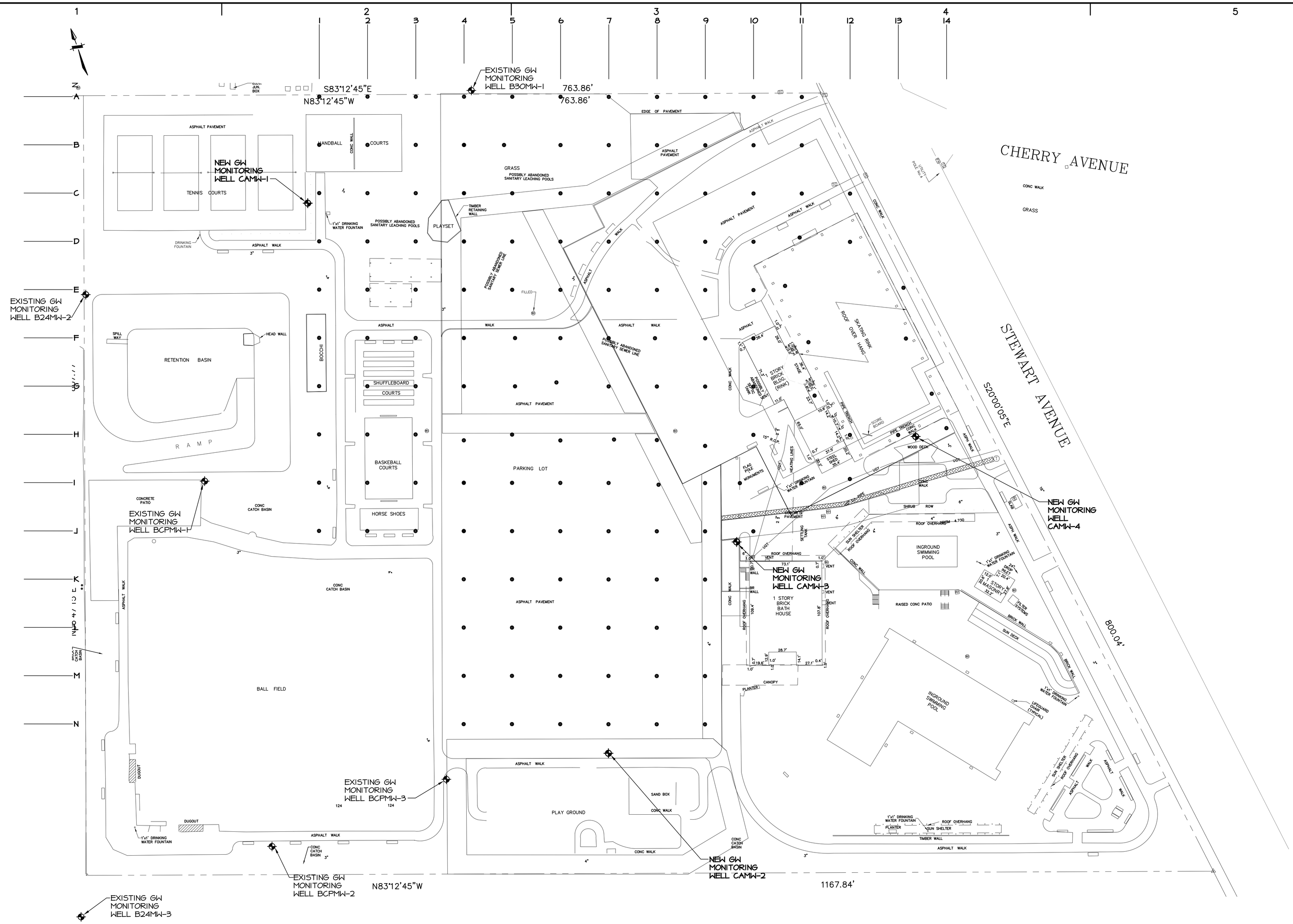
CONTRACT

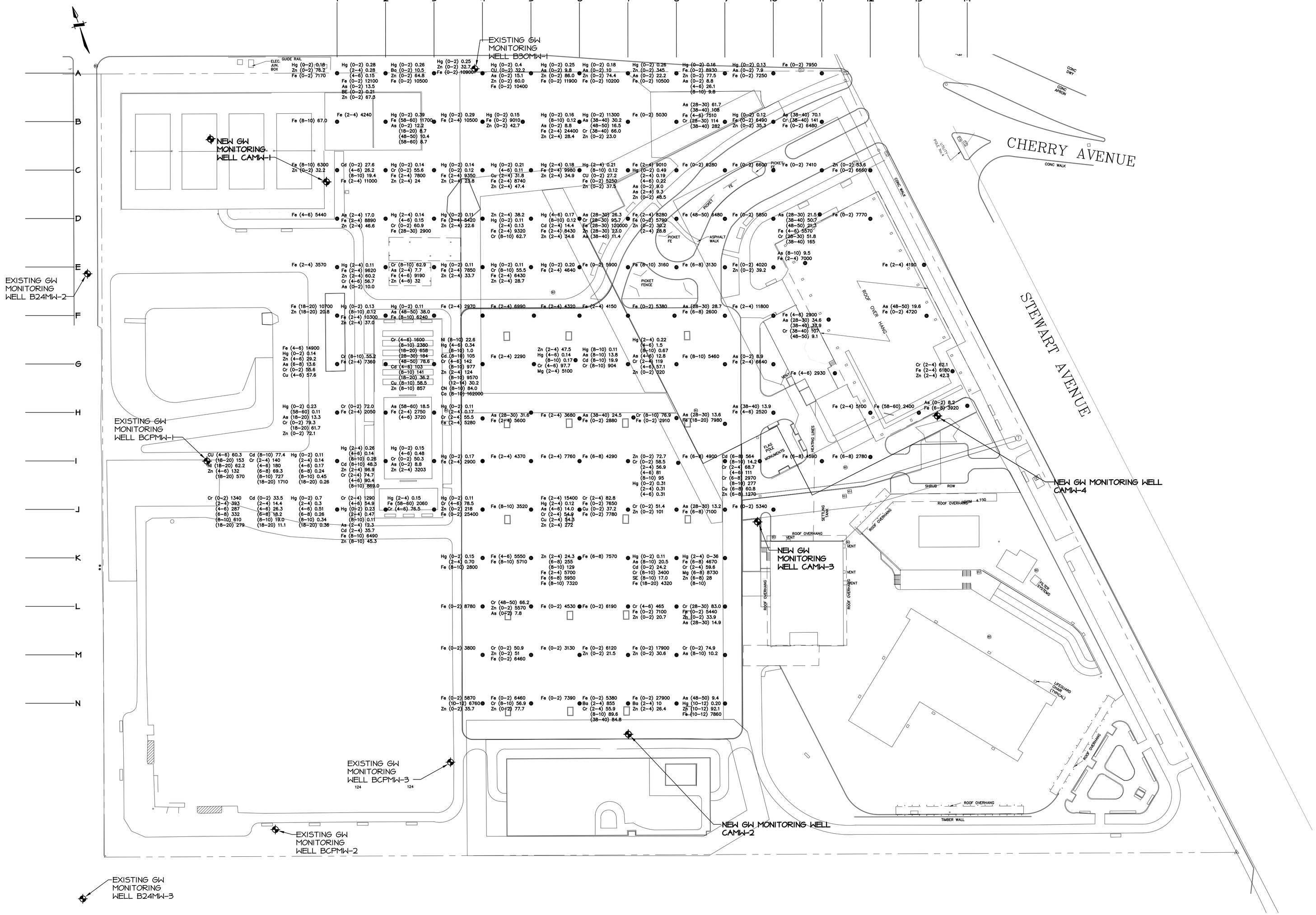
SHEET TITLE

SHEET NUMBER

FIGURE 3

M:\cadd\TOBY\0402\9-19-05 drawings\fig3-site-new.dwg Last Modified: Feb 15, 2007 – 10:05am Plotted on: Jul 08, 2008 – 1:08pm By: jnb


EXISTING GW MONITORING WELL B30MW-1
763.86'
763.86'
S83°12'45"E
N83°12'45"W
CHERRY AVENUE
STEWART AVENUE
S20°00'05"E
800.04'
1167.84'
N83°12'45"W
NEW GW MONITORING WELL CAMW-1
NEW GW MONITORING WELL CAMW-2
NEW GW MONITORING WELL CAMW-3
NEW GW MONITORING WELL CAMW-4
EXISTING GW MONITORING WELL B24MW-2
EXISTING GW MONITORING WELL B24MW-3
EXISTING GW MONITORING WELL BCPMW-1
EXISTING GW MONITORING WELL BCPMW-2
EXISTING GW MONITORING WELL BCPMW-3
ASPHALT PAVEMENT
HANDBALL COURTS
TENNIS COURTS
CONC WALL
GRASS
POSSIBLY ABANDONED SANITARY LEACHING POOLS
PLAYSET
TIMBER RETAINING WALL
"I"ve" DRINKING WATER FOUNTAIN
DRINKING FOUNTAIN
ASPHALT WALK
POSSIBLY ABANDONED SANITARY SEWER LINE
FILLED
RETENTION BASIN
SPILL WAY
HEAD WALL
BOCCHI
SHUFFLEBOARD COURTS
BASKETBALL COURTS
HORSE SHOES
PARKING LOT
RAMP
CONCRETE PATIO
CONC CATCH BASIN
BALL FIELD
DUGOUT
PLAY GROUND
SAND BOX
CONC WALK
ASPHALT WALK
1 STORY BRICK BATH HOUSE
ROOF OVER HANG
SKATING RINK
ROOF OVERHANG
VENT
SHRUB ROW
INGROUND SWIMMING POOL
RAISED CONC PATIO
BRICK WALL
SUN DECK
CANOPY
PLANTER
LIFEGUARD (TYP.)
SUN SHELTER
TIMBER WALL
ROOF OVERHANG
ASPH WALK
GRASS
CONC WALK
1"x4" DRINKING WATER FOUNTAIN
SUN SHELTER
ROOF OVERHANG
ASPHALT WALK
1 STORY BRICK BATH HOUSE
28.7'
27.1'
0.4'
1.0'
1.0'
1.0



NOTES:

1. BASEMAP SOURCE: SIDNEY B. BOWNE & SON, LLP, PROJ. NO. 10408802, SEPT. 2004
2. CONCENTRATIONS SHOWN IN MG/KG (PPM) FOR ALL METALS DETECTED ABOVE NYSDEC TAGM 4046 RECOMMENDED SOIL CLEAN UP OBJECTIVES.

H2MGROUP
HOLZMACHER, McLENDON & MURRELL, P.C.
575 Broad Hollow Road, Melville, New York 11747
ENGINEERS ▸ ARCHITECTS ▸ PLANNERS ▸ SCIENTISTS ▸ SURVEYORS
E-mail: h2m@h2m.com
www.h2m.com
MELVILLE, N.Y. (631)-796-8000
TOTOWA, N.J. (973)-942-0700

"ALTERATION OF THIS DOCUMENT, EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

MARK	DATE	DESCRIPTION
0	–	–

ISSUE:	
PROJECT NO:	TOBY 0402
DATE:	NOVEMBER 2004
CAD DWG FILE:	fig5-site.dwg
XREF DWG FILE:	xr_EXCAVATION.dwg
SCALE:	1"= 50'
FILE LOCATION:	
DESIGNED BY:	PJS
DRAWN BY:	DP
CHECKED BY:	C
REVIEWED BY:	Q

TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
BETHPAGE, NEW YORK

CONSTRUCTION AREA IRM INVESTIGATION SOIL SAMPLING RESULTS FOR METALS

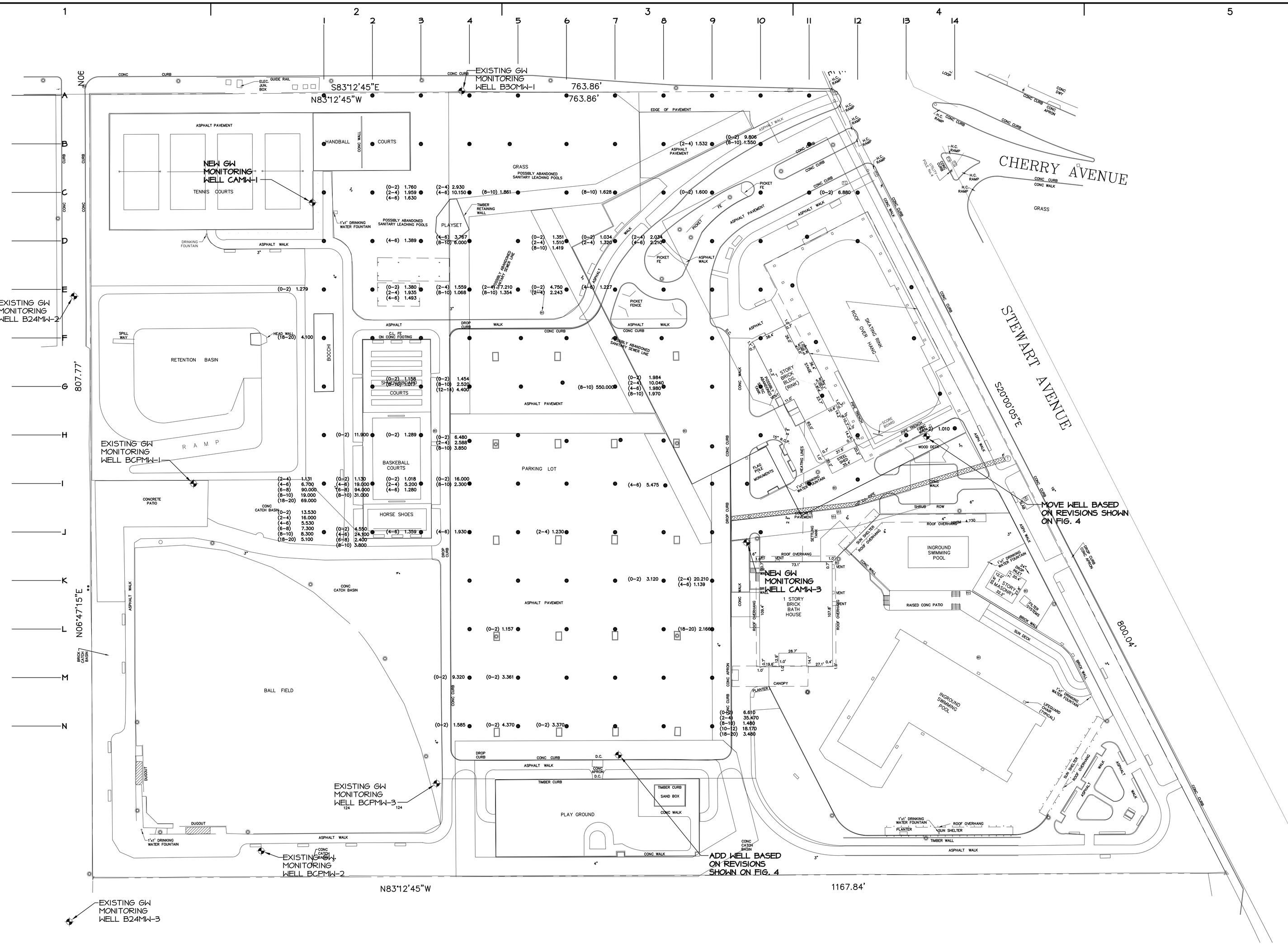
CONTRACT

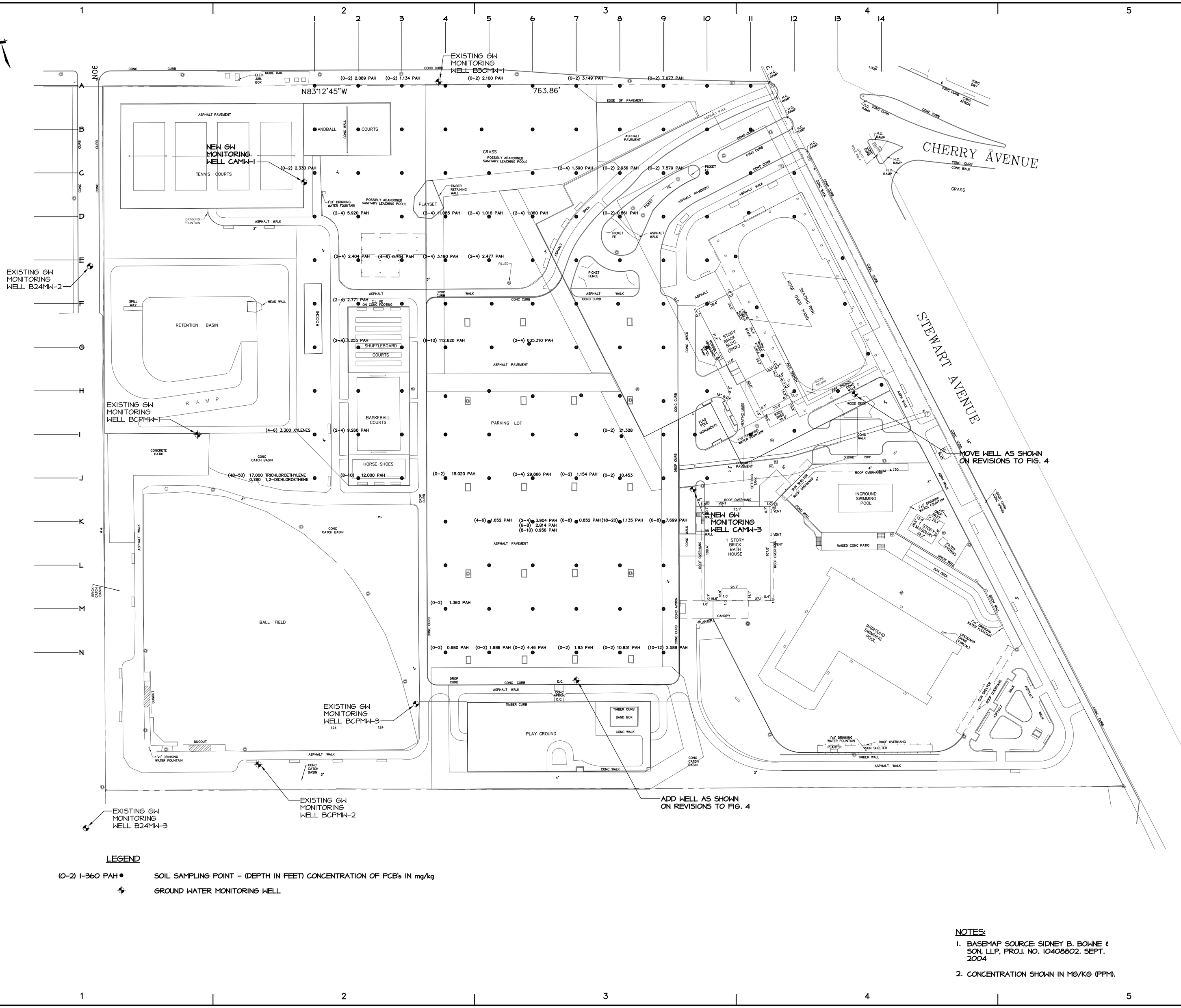
SHEET TITLE

SHEET NUMBER

FIGURE 5

W:\cadd\TOBY\0402\9-19-05 drawings\Fig5-site-new.dwg Last Modified: Feb 15, 2007 – 10:03am Plotted on: Jul 08, 2008 – 1:10pm By: jnb


EXISTING GW MONITORING WELL B30MW-1
N83°12'45"W 763.86'
S83°12'45"E 763.86'
N06°47'15"E 807.77'
S20°00'05"E 800.04'
N83°12'45"W 1167.84'
CHERRY AVENUE
STEWART AVENUE
NEW GW MONITORING WELL CAMW-1
EXISTING GW MONITORING WELL B24MW-2
EXISTING GW MONITORING WELL BCPMW-1
EXISTING GW MONITORING WELL BCPMW-3
EXISTING GW MONITORING WELL BCPMW-2
EXISTING GW MONITORING WELL B24MW-3
NEW GW MONITORING WELL CAMW-3
MOVE WELL BASED ON REVISIONS SHOWN ON FIG. 4
ADD WELL BASED ON REVISIONS SHOWN ON FIG. 4
HANDBALL COURTS
TENNIS COURTS
PLAYSET
RETENTION BASIN
BOCCIE COURTS
BASKETBALL COURTS
HORSE SHOES
PARKING LOT
CONCRETE PATIO
BALL FIELD
PLAY GROUND
SKATING RINK
1 STORY BRICK BLDG. (RINK)
INGROUND SWIMMING POOL
1 STORY BRICK BATH HOUSE
RAISED CONC PATIO
SUN DECK
BROOK
GRASS
POSSIBLY ABANDONED SANITARY LEACHING POOLS
POSSIBLY ABANDONED SANITARY SEWER LINE
ASPHALT PAVEMENT
ASPHALT WALK
CONC CURB
CONC WALK
DROP CURB
CONC APRON
TIMBER CURB
SAND BOX
TIMBER WALL
BRICK WALL
CHAIN LINK FENCE
PICKET FENCE
DRINKING FOUNDATION
1'x1' DRINKING WATER FOUNTAIN
DUGOUT
CONC CATCH BASIN
ROOF OVERHANG
SUN SHELTER
PLANTER
LIFEGUARD CHAIR (TYPICAL)
SHRUB ROW
WOOD DECK
FLAG POLE
MEMORIAL BENCH
SPILL WAY
HEAD WALL
C.I. PE ON CONC FOOTING
ASSUMED ABANDONED SANITARY SEWER LINE
STORY BRICK BLDG.
CONCRETE CATCH BASIN
ELEC. GUIDE RAIL JUN. BOX
EDGE OF PAVEMENT
DRINKING FOUNTAIN
TIMBER RETAINING WALL
CONC CATCH BASIN
CONC APRON
CONC CURB
CONC WALK
ASPHALT WALK
ASPHALT PAVEMENT
SHRUB ROW
ROOF OVERHANG
SUN SHELTER
PLANTER
RAISED CONC PATIO
SUN DECK
BRICK WALL
TIMBER WALL
CANOPY
VENT
SHOWER
1'x1' DRINKING WATER FOUNTAIN
LIFEGUARD CHAIR (TYPICAL)
ROOF OVERHANG
SUN SHELTER
PLANTER
1'x1' DRINKING WATER FOUNTAIN
ROOF OVERHANG
TIMBER WALL
ASPHALT WALK
CONC CURB
CONC APRON
CONC CATCH BASIN
CONC CATCH BASIN
CONC CATCH BASIN



LEGEND

(0-2) 1-360 PAH ● SOIL SAMPLING POINT - (DEPTH IN FEET) CONCENTRATION OF PCB's IN mg/kg

GROUND WATER MONITORING WELL

NOTES:

1. BASEMAP SOURCE: SIDNEY B. BOWNE & SON, LLP, PROJ. NO. 10408802. SEPT. 2004
2. CONCENTRATION SHOWN IN MG/KG (PPM).

H2MGROUP
HOLZMACHER, McLENDON & MURRELL, P.C.
575 Broad Hollow Road, Melville, New York 11747
ENGINEERS ▪ ARCHITECTS ▪ PLANNERS ▪ SCIENTISTS ▪ SURVEYORS
E-mail: h2m@h2m.com
www.h2m.com
MELVILLE, N.Y. (631)-796-5000
TOTOWA, N.J. (973)-942-0700

"ALTERATION OF THIS DOCUMENT, EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

MARK	DATE	DESCRIPTION

ISSUE:	
PROJECT NO:	TOBY 0402
DATE:	NOVEMBER 2004
CAD DWG FILE:	fig7-site.dwg
XREF DWG FILE:	xr_EXCAVATION.dwg
SCALE:	1"= 50'
FILE LOCATION:	
DESIGNED BY:	PJS
DRAWN BY:	DP
CHECKED BY:	C
REVIEWED BY:	Q

TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
BETHPAGE, NEW YORK

CONSTRUCTION AREA IRM INVESTIGATION SOIL SAMPLING RESULTS FOR VOCS AND SVOCS

CONTRACT

SHEET TITLE

SHEET NUMBER

FIGURE 7

M:\cadd\TOBY\0402\9-19-05 drawings\fig7-site-new.dwg Last Modified: Nov 02, 2005 - 4:29pm Plotted on: Jul 08, 2008 - 1:11pm By: jnb

TOWN OF OYSTER BAY

FIGURE 8
CONSTRUCTION AREA
IRM INVESTIGATION POTENTIOMETRIC GROUNDWATER SURFACE MAP

SITUATED AT

BETHPAGE

TOWN OF OYSTER, NASSAU COUNTY, NEW YORK

SCALE: NOT TO SCALE PROJ. No. TOBY-0402 DATE: AUGUST 2005

H2MGROUP
Holzmacher, McLendon & Murrell, P.C.
575 BROADHOLLOW ROAD, MELVILLE, NEW YORK 11747

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.
40 0 20 40 60 160

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED SEAL OR EMBOSSER SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

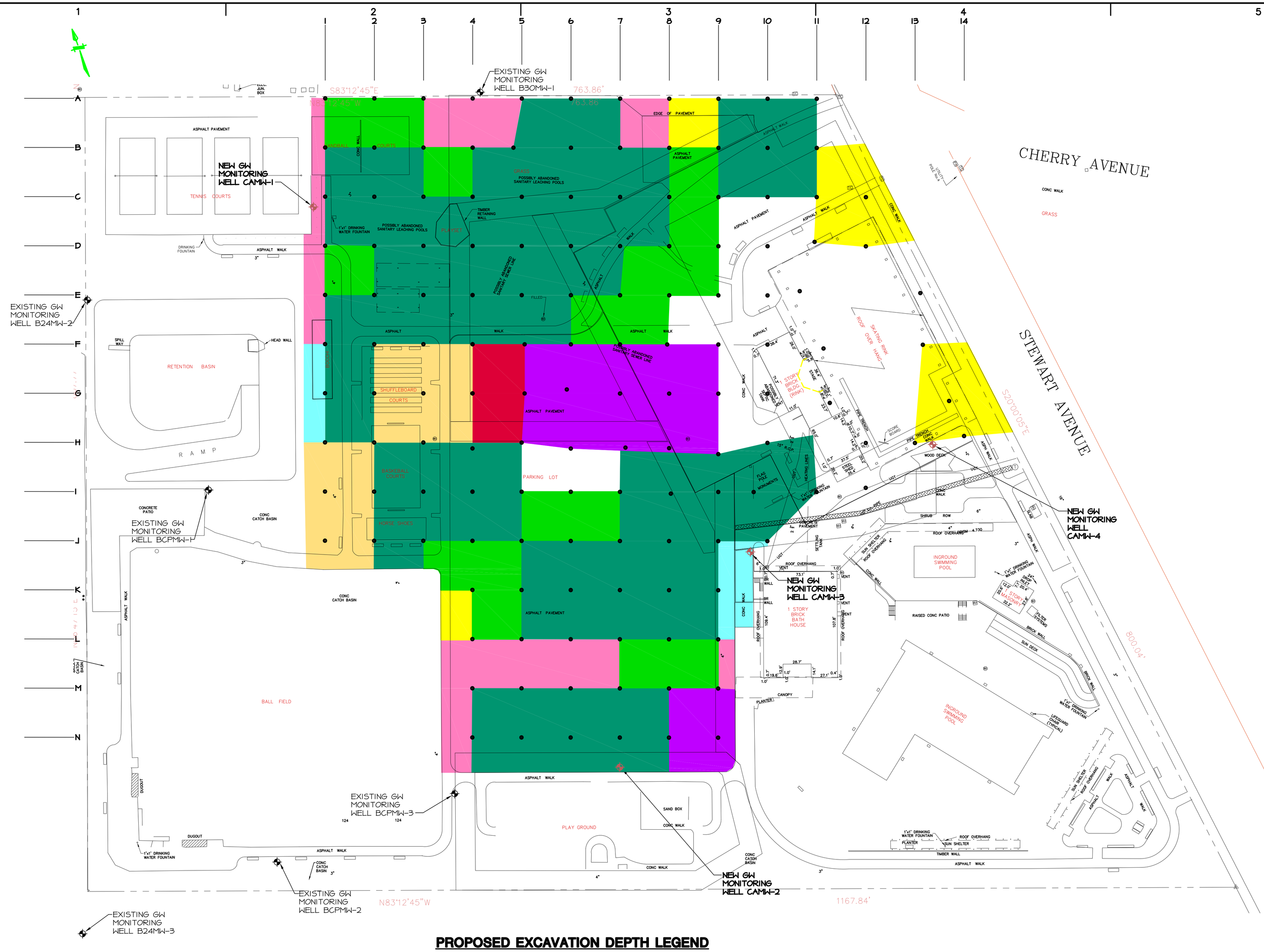
CERTIFICATIONS INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THIS SURVEY IS PREPARED AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON AND TO THE ASSIGNEES OF THE LENDING INSTITUTION. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

ABSTRACT OF TITLE AND EASEMENTS FOR SUBJECT PARCEL AND ADJOINING PARCELS HAVE BEEN RELIED UPON FOR PREPARATION OF THIS SURVEY. ANY EASEMENTS OTHER THAN THAT PROVIDED AND SHOWN HEREON ARE NOT GUARANTEED.

CHERRY STREET

S 07°48'50" E 905.00

RAMP
TIMBER CURB W/CHAIN LINK FENCE
ASPHALT WALK
CONC. VALLEY GUTTER
CONC. CURB
ASPHALT SITTING AREA
CHAIN LINK FENCE
SUN SHELTER
SWIMMING POOL
DIVING POOL
TIMBER CURB
SUN DECK
ASPH. WALK
POOL PLAY AREA
WADING POOL
BATH HOUSE
CONC. CURB
FLAG POLE
CHAIN LINK FENCE
CAMW-4
GND 123.53
TOP 123.55
PIPE 123.21
GW 68.30
CAMW-3
GND 123.44
TOP 123.42
PIPE 122.73
GW 68.87
SKATING RINK
BAND SHELL
ISLANDS (TYP.)
ENTRANCE BOOTH
BICYCLE RACKS
CONC. CURB
ASPH. WALK
TIMBER CURB
CHAIN LINK FENCE
SAND
GATE
ASPH.
TIMBER CURB
CONC. CURB
CAMW-2
GND 124.14
TOP 124.15
PIPE 123.52
GW 68.57
FIELD
PARKING
CONCRETE
BASKETBALL COURTS
BOCCIE
SHUFFLE BOARD COURTS
HAND BALL COURTS
BALL FIELD
CHAIN LINK FENCE
CAMW-1
GND 126.92
TOP 126.93
PIPE 126.58
GW 69.58
68.70
68.80
68.90
69.00
69.10
69.20
69.30
69.40
69.50



PROPOSED EXCAVATION DEPTH LEGEND

NO EXCAVATION REQUIRED	
2'	10'
4'	12'
6'	14'
8'	20'

LEGEND

- SOIL SAMPLING POINT
- GROUND WATER MONITORING WELL

NOTES:

1. BASEMAP SOURCE: SIDNEY B. BOWNE & SON, LLP, PROJ. NO. 10408802, SEPT. 2004

H2MGROUP
HOLZMACHER, McLENDON & MURRELL, P.C.
575 Broad Hollow Road, Melville, New York 11747
ENGINEERS ▪ ARCHITECTS ▪ PLANNERS ▪ SCIENTISTS ▪ SURVEYORS
E-mail: h2m@h2m.com
www.h2m.com
MELVILLE, N.Y. (631)-796-5000
TOTOWA, N.J. (973)-942-0700

"ALTERATION OF THIS DOCUMENT, EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

MARK	DATE	DESCRIPTION
1	–	–

ISSUE:	
PROJECT NO:	TOBY 0402
DATE:	NOVEMBER 2004
CAD DWG FILE:	FIGURE 9.DWG
XREF DWG FILE:	xr_EXCAVATION.dwg
SCALE:	1"= 50'
FILE LOCATION:	
DESIGNED BY:	PJS
DRAWN BY:	DP/PB
CHECKED BY:	C
REVIEWED BY:	Q

TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
BETHPAGE, NEW YORK

CONSTRUCTION AREA IRM INVESTIGATION

CONTRACT

SHEET TITLE

PROPOSED REMEDIAL STRATEGY EXCAVATION PLAN

SHEET NUMBER

FIGURE 9

N:\cadd\TOBY\0402\9-19-05 drawings\FIGURE 9.dwg Last Modified: Jul 10, 2008 - 3:08pm Plotted on: Jul 10, 2008 - 3:23pm By cadd120

TABLES

TABLE 3.2.1. SOIL BORING LOCATION DEVIATIONS FROM PROPOSED WORK PLAN

Boring Location	Approximate Deviation	Reason for Deviation
B5	Moved 8.5 ft West	Tree obstruction
D11	Moved 5 ft North	Concrete
E11	Moved 16 feet West	Skating Rink
E12	Eliminated	Skating Rink
E13	Moved 6 feet East	Concrete
F5	Moved 3 feet East	Subsurface Utility/Anomaly
F8	Moved 2 feet West	Subsurface Utility/Anomaly
F11	Moved 8 feet East	Concrete Support Column
F12	Eliminated	Skating Rink
F13	Moved 10 feet East	Skating Rink
G5	Moved 3 feet East	Subsurface Utility/Anomaly
G6	Moved 5.75 feet Northwest	Subsurface Utility/Anomaly
G11	Moved 22 feet Southeast	Building Structure
G12	Eliminated	Skating Rink
G13	Eliminated	Skating Rink
G14	Added. Placed 12 feet West of Row 14-line transect.	Boring Location added due to elimination of G12 and G13
H4	Moved 6 feet South	Subsurface Utility/Anomaly
H5	Moved 9 feet Southeast	Subsurface Utility/Anomaly
H6	Moved 6 feet South	Subsurface Utility/Anomaly
H7	Moved 7.5 feet Southeast	Subsurface Utility/Anomaly
H8	Moved 5.5 feet South	Subsurface Utility/Anomaly
H9	Moved 11.5 feet South	Subsurface Utility/Anomaly
H11	Eliminated	Building Structure
I8	Moved 2.5 feet Southeast	Subsurface Utility/Anomaly
I10	Moved 14 feet West	Veteran's Memorial
J3	Moved 6 feet East	Structure Interference
J8	Moved 1 foot Northeast	Subsurface Utility/Anomaly
K9	Moved 2 feet South	Subsurface Utility/Anomaly

TABLE 4.2.1. PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring A-1				Boring A-2				Boring A-3			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)							
Aroclor 1016		U	U	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1242		U	U	U	U	49	U	U	U	82	U	U	U
Aroclor 1248		U	U	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1254		26 PJ	U	U	U	66	U	U	U	43 PJ	U	U	U
Aroclor 1260		27 PJ	U	U	U	72 PJ	U	U	U	39	U	U	U
Total	1000/10000	53				187				164			

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring A-4				Boring A-5				Boring A-6			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		39	U	U	U	24 J	U	58	21 J	65	21 J	U	28 J
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		U	U	U	U	20 PJ	U	45 ZJ	U	66 PZJ	U	U	26 PJ
Aroclor 1260		U	U	U	U	U	U	U	U	28 PJ	U	U	U
Total	1000/10000	39				44		103	21	159	21		54

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring A-7				Boring A-8				Boring A-9			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		U	U	U	U	U	U	U	U	110	U	36 PJ	U
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		U	U	U	U	27 PJ	U	U	U	86 PZJ	U	40 PJ	U
Aroclor 1260		U	U	U	U	U	U	U	U	43	U	32 J	U
Total	1000/10000					27				239		108	

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring A-10				Boring A-11			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U
Aroclor 1242		U	U	U	U	U	U	U	U
Aroclor 1248		U	U	U	U	U	U	U	U
Aroclor 1254		U	U	U	U	U	U	U	U
Aroclor 1260		U	U	U	U	U	U	U	U
Total	1000/10000								

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring B-1								Boring B-2			
		0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)								(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		U	U	U	U	U	U	U	U	18 J	U	U	53
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1260		U	U	U	U	U	U	U	U	U	U	U	U
Total	1000/10000									18			53

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring B-3									Boring B-4			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		U	U	U	U	U	U	U	U	U	35 J	U	U	U
Aroclor 1260		U	U	U	U	22 J	U	U	U	U	U	U	U	U
Total	1000/10000					22					35			

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring B-5									Boring B-6			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		UXJ	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		220	29 J	U	U	U	U	U	U	U	53	U	U	17 J
Aroclor 1248		UXJ	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		260	38 PJ	U	U	U	U	U	U	U	34 PJZ	U	18 PJ	20 PJ
Aroclor 1260		64	22 J	U	U	U	U	U	U	U	U	U	U	U
Total	1000/10000	544	89								87		18	37

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring B-7							Boring B-8			
		0-2	2-4	8-10	18-20	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)							(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1242		U	U	U	U	U	U	U	130	180	84	110
Aroclor 1248		U	U	U	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1254		U	U	U	U	U	U	U	90 ZJ	73 ZJ	70 ZJ	100 ZJ
Aroclor 1260		U	U	U	U	U	U	U	30 PJ	24 J	22 J	22 J
Total	1000/10000								250	277	176	232

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring B-9									Boring B-10			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		U	UXJ	UXJ	UXJ	U	U	U	U	U	UXJ	U	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	UXJ	UXJ	UXJ	U	U	U	U	U	UXJ	U	UXJ	UXJ
Aroclor 1242		62	1500 D	330	330	U	U	U	U	U	9800 D	51	760 D	1300 D
Aroclor 1248		U	UXJ	UXJ	UXJ	U	U	U	U	U	UXJ	U	UXJ	UXJ
Aroclor 1254		33 J	UXJ	U	U	U	U	U	U	U	UXJ	U	180 ZJ	250 ZJ
Aroclor 1260		20 J	32 J	U	U	U	U	U	U	U	UXJ	22 PJ	42	UXJ
Total	1000/10000	115	**1532**	330	330						**9800**	27	982	**1550**

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring B-11							
		0-2	2-4	8-10	20-23	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)							
Aroclor 1016		UXJ	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	U	U	U	U
Aroclor 1242		120	U	U	U	U	U	U	U
Aroclor 1248		UXJ	U	U	U	U	U	U	U
Aroclor 1254		49 ZJ	U	U	U	U	U	U	U
Aroclor 1260		U	U	U	U	U	U	U	U
Total	1000/10000	169							

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring C-1				Boring C-2				Boring C-3			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		U	U	U	U	UXJ	U	UXJ	U	UXJ	UXJ	UXJ	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	UXJ	U	UXJ	U	UXJ	UXJ	UXJ	U
Aroclor 1242		27 J	31 J	41	U	180	U	170	65	970 D	1900 D	1000 D	U
Aroclor 1248		U	U	U	U	UXJ	U	UXJ	U	UXJ	UXJ	UXJ	U
Aroclor 1254		88	31 J	39	U	130 ZJ	U	79 ZJ	32 J	660 DZJ	UXJ	520 ZJ	U
Aroclor 1260		49	U	61	U	36 J	U	25 J	U	130	59	110	U
Total	1000/10000	164	62	141		346		274	97	**1760**	**1959**	**1630**	

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring C-4				Boring C-5				Boring C-6			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		UXJ	UXJ	U	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	U	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ
Aroclor 1242		450	1400	10000 D	470	120	220 PJ	300 PJ	1800 D	140	220	180	210
Aroclor 1248		UXJ	UXJ	U	UXJ	U	UJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ
Aroclor 1254		440	1400	U	U	120 PZJ	430 ZJ	520J	UXJ	160 ZJ	260 ZJ	120 ZJ	80 ZJ
Aroclor 1260		83	130	150	24 PJ	30 J	57	62	61	49	46	26 J	U
Total	1000/10000	973	**2930**	**10150**	494	270	707	882	**1861**	349	526	326	290

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring C-7				Boring C-8				Boring C-9			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		UX	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	U
Aroclor 1242		160	430	490	1100 D	490	140	440	96	1600 D	370	U	U
Aroclor 1248		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	U
Aroclor 1254		220 PJ	150 ZJ	250 ZJ	460 ZJ	150 ZJ	110 ZJ	220 ZJ	U	UXJ	U	U	U
Aroclor 1260		54	27 J	40	68	50	46	29 J	U	UXJ	U	U	U
Total	1000/10000	434	607	780	**1628**	690	296	689	96	**1600**	370		

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring C-10				Boring C-11				Boring C-12			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		UXJ	UXJ	U	UXJ	UXJ	U	U	U	UXJ	UXJ	U	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	U	UXJ	UXJ	U	U	U	UXJ	UXJ	U	UXJ
Aroclor 1242		230	110	38	190	370	U	61	34 U	5100 D	2200 D	550	190 PJ
Aroclor 1248		UXJ	UXJ	U	UXJ	UXJ	U	U	U	UXJ	UXJ	U	UXJ
Aroclor 1254		67 ZJ	85 ZJ	30 J	U	U	U	U	U	1600 DZJ	UXJ	U	U
Aroclor 1260		U	U	U	U	U	U	U	U	180	73	25 PJ	U
Total	1000/10000	297	195	68	190	370		61	34	**6880**	**2273**	575	190

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring D-1									Boring D-2			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		UXJ	U	U	U	U	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	U	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1242		140	U	42	39	U	U	U	U	U	95	460	480	130
Aroclor 1248		35 UXJ	U	34 U	34 U	U	U	U	U	U	34 UXJ	34 UXJ	35 UXJ	35 UXJ
Aroclor 1254		130 ZJ	32 J	28 JZ	29 JZ	U	21 J	U	U	U	230	150 ZJ	35 UXJ	95 ZJ
Aroclor 1260		28 J	35 U	34 U	34 U	U	U	U	U	U	56	73	46	33 J
Total	1000/10000	333	67	138	136		21				415	717	596	293

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring D-3									Boring D-4			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		UXJ	UXJ	UXJ	U	U	UXJ	UXJ	U	UXJ	UXJ	UXJ	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	UXJ	U	U	UXJ	UXJ	U	UXJ	UXJ	UXJ	UXJ	UXJ
Aroclor 1242		230	350	1300	53	34 U	230	330	35 U	79	200	310	3700 D	5900 D
Aroclor 1248		UXJ	UXJ	UXJ	U	U	UXJ	UXJ	U	UXJ	UXJ	UXJ	UXJ	UXJ
Aroclor 1254		160 ZJ	440 ZJ	UXJ	U	U	U	UXJ	U	36 JZ	200 ZJ	140 ZJ	UXJ	UXJ
Aroclor 1260		44	67	89	38	34 U	34 U	25 J	U	U	48	26 J	67	100
Total	1000/10000	434	857	**1389**	91	68	264	355	35	115	448	476	**3767**	**6000**

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring D-5									Boring D-6			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		UXJ	UXJ	UXJ	UXJ	U	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	UXJ	UXJ	U	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1242		160	150	47	730	U	U	U	U	U	890 D	280	220	720 D
Aroclor 1248		UXJ	UXJ	UXJ	UXJ	U	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1254		130	150	33 J	UXJ	U	U	U	U	U	390 PZJ	1100 D	290 PZJ	620 DZJ
Aroclor 1260		36 J	42	U	41	U	U	U	U	U	71	130	51 PJ	79
Total	1000/10000	326	342	80	771						**1351**	**1510**	561	**1419**

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring D-7								Boring D-8			
		0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)								(µg/kg)			
Aroclor 1016		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	UXJ	UXJ	UXJ	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	UXJ	UXJ	UXJ	U
Aroclor 1242		830 D	1100 D	520	210	200	160	U	U	170	2000 D	2100 D	U
Aroclor 1248		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	UXJ	UXJ	UXJ	U
Aroclor 1254		170 ZJ	180 ZJ	UXJ	UXJ	48 ZJ	U	U	U	290	UXJ	UXJ	U
Aroclor 1260		34 J	40	21 J	27 J	36 U	U	U	U	58	42	110	U
Total	1000/10000	**1034**	**1320**	541	237	284	160			518	**2042**	**2210**	

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring D-9										Boring D10			
		0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)										(µg/kg)			
Aroclor 1016		UXJ	UXJ	U	U	U	U	U	U	U	U	U	UXJ	UXJ	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	U	U	U	U	U	U	U	U	U	UXJ	UXJ	U
Aroclor 1242		400	340	U	U	U	U	U	U	U	U	66	81	88	20 J
Aroclor 1248		UXJ	UXJ	U	U	U	U	U	U	U	U	U	UXJ	UXJ	U
Aroclor 1254		69 ZJ	UXJ	U	U	U	U	U	U	U	U	48	39 ZJ	27 JZ	U
Aroclor 1260		21 J	U	U	U	U	U	U	U	U	U	U	U	U	U
Total	1000/10000	490	34									114	120	115	20

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring D-11									Boring D-12			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		UXJ	U	UXJ	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	UXJ	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1242		350	33 J	84	U	U	U	U	U	U	93	U	U	U
Aroclor 1248		UXJ	U	UXJ	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1254		110 ZJ	U	UXJ	U	U	U	U	U	U	61 ZJ	U	20 J	U
Aroclor 1260		30 J	U	U	U	U	U	U	U	U	U	U	U	U
Total	1000/10000	490	33	84							154		20	

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring E-1				Boring E-2				Boring E-3			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		UXJ	U	UXJ	U	UXJ	UXJ	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	UXJ	U	UXJ	UXJ	U	U	UXJ	UXJ	UXJ	U
Aroclor 1242		760 D	U	83	31 J	480	600 E	49 PJ	U	770 D	1100 D	940 D	840 D
Aroclor 1248		UXJ	U	UXJ	U	UXJ	UXJ	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1254		430 JZ	U	45 JZ	U	260 ZJ	260 ZJ	66 ZJ	U	530	740 DZJ	480	UXJ
Aroclor 1260		89	U		U	77	66	57	U	80	95	73	51
Total	1000/10000	**1279**		128		817	926	172		**1380**	**1935**	**1493**	891

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring E-4				Boring E-5				Boring E-6			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		U	UX	U	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	UX	U	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U
Aroclor 1242		280	990 D	360	510	510	7100 D	950 D	1300 D	4600 D	2200 D	180	30 J
Aroclor 1248		U	UX	U	U	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U
Aroclor 1254		290 ZJ	520 ZJ	140	510 ZJ	300 ZJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	U
Aroclor 1260		43	49	26 J	48 PJ	86 PJ	110	34 J	54	150	43	U	U
Total	1000/10000	613	**1559**	526	**1068**	896	**7210**	984	**1354**	**4750**	**2243**	180	30

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring E-7				Boring E-8					Boring E-9				
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10
	(µg/kg)	(µg/kg)				(µg/kg)					(µg/kg)				
Aroclor 1016		UXJ	U	UXJ	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	UXJ	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		460	U	1200 D	U	U	U	U	U	U	45	U	U	U	18 PJ
Aroclor 1248		UXJ	U	UXJ	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		UXJ	U	UXJ	U	U	U	U	U	U	49	U	U	U	36
Aroclor 1260		U	U	27 J	U	U	U	U	U	U	U	U	U	U	22 J
Total	1000/10000	460		1227							94				76

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partialiy masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring E-10			Boring E-11				Boring E-13			
		0-2	2-4	4-6	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)			(µg/kg)				(µg/kg)			
Aroclor 1016		UXJ	U	U	UXJ	U	U	U	UXJ	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	UXJ	U	U	U	UXJ	U	U	U
Aroclor 1242		95	U	32 J	78	U	U	23 J	35	U	U	U
Aroclor 1248		UXJ	U	U	UXJ	U	U	U	UXJ	U	U	U
Aroclor 1254		93	U	56	43 JZ	30 J	U	U	65	37 PJ	25 J	20 J
Aroclor 1260		52	U	32 J	U	U	U	U	25 J	33 J	24 J	U
Total	1000/10000	240		120	121	30		23	125	70	49	20

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring F-1										Boring F-2			
		0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)										(µg/kg)			
Aroclor 1016		UXJ	UXJ	U	U	U	UXJ	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	U	U	U	UXJ	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1242		360	230	U	U	62	3200 D	U	U	U	U	500	280	280	120
Aroclor 1248		UXJ	UXJ	U	U	U	U	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1254		1000 D	130 JZ	46	U	94	770 DJZ	U	U	U	U	250 PJZ	310 PJZ	140 JZ	93 JZ
Aroclor 1260		110 PJ	30 J	U	U	U	140	U	U	U	U	76	66	26 J	24 J
Total	1000/10000	**1470**	390	46		156	**4100**					826	656	446	237

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring F-3									Boring F-4			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		UXJ	UXJ	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		320	230	47	18 J	U	U	U	U	U	29 J	U	U	U
Aroclor 1248		UXJ	UXJ	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		190 JZ	110 PJZ	25 JZ	U	U	U	U	U	U	23 J	U	U	U
Aroclor 1260		36	26 J	U	U	U	U	U	U	U	U	U	U	U
Total	1000/10000	546	366	72	18						52			

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring F-5									Boring F-6			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		U	U	U	U	UXJ	U	U	U	U	UXJ	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	UXJ	U	U	U	U	UXJ	U	U	U
Aroclor 1242		31 J	U	22 J	U	46	U	U	U	U	70	U	U	U
Aroclor 1248		U	U	U	U	UXJ	U	U	U	U	UXJ	U	U	U
Aroclor 1254		22 PJ	U	31 J	U	U	U	U	U	U	U	U	U	U
Aroclor 1260		U	U	U	U	U	U	U	U	U	U	U	U	U
Total	1000/10000	53		53		46					70			

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring F-7								Boring F-8			
		0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)								(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		22 J	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		20 J	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1260		19 J	U	U	U	U	U	U	U	U	U	U	U
Total	1000/10000	61											

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring F-9										Boring F-10			
		0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)										(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1260		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total	1000/10000														

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring F-11								
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)								
Aroclor 1016		UXJ	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	U	U	U	U	U
Aroclor 1242		98	U	U	U	U	U	U	U	U
Aroclor 1248		UXJ	U	U	U	U	U	U	U	U
Aroclor 1254		420	310	26 J	U	U	U	U	U	22 J
Aroclor 1260		33 J	38	U	U	U	U	U	U	U
Total	1000/10000	551	348	26						22

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring F-13								
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)								
Aroclor 1016		U	UXJ	UXJ	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U
Aroclor 1232		U	UXJ	UXJ	U	U	U	U	U	U
Aroclor 1242		36	150	44	22 J	U	U	U	U	U
Aroclor 1248		U	UXJ	UXJ	U	U	U	U	U	U
Aroclor 1254		43	64 PJZ	31 PJZ	24 PJ	U	U	U	U	U
Aroclor 1260		U	26 PJ	U	U	U	U	U	U	U
Total	1000/10000	19	240	75	46					

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring G-1					Boring G-2			
		0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)					(µg/kg)			
Aroclor 1016		U	U	UXJ	U	U	UXJ	UXJ	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	UXJ	U	U	UXJ	UXJ	U	U
Aroclor 1242		31 J	47	69	U	20 J	150	120	47	44
Aroclor 1248		U	U	UXJ	U	U	UXJ	UXJ	U	U
Aroclor 1254		U	U	41 ZJ	U	U	77 JZ	80 JZ	29 JZ	29 JZ
Aroclor 1260		U	U	U	U	U	25 J	50	U	U
Total	1000/10000	31	47	110		20	252	250	76	73

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring G-3									Boring G-4				
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10	12-14
	(µg/kg)	(µg/kg)									(µg/kg)				
Aroclor 1016		UXJ	U	UXJ	UXJ	UXJ	U	U	U	U	UXJ	U	UXJ	UXJ	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	UXJ	UXJ	UXJ	U	U	U	U	UXJ	U	UXJ	UXJ	UXJ
Aroclor 1242		920 D	46	160	110	140	50	U	U	U	1200 D	43 J	380 JNP	570	4400 D
Aroclor 1248		UXJ	U	UXJ	UXJ	UXJ	U	U	U	U	UXJ	U	UXJ	UXJ	UXJ
Aroclor 1254		180 PJZ	U	120 PJZ	830 D	270	100	U	U	U	220 ZJ	37 J	290 PZJ	1800 D	UXJ
Aroclor 1260		58 PJ	U	26 J	77	50 PJ	21 J	U	U	U	34		200	150	UXJ
Total	1000/10000	**1158**	46	306	**1017**	460	171				**1454**	80	870	**2520**	**4400**

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
NP – Greater than 70% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partialiy masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring G-5				Boring G-6			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)			
Aroclor 1016		UXJ	U	U	U	U	UXJ	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	U	UXJ	U	UXJ
Aroclor 1242		230	U	19 J	35 U	U	170J	37 PJ	140 PJ
Aroclor 1248		UXJ	U	U	U	U	UXJ	U	UXJ
Aroclor 1254		UXJ	35	19 J	44	U	330 J	270	210 J
Aroclor 1260		20 J	18 J	18 J	U	U	170 PJY	32 PJ	87 JY
Total	1000/10000	250	53	56	79		670	339	437

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring G-7				Boring G-8				Boring G-9				
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	6-8	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)				
Aroclor 1016		U	U	U	UX	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	UX	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	U	U
Aroclor 1242		20 J	32 J	38	260000 D	950 D	4900 D	980 D	950 D	110	U	65	U	U
Aroclor 1248		U	U	U	UX	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	U	U
Aroclor 1254		22 J	160	150 PJ	270000 D	950 D	4800 DZJ	880 DZJ	900 DZJ	190	U	98	U	U
Aroclor 1260		U	38	57	20000 DJ	84	340	120	120 P	24 J	U	U	U	U
Total	1000/10000	44	230	245	**550000**	**1984**	**10040**	**1980**	**1970**	324		163		

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring G-10				Boring G-11				Boring G-14			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		35 PJ	U	U	U	U	U	U	U	37	U	U	U
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		150	U	U	U	U	U	U	U	38	20 J	U	U
Aroclor 1260		270	U	U	80	U	U	U	U	U	20 J	U	U
Total	1000/10000	455			80					75	40		

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring H-1										Boring H-2			
		0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)										(µg/kg)			
Aroclor 1016		UXJ	U	UXJ	UXJ	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	UXJ	UXJ	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1242		210	34 U	160	140	U	U	U	U	U	U	9400 D	U	U	37
Aroclor 1248		UXJ	U	UXJ	UXJ	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1254		79 ZJ	19 J	UXJ	U	U	U	U	U	U	U	2500 DJZ	U	U	U
Aroclor 1260		34 J	U	U	U	U	U	U	U	U	U	UXJ	U	U	U
Total	1000/10000	323	53	160	140							**11900**			37

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring H-3									Boring H-4			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		UXJ	U	U	U	U	U	U	U	U	UXJ	UXJ	U	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	U	U	U	U	U	UXJ	UXJ	U	UXJ
Aroclor 1242		960 D	30 J	18 J	20 J	U	U	U	U	U	3400 D	1500 D	58	2000 D
Aroclor 1248		UXJ	U	U	U	U	U	U	U	U	UXJ	UXJ	U	UXJ
Aroclor 1254		260 JZ	U	U	U	U	U	U	U	U	2800 DJZ	1000 DJZ	56 JZ	1700 DJZ
Aroclor 1260		69	U	U	U	U	U	U	U	U	280	88	U	150 PJ
Total	1000/10000	**1289**	30	18	20						**6480**	**2588**	114	**3850**

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring H-5									Boring H-6			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		UXJ	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		96	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248		UXJ	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		35	U	U	U	U	U	U	25 J	U	U	U	U	U
Aroclor 1260		U	U	U	U	U	U	U	U	U	U	U	U	U
Total	1000/10000	131							25					

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring H-7										Boring H-8			
		0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)										(µg/kg)			
Aroclor 1016		UXJ	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		100 PJ	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248		UXJ	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		45 JZ	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1260		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total	1000/10000	145													

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring H-9									
		0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)									
Aroclor 1016		UXJ	U	UXJ	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	UXJ	U	U	U	U	U	U	U
Aroclor 1242		170	U	150	18 J	U	19 J	U	U	U	U
Aroclor 1248		UXJ	U	UXJ	U	U	U	U	U	U	U
Aroclor 1254		82 ZJ	U	72 ZJ	U	U	U	U	U	U	U
Aroclor 1260		U	U	U	U	U	U	U	U	U	U
Total	1000/10000	252		222	18		19				

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring H-10									Boring H-12			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	UXJ	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	UXJ	U	U	U	U	U
Aroclor 1242		49 PJ	39	U	U	U	U	U	150	U	U	U	U	U
Aroclor 1248		U	U	U	U	U	U	U	UXJ	U	U	U	U	U
Aroclor 1254		43 JZ	41	U	U	U	U	U	UJ	U	510	140	U	240
Aroclor 1260		U	36	U	U	U	U	U	U	U	60	U	U	21 JP
Total	1000/10000	92	116						150		570	140		261

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring H-13								Boring H-14				
		0-2	2-4	4-6	6-8	8-10	18-20	38-40	58-60	0-2	2-4	4-6	6-8	8-10
	(µg/kg)	(µg/kg)								(µg/kg)				
Aroclor 1016		U	U	U	U	U	U	U	U	UXJ	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	UXJ	U	U	U	U
Aroclor 1242		U	U	U	U	U	U	U	U	100	U	27 J	U	U
Aroclor 1248		U	U	U	U	U	U	U	U	UXJ	U	U	U	U
Aroclor 1254		22 J	25 J	36	U	36	U	U	U	770	66 P	150 P	U	66
Aroclor 1260		U	18 J	18 J	U	U	U	U	U	140	27 J	60	U	21 J
Total	1000/10000	22	43	54		36				**1010**	93	237		87

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring I-1						Boring I-2				Boring I-3			
		0-2	2-4	4-6	6-8	8-10	18-20	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)						(µg/kg)				(µg/kg)			
Aroclor 1016		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	UXJ	UX	UXJ	UXJ	UXJ	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	UXJ	UX	UXJ	UXJ	UXJ	U
Aroclor 1242		550	750 D	6700 D	90000 D	19000 D	69000 D	580	19000 D	94000 D	31000 D	710 D	5200 D	770 D	19 J
Aroclor 1248		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	UXJ	UX	UXJ	UXJ	UXJ	U
Aroclor 1254		250 PJZ	330 JZ	UXJ	UXJ	UXJ	UXJ	450 JZ	U	UXJ	UX	250 JZ	UXJ	350 JZ	U
Aroclor 1260		75	51	UXJ	UXJ	UXJ	UXJ	130	U	UX	UX	58	UXJ	160	U
Total	1000/10000	875	**1131**	**6700**	**90000**	**19000**	**69000**	**1160**	**19000**	**94000**	**31000**	**1018**	**5200**	**1280**	19

New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring I-4				Boring I-5				Boring I-6			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		UXJ	U	U	UXJ	UXJ	U	UXJ	U	UXJ	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	UXJ	UXJ	U	UXJ	U	UXJ	U	U	U
Aroclor 1242		16000 D	21 J	35 U	2300 D	260	34 U	110	36 U	100	U	U	U
Aroclor 1248		UXJ	U	U	UXJ	UXJ	U	UXJ	U	UXJ	U	U	U
Aroclor 1254		UXJ	U	U	UXJ	UXJ	U	UXJ	U	82 JZ	U	U	U
Aroclor 1260		UXJ	U	U	UXJ	U	U	U	U	23 J	U	U	U
Total	1000/10000	**16000**	21	35	**2300**	260	34	110	36	205			

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring I-7					Boring I-8				Boring I-9				
		0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	6-8	8-10
	(µg/kg)	(µg/kg)					(µg/kg)				(µg/kg)				
Aroclor 1016		U	U	U	U	U	UXJ	UXJ	UXJ	UXJ	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	UXJ	UXJ	UXJ	UXJ	U	U	U	U	U
Aroclor 1242		U	U	U	U	24 J	280	130 J	75	120	39 P	U	U	U	U
Aroclor 1248		U	U	U	U	U	UXJ	UXJ	UX	UXJ	U	U	U	U	U
Aroclor 1254		U	U	U	U	43	200	470 J	4600	720	110	U	U	U	U
Aroclor 1260		U	U	U	U	18 J	130	140 J	800 P	130	60	U	U	U	U
Total	1000/10000					85	610	740	**5475**	970	209				

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring I-10					Boring I-11					Boring I-12				
		0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10
	(µg/kg)	(µg/kg)					(µg/kg)					(µg/kg)				
Aroclor 1016		U	U	UXJ	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	UXJ	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		U	U	91	24 J	41	U	U	U	U	U	U	U	U	U	U
Aroclor 1248		U	U	UXJ	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		52	33 J	110	410	150	U	U	U	U	U	110	96	21 J	210	390
Aroclor 1260		58	20 J	72	140	52	U	U	U	U	U	60	84	U	120	250
Total	1000/10000	110	55	271	574	243						170	180	21	330	640

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring J-1										Boring J-2			
		0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)										(µg/kg)			
Aroclor 1016		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1242		13000 D	16000 D	3500 D	5300 D	8300 D	3000 D	U	U	U	U	2900 D	20000 DP	2400 D	3800 D
Aroclor 1248		UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	U	U	UXJ	UXJ	UXJ	UXJ
Aroclor 1254		UXJ	UXJ	1500 DZJ	1800 DZJ	UXJ	1800 DZJ	U	22 PJ	U	U	1500 DZ	4100 DZ	UXJ	UXJ
Aroclor 1260		530	UXJ	530	200	UXJ	300	U	37 U	U	U	150	UXJ	UXJ	UXJ
Total	1000/10000	**13530**	**16000**	**5530**	**7300**	**8300**	**5100**		59			**4550**	**24100**	**2400**	**3800**

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring J-3								Boring J-4			
		2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)								(µg/kg)			
Aroclor 1016		UXJ	UXJ	U	U	U	U	U	U	U	U	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	U	U	U	U	U	U	U	U	UXJ	UXJ
Aroclor 1242		230	1300 D	U	U	U	U	U	U	20 J	U	1400 D	230
Aroclor 1248		UXJ	UXJ	U	U	U	U	U	U	U	U	UXJ	UXJ
Aroclor 1254		UXJ	UXJ	U	U	U	U	U	U	U	U	390 PZJ	100 ZJ
Aroclor 1260		U	59	U	U	U	U	U	U	27 J	U	140 PJ	30 PJ
Total	1000/10000	230	**1359**							47		**1930**	360

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring J-5									Boring J-6			
		0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)									(µg/kg)			
Aroclor 1016		UXJ	UXJ	UXJ	U	U	U	U	U	U	U	UXJ	U	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	UXJ	U	U	U	U	U	U	U	UXJ	U	UXJ
Aroclor 1242		69	190	170	U	U	U	28 J	U	U	25 J	800 D	U	150
Aroclor 1248		UXJ	UXJ	UXJ	U	U	U	U	U	U	U	U	U	UXJ
Aroclor 1254		98	160 ZJ	66 ZJ	U	U	33 J	50	U	U	34 U	310 JZ	U	150
Aroclor 1260		21 J	47	20 J	U	U	U	U	U	U	U	120	U	64
Total	1000/10000	188	397	256			33	78			59	**1230**		364

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring J-7										Boring J-8			
		0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)										(µg/kg)			
Aroclor 1016		UXJ	UXJ	U	U	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	U	U	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1242		180	140	U	U	U	U	U	U	U	U	140	71	37	19 J
Aroclor 1248		UXJ	UXJ	U	U	U	U	U	U	U	U	UXJ	U	U	U
Aroclor 1254		270	68 ZPJ	U	U	U	U	U	U	U	U	130	86	82	190
Aroclor 1260		42	36	U	U	U	U	U	U	U	U	34 J	26 J	31 J	18 J
Total	1000/10000	492	244									304	183	150	227

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring J-9										Boring J-10			
		0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)										(µg/kg)			
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U	U	UXJ	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U	U	UXJ	UXJ
Aroclor 1242		U	18 J	U	U	U	U	U	U	U	U	U	U	370	48
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U	U	UXJ	UXJ
Aroclor 1254		34 J	U	U	U	U	U	20 J	U	U	U	U	U	UXJ	U
Aroclor 1260		U	U	U	U	U	U	U	U	U	U	U	U	31 J	U
Total	1000/10000	34	18					20						401	48

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring K-4					Boring K-5					Boring K-6				
		0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10
	(µg/kg)	(µg/kg)					(µg/kg)					(µg/kg)				
Aroclor 1016		U	U	U	U	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	UXJ	UXJ	U	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	UXJ	UXJ	U	UXJ
Aroclor 1242		47	U	28 J	62	510	570	68	100	90	20 J	51	670	120	21 J	79
Aroclor 1248		U	U	U	U	UXJ	UXJ	UXJ	UXJ	UXJ	U	U	UXJ	UXJ	U	UXJ
Aroclor 1254		U	U	U	28 J	UXJ	180 PZ	63	65	36	U	44	UXJ	79	37	29 J
Aroclor 1260		U	U	U	U	33 J	39 PJ	U	U	U	U	22 J	25 PJ	U	U	U
Total	1000/10000	47		28	90	543	789	131	165	126	20	117	695	199	58	108

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring K-7					Boring K-8					
		0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10	18-20
	(µg/kg)	(µg/kg)					(µg/kg)					
Aroclor 1016		UXJ	U	UXJ	U	U	UXJ	UXJ	UXJ	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	UXJ	U	U	UXJ	UXJ	UXJ	U	U	U
Aroclor 1242		300	96	170	41	41	260	240	110	26 J	64	26 J
Aroclor 1248		UXJ	U	UXJ	U	U	UXJ	UXJ	UXJ	U	U	U
Aroclor 1254		150	100	150	45	37	2600	87	59	530	200	21 PJ
Aroclor 1260		34	33 PJ	25 J	U	U	260	32 PJ	U	81	68	U
Total	1000/10000	484	229	345	86	78	**3120**	359	169	637	332	47

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring K-9				
		0-2	2-4	4-6	6-8	8-10
	(µg/kg)	(µg/kg)				
Aroclor 1016		UXJ	UXJ	U	U	U
Aroclor 1221		U	U	U	U	U
Aroclor 1232		UXJ	UXJ	U	U	U
Aroclor 1242		110	20000 D	19 J	46	38
Aroclor 1248		UXJ	UXJ	U	U	U
Aroclor 1254		89	U	1000	490	220
Aroclor 1260		22 PJ	U	120	82	34 J
Total	1000/10000	221	**20000**	**1139**	618	292

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring L-4				Boring L-5							
		0-2	2-4	4-6	8-10	0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)				(µg/kg)							
Aroclor 1016		U	U	U	U	UXJ	U	UXJ	UXJ	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	UXJ	U	UXJ	UXJ	U	U	U	U
Aroclor 1242		34	U	U	U	800 DPJ	U	130	340	25 J	U	U	U
Aroclor 1248		U	U	U	U	UXJ	U	UXJ	UXJ	U	U	U	U
Aroclor 1254		110	U	U	U	310 JZ	U	60 JZ	170 JZ	30 PJ	U	U	U
Aroclor 1260		53 P	U	U	U	47	U	23 J	51	U	U	U	U
Total	1000/10000	197				**1157**		213	561	55			

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring L-6					Boring L-7							
		0-2	2-4	4-6	8-10	10-12	0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)					(µg/kg)							
Aroclor 1016		UXJ	U	U	U	U	UXJ	UXJ	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	U	UXJ	UXJ	U	U	U	U	U	U
Aroclor 1242		190	U	U	U	U	280	120	U	28 PJ	U	U	U	U
Aroclor 1248		UXJ	U	U	U	U	UXJ	UXJ	U	U	U	U	U	U
Aroclor 1254		UXJ	U	20 J	U	U	360	UXJ	U	U	U	U	U	U
Aroclor 1260		34	U	U	U	U	41	U	U	U	U	U	U	U
Total	1000/10000	224		20			681	120		28				

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring L-8				Boring L-9							
		0-2	2-4	4-6	8-10	0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)				(µg/kg)							
Aroclor 1016		U	U	U	U	UXJ	U	U	UXJ	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	UXJ	U	U	UXJ	U	U	U	U
Aroclor 1242		27 J	U	U	U	750	U	U	2100	27 J	U	U	U
Aroclor 1248		U	U	U	U	UXJ	U	U	UXJ	U	U	U	U
Aroclor 1254		24 J	U	U	23 J	UXJ	U	U	UXJ	U	U	U	U
Aroclor 1260		22 J	U	U	U	30 J	U	U	66	U	U	U	U
Total	1000/10000	73			23	780			**2166**	27			

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring M-4				Boring M-5				Boring M-6			
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)			
Aroclor 1016		UXJ	U	U	U	UXJ	UXJ	UXJ	U	UXJ	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	UXJ	UXJ	UXJ	U	UXJ	U	U	U
Aroclor 1242		9100	24 J	34 U	36	840	230	250		3300	U	U	U
Aroclor 1248		UXJ	U	U	U	UXJ	UXJ	UXJ	U	UXJ	U	U	U
Aroclor 1254		UXJ	U	U	U	UXJ	230 P	66	U	UXJ	U	U	U
Aroclor 1260		220	36 U	34 U	35 U	35	34 U	34 U	U	61	U	U	U
Total	1000/10000	**9320**	60	68	71	875	494	350		**3361**			

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring M-7				Boring M-8				Boring M-9				
		0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10	10-12
	(µg/kg)	(µg/kg)				(µg/kg)				(µg/kg)				
Aroclor 1016		UXJ	U	UXJ	U	UXJ	U	UXJ	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	UXJ	U	UXJ	U	UXJ	U	U	U	U	U	U
Aroclor 1242		190	U	110	U	77	U	180	U	24 J	U	U	U	U
Aroclor 1248		UXJ	U	UXJ	U	UXJ	U	UXJ	U	U	U	U	U	U
Aroclor 1254		U	U	100	U	62	U	29	U	31 J	U	U	U	U
Aroclor 1260		U	U		U	21 J	U	U	U	38	U	U	U	U
Total	1000/10000	190		210		160		209		93				

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring N-4					Boring N-5							
		0-2	2-4	4-6	8-10	10-12	0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)					(µg/kg)							
Aroclor 1016		UXJ	UXJ	U	U	U	UXJ	U	U	UXJ	UXJ	UXJ	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	U	U	U	UXJ	U	U	UXJ	UXJ	UXJ	U	U
Aroclor 1242		1500 D	230	U	U	42	4200 E	30 J	33 J	240	210	54	U	U
Aroclor 1248		UXJ	UXJ	U	U	U	UXJ	U	U	UXJ	UXJ	UXJ	U	U
Aroclor 1254		UXJ	U	U	U	U	UXJ	U	30 J	69	63 P	31 J	U	U
Aroclor 1260		85	21 J	U	U	U	170	U	U	U	U	U	U	U
Total	1000/10000	**1585**	251			42	**4370**	30	63	309	273	85		

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring N-6				Boring N-7							
		0-2	2-4	4-6	8-10	0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)				(µg/kg)							
Aroclor 1016		UXJ	UXJ	UXJ	U	UXJ	U	U	UXJ	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	UXJ	UXJ	U	UXJ	U	U	UXJ	U	U	U	U
Aroclor 1242		3600	76	93	U	140	23 J	35 U	110	21 J	64	U	U
Aroclor 1248		UXJ	UXJ	UXJ	U	UXJ	U	U	UXJ	U	U	U	U
Aroclor 1254		UXJ	39	100	U	240	66	31 J	UXJ	U	38	U	U
Aroclor 1260		130	30 J	U	U	U	29 J	18 J	U	U	U	U	U
Total	1000/10000	**3730**	145	193		380	118	84	110	21	102		

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring N-8				Boring N-9								
		0-2	2-4	4-6	8-10	0-2	2-4	8-10	10-12	18-20	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)				(µg/kg)								
Aroclor 1016		UXJ	U	U	U	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U
Aroclor 1242		120	U	U	U	6500 D	35000 D	170	5300 E	470	110	72	200	U
Aroclor 1248		UXJ	U	U	U	UXJ	UXJ	UX	UXJ	UXJ	UXJ	UXJ	UXJ	U
Aroclor 1254		U	U	U	U	UXJ	U	1200 J	6400 E	2800	620	360	170	U
Aroclor 1260		U	U	U	U	U	4U	120	470	210	48	29 J	U	U
Total	1000/10000	120				**6500**	**35000**	**1490**	**12170**	**3480**	940	461	370	

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.1 (continued). PCB SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	Boring N-8				Boring N-9								
		0-2	2-4	4-6	8-10	0-2	2-4	8-10	10-12	18-20	28-30	38-40	48-50	58-60
	(µg/kg)	(µg/kg)				(µg/kg)								
Aroclor 1016		UXJ	U	U	U	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UXJ	U	U	U	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	UXJ	U
Aroclor 1242		120	U	U	U	6500 D	35000 D	170	5300 E	470	110	72	200	U
Aroclor 1248		UXJ	U	U	U	UXJ	UXJ	UX	UXJ	UXJ	UXJ	UXJ	UXJ	U
Aroclor 1254		U	U	U	U	UXJ	U	1200 J	6400 E	2800	620	360	170	U
Aroclor 1260		U	U	U	U	U	4U	120	470	210	48	29 J	U	U
Total	1000/10000	120				**6500**	**35000**	**1490**	**12170**	**3480**	940	461	370	

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 4.2.2. METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring A-1								Boring A-2							
			0-2		2-4		4-6		8-10		0-2		2-4		4-6		8-10	
			TOB018		TOB018		TOB018		TOB018		TOB018		TOB018		TOB018		TOB018	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.18**	NR	0.058	RU N	0.052	RU N	0.052	RU N	**0.28**	RN	**0.28**	RN	**0.15**	RN	0.052	RU N
Aluminum	SB	33,000	5890	J*							10100	J*						
Antimony	SB	N/A	0.66	U							0.88	B						
Arsenic	7.5 or SB	3 - 12	7.5	JN	2.9	JN	1.1	JN	0.92	JBN	**13.5**	JN	10.1	JN	5.7	JN	1.4	JN
Barium	300 or SB	15 - 600	23.5		47.7		10.8	B	8.1	B	39.8		25.2		34.6		11.1	B
Beryllium	0.16 or SB	0 - 1.75	0.11	B							**0.21**	B						
Calcium	SB	130 – 35,000	643								1050							
Cadmium	10	0.1 - 1	0.39	B	0.26	B	0.069	U	0.068	U	0.46	B	0.20	B	0.22	B	0.068	U
Chromium	50	1.5 - 40	8.8		16.4		3.9		7.2		16.6		11.3		12.5		8.9	
Cobalt	30 or SB	2.5 - 60	2.0	B							3.0	B						
Copper	25 or SB	1 - 50	11.9								21.6							
Iron	2,000 or SB	2,000 – 550,000	**7170**	*							**12100**	*						
Lead	400	200 - 500	31.1	N*R	8.8	N*R	2.1	N*R	2.3	N*R	51.1	RN*	16.7	RN*	16.1	RN*	4.1	RN*
Magnesium	SB	100 – 5,000	607	J*							989	J*						
Manganese	SB	50 – 5,000	84.8	J*							161	J*						
Nickel	13 or SB	0.5 - 25	3.9	B							6.0							
Potassium	SB	8,500 – 43,000	176	B							283	B						
Selenium	2 or SB	0.1 - 3.9	0.61		0.54	U	0.49	U	0.49	U	0.58		0.52	U	0.54	U	0.49	U
Silver	SB	N/A	0.16	B	0.16	U	0.14	U	0.14	U	0.47	B	0.15	U	0.15	U	0.14	U
Sodium	SB	6,000 - 8,000	20.6	B							33.9	B						
Thallium	SB	N/A	0.46	U							0.87	B						
Vanadium	150 or SB	1 - 300	12.1	J*							21.1	J*						
Zinc	20 or SB	9 - 50	**76.2**	J*							**67.3**	J*						
Chromium (VI)	50	1.5 - 40	1.1	U							1.1	U						
Cyanide	**	--	0.57	U							0.57	U						

(1) - New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring A-3								Boring A-4							
			0-2		2-4		4-6		8-10		0-2		2-4		4-6		8-10	
			TOB018		TOB018		TOB018		TOB018		TOB012		TOB012		TOB012		TOB012	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.26**	RN	0.053	URN	0.085	RBN	0.052	URN	**0.25**		0.052	U	0.054	U	0.051	U
Aluminum	SB	33,000	8680	J*							8860	J*						
Antimony	SB	N/A	0.67	U							0.36	U						
Arsenic	7.5 or SB	3 - 12	**10.5**	JN	7.1	JN	2.7	JN	2.0	JN	10.2	J*	1.3	J*	2.8	J*	0.66	JB*
Barium	300 or SB	15 - 600	28.3		9.0	B	11.4	B	10.5	B	17.8	B	6.9	B	17.4	B	10.2	B
Beryllium	0.16 or SB	0 - 1.75	0.16	B							1.9	JU						
Calcium	SB	130 – 35,000	882								3450	J*						
Cadmium	10	0.1 - 1	0.39	B	0.12	B	0.15	B	0.17	B	0.25	B	0.038	U	0.11	B	0.18	B
Chromium	50	1.5 - 40	13.7		8.6		5.6		8.0		9.3	J*	3.9	J*	6.9	J*	3.4	J*
Cobalt	30 or SB	2.5 - 60	2.4	B							3.2	B						
Copper	25 or SB	1 - 50	18.7								11.6	J*						
Iron	2,000 or SB	2,000 – 550,000	**10500**	*							**10900**							
Lead	400	200 - 500	41.3	RN*	3.6	RN*	5.9	RN*	3.4	RN*	17.8	J*	2.8	J*	2.9	J*	1.8	J*
Magnesium	SB	100 – 5,000	780	J*							895							
Manganese	SB	50 – 5,000	127	J*							134							
Nickel	13 or SB	0.5 - 25	4.9								5.0							
Potassium	SB	8,500 – 43,000	286	B							279	JBE						
Selenium	2 or SB	0.1 - 3.9	0.60		0.50	U	0.50	U	0.49	U	0.59	U	0.56	U	0.57	U	0.55	U
Silver	SB	N/A	0.30	B	0.14	U	0.15	B	0.14	U	0.39	U	0.37	U	0.38	U	0.36	U
Sodium	SB	6,000 - 8,000	26.4	B							38.3	B						
Thallium	SB	N/A	0.86	B							0.90	B						
Vanadium	150 or SB	1 - 300	18.5	J*							15.8							
Zinc	20 or SB	9 - 50	**64.8**	J*							**32.7**	J*						
Chromium (VI)	50	1.5 - 40	1.2	U							1.1	U						
Cyanide	**	–	0.58	U							0.55	U						

(1) - New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring A-5								Boring A-6							
			0-2		2-4		4-6		8-10		0-2		2-4		4-6		8-10	
			TOB015		TOB015		TOB015		TOB015		TOB013		TOB013		TOB013		TOB013	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.40**		0.051	U	0.051	U	0.070	B	**0.25**		0.055	U	0.054	U	0.053	U
Aluminum	SB	33,000	6680	J*							9040	J*						
Antimony	SB	N/A	0.38	B							0.36	U						
Arsenic	7.5 or SB	3 - 12	**15.1**		0.91	B	1.0	B	3.1		**9.8**	J*	3.0	J*	3.2	J*	7.1	J*
Barium	300 or SB	15 - 600	26.6		3.2	B	4.0	B	8.6	B	22.8		17.8	B	17.7	B	28.0	
Beryllium	0.16 or SB	0 - 1.75	1.9	JU							1.9	JU						
Calcium	SB	130 – 35,000	717	JE							707	JE						
Cadmium	10	0.1 - 1	0.64		0.038	U	0.047	B	0.12	B	0.45	B	0.060	B	0.099	B	0.34	B
Chromium	50	1.5 - 40	19.3	RN	2.8	RN	2.7	RN	7.0	RN	16.4	J*	11.7	J*	9.9	J*	16.9	J*
Cobalt	30 or SB	2.5 - 60	1.6	B							4.6	B						
Copper	25 or SB	1 - 50	**32.2**								23.3	J*						
Iron	2,000 or SB	2,000 – 550,000	**10400**								**11900**	J*						
Lead	400	200 - 500	36.7	J*	0.87	J*	1.4	J*	6.9	J*	34.4	J*	3.6	J*	8.7	J*	29.7	J*
Magnesium	SB	100 – 5,000	576								903							
Manganese	SB	50 – 5,000	131	JN							143	J*						
Nickel	13 or SB	0.5 - 25	3.9	B							6.5							
Potassium	SB	8,500 – 43,000	274	JBE							252	JBE						
Selenium	2 or SB	0.1 - 3.9	0.60	U	0.55	U	0.55	U	0.55	U	0.59	UN	0.59	UN	0.58	UN	0.57	UN
Silver	SB	N/A	1.5		0.37	U	0.37	U	0.37	U	1.5		0.39	U	0.38	U	1.4	
Sodium	SB	6,000 - 8,000	26.9	B							34.3	B						
Thallium	SB	N/A	0.56	U							0.72	B						
Vanadium	150 or SB	1 - 300	16.8								17.2	J*						
Zinc	20 or SB	9 - 50	**60.0**	J*E							**86.0**	JN*E						
Chromium (VI)	50	1.5 - 40	1.1	U							1.1	U						
Cyanide	**	–	0.56	U							0.55	U						

(1) - New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring A-7								Boring A-8							
			0-2		2-4		4-6		8-10		0-2		2-4		4-6		8-10	
			TOB015		TOB015		TOB015		TOB015		TOB024		TOB024		TOB024		TOB024	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.18**		0.058	U	0.053	U	0.051	U	**0.26**		0.054	U	0.051	U	0.051	U
Aluminum	SB	33,000	7600	J*							7990	J*						
Antimony	SB	N/A	0.38	B							0.41	B						
Arsenic	7.5 or SB	3 - 12	**10.0**		3.0		2.0		1.2		**22.2**		2.2		1.1		1.6	
Barium	300 or SB	15 - 600	22.3		27.5		13.4	B	10.2	B	36.5		8.8	B	3.8	B	6.0	B
Beryllium	0.16 or SB	0 - 1.75	1.9	JU							1.9	JU						
Calcium	SB	130 – 35,000	595	JE							536	JBE						
Cadmium	10	0.1 - 1	0.19	B	0.042	U	0.059	B	0.037	U	0.28	B	0.065	B	0.053	B	0.037	U
Chromium	50	1.5 - 40	16.5	NR	12.7	NJR	7.6	NJR	13.0	NJR	12.4	J*	6.8	*	2.5	*	16.9	*
Cobalt	30 or SB	2.5 - 60	2.7	B							2.0	B						
Copper	25 or SB	1 - 50	12.6								23.0							
Iron	2,000 or SB	2,000 – 550,000	**10200**	J							**10500**	*						
Lead	400	200 - 500	37.9	*	3.9	RJ*	2.5	RJ*	1.1	RJ*	36.9	RN*	2.5	N*	0.64	N*	0.68	N*
Magnesium	SB	100 – 5,000	738								753							
Manganese	SB	50 – 5,000	136	JN							126	RN*						
Nickel	13 or SB	0.5 - 25	5.4								4.8							
Potassium	SB	8,500 – 43,000	263	JBE							225	JBE						
Selenium	2 or SB	0.1 - 3.9	0.59	U	0.62	U	0.57	U	0.55	U	0.71		0.58	U	0.55	U	0.55	U
Silver	SB	N/A	0.41	B	0.41	U	0.38	U	0.37	U	0.90	B	0.38	U	0.36	U	0.37	U
Sodium	SB	6,000 - 8,000	28.6	B							30.8	B						
Thallium	SB	N/A	0.55	U							0.55	U						
Vanadium	150 or SB	1 - 300	15.8								16.3							
Zinc	20 or SB	9 - 50	**74.4**	*EJ							**34.5**	*						
Chromium (VI)	50	1.5 - 40	1.1	U							5.5	U						
Cyanide	**	–	0.55	U							0.55	JU						

(1) - New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring A-9								Boring A-10							
			0-2		2-4		4-6		8-10		0-2		2-4		4-6		8-10	
			TOB024		TOB024		TOB024		TOB024		TOB024		TOB024		TOB024		TOB024	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.16**		0.081	B	0.098	B	0.051	U	**0.13**		0.052	U	0.051	U	0.056	B
Aluminum	SB	33,000	5420	J*							3640	J*						
Antimony	SB	N/A	0.40	B							0.35	U						
Arsenic	7.5 or SB	3 - 12	**8.8**		4.2		**26.1**		**9.8**		**7.9**		4.0		2.7		2.3	
Barium	300 or SB	15 - 600	37.5		25.5		30.6		17.1	B	16.0	B	15.4	B	12.1	B	10.5	B
Beryllium	0.16 or SB	0 - 1.75	1.8	JU							1.8	JU						
Calcium	SB	130 – 35,000	3270	JE							94.9	JBE						
Cadmium	10	0.1 - 1	0.72		0.089	B	0.22	B	0.13	B	0.055	B	0.10	B	0.076	B	0.23	B
Chromium	50	1.5 - 40	11.5	*	7.1	J*	14.8	J*	8.8	J*	29.8	J*	8.3	J*	5.3	J*	9.8	J*
Cobalt	30 or SB	2.5 - 60	2.3	B							1.1	B						
Copper	25 or SB	1 - 50	20.6								4.5							
Iron	2,000 or SB	2,000 – 550,000	**8930**	J*							**7250**	J*						
Lead	400	200 - 500	239	RN*	13.5	RN*	32.3	RN*	22.3	RN*	6.8	RN*	12.6	RN*	10.3	RN*	9.8	RN*
Magnesium	SB	100 – 5,000	1940								403	B						
Manganese	SB	50 – 5,000	148	RN*							184	RN*						
Nickel	13 or SB	0.5 - 25	9.4								2.1	B						
Potassium	SB	8,500 – 43,000	233	JBE							148	JBE						
Selenium	2 or SB	0.1 - 3.9	0.57	U	0.64	U	0.60	U	0.55	U	0.56	U	0.56	U	0.55	U	0.55	U
Silver	SB	N/A	1.1		0.43	U	0.42	B	0.37	U	0.38	U	0.37	U	0.37	U	0.37	U
Sodium	SB	6,000 - 8,000	38.4	B							20.7	B						
Thallium	SB	N/A	0.53	U							0.53	U						
Vanadium	150 or SB	1 - 300	15.7								16.0							
Zinc	20 or SB	9 - 50	77.5	J*							12.3	J*						
Chromium (VI)	50	1.5 - 40	5.3	U							5.3	U						
Cyanide	**	--	0.53	U							0.53	U						

(1) - New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring A-11							
			0-2		2-4		4-6		8-10	
			TOB025		TOB025		TOB025		TOB025	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.086	RB N	0.051	RU N	0.051	RU N	0.051	RU N
Aluminum	SB	33,000	5640							
Antimony	SB	N/A	0.60	U						
Arsenic	7.5 or SB	3 - 12	5.3		1.7		0.70	B	0.79	B
Barium	300 or SB	15 - 600	25.1		9.4	B	3.7	B	49.7	
Beryllium	0.16 or SB	0 - 1.75	0.16	B						
Calcium	SB	130 – 35,000	1090	J*						
Cadmium	10	0.1 - 1	0.27	B	0.067	U	0.067	U	0.067	U
Chromium	50	1.5 - 40	10.8		3.3		1.8		2.5	
Cobalt	30 or SB	2.5 - 60	2.8	B						
Copper	25 or SB	1 - 50	10.9	JN						
Iron	2,000 or SB	2,000 – 550,000	**7950**							
Lead	400	200 - 500	50.2	J*	6.5	J*	0.90	J*	3.3	J*
Magnesium	SB	100 – 5,000	738							
Manganese	SB	50 – 5,000	153							
Nickel	13 or SB	0.5 - 25	4.1	B						
Potassium	SB	8,500 – 43,000	231	JBE						
Selenium	2 or SB	0.1 - 3.9	0.80	JN	0.69	JN	0.48	JUN	0.48	JUN
Silver	SB	N/A	0.28	JBN	0.14	JUN	0.14	JUN	0.14	JUN
Sodium	SB	6,000 - 8,000	28.6	B						
Thallium	SB	N/A	0.42	U						
Vanadium	150 or SB	1 - 300	12.2							
Zinc	20 or SB	9 - 50	**50.2**							
Chromium (VI)	50	1.5 - 40	1	U						
Cyanide	**	–	0.52	U						

(1) - New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring B-1											
			0-2		2-4		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB020		TOB020		TOB020		TOB020		TOB020		TOB020		TOB020		TOB020	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.054	U	0.051	U	0.052	U	0.052	U	0.052	U	0.053	U	0.053	U	0.053	U
Aluminum	SB	33,000					2340											
Antimony	SB	N/A					0.60	U										
Arsenic	7.5 or SB	3 - 12	2.1		0.81	B	1.2		1.3		1.4		0.31	U	0.32	U	1.4	
Barium	300 or SB	15 - 600	24.1		8.2	B	11.2	B	13.2	B	6.9	B	3.0	B	1.7	B	1.7	B
Beryllium	0.16 or SB	0 - 1.75					0.15	JB										
Calcium	SB	130 – 35,000					8490											
Cadmium	10	0.1 - 1	0.17	B	0.067	U	0.068	U	0.068	U	0.068	U	0.069	U	0.070	U	0.069	U
Chromium	50	1.5 - 40	13.2		9.0		16.9		21.3		7.8		2.9		1.5		2.0	
Cobalt	30 or SB	2.5 - 60					1.9	B										
Copper	25 or SB	1 - 50					6.0											
Iron	2,000 or SB	2,000 – 550,000					**6710**											
Lead	400	200 - 500	5.1		2.1		2.8		2.8		1.4		1.2		0.98		0.86	
Magnesium	SB	100 – 5,000					556											
Manganese	SB	50 – 5,000					73.5											
Nickel	13 or SB	0.5 - 25					3.6	B										
Potassium	SB	8,500 – 43,000					288	B										
Selenium	2 or SB	0.1 - 3.9	0.51	UN	0.48	UN	0.48	UN	0.49	UN	0.48	UN	0.49	UN	0.50	UN	0.50	UN
Silver	SB	N/A	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Sodium	SB	6,000 - 8,000					68.8	B										
Thallium	SB	N/A					0.41	U										
Vanadium	150 or SB	1 - 300					6.7											
Zinc	20 or SB	9 - 50					14.6	JE										
Chromium (VI)	50	1.5 - 40					2.1											
Cyanide	**	–					0.52	JU										

(1) - New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring B-3								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB019	TOB019	TOB019	TOB019	TOB019	TOB019	TOB019	TOB019	TOB019
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.39**	0.052 U	0.051 U	0.052 U	**0.16**	0.052 U	0.054 U	0.053 U	0.055 U
Aluminum	SB	33,000									747 J*
Antimony	SB	N/A									0.36 U
Arsenic	7.5 or SB	3 - 12	**12.2**	0.72 B	1.5	0.73 B	**8.7**	2.2	1.2	**10.4**	**8.7**
Barium	300 or SB	15 - 600	23.9	4.2 B	4.9 B	7.9 B	44.5	7.1 B	10.4 B	3.8 B	3.4 B
Beryllium	0.16 or SB	0 - 1.75									1.9 UJ
Calcium	SB	130 – 35,000									51.0 B
Cadmium	10	0.1 - 1	0.25 B	0.049 B	0.037 U	0.038 U	0.30 B	0.057 B	0.050 B	0.15 B	0.14 B
Chromium	50	1.5 - 40	10.0 J*	2.4 J*	4.4 J*	4.4 J*	18.8 J*	10.8 *	9.1 J*	15.4 *	9.8 J*
Cobalt	30 or SB	2.5 - 60									0.23 B
Copper	25 or SB	1 - 50									1.6 B
Iron	2,000 or SB	2,000 – 550,000									**11700** J*
Lead	400	200 - 500	23.1	0.70	0.69	1.3	23.7	1.6	3.9	0.58	0.77
Magnesium	SB	100 – 5,000									32.7 B
Manganese	SB	50 – 5,000									13.0 J*
Nickel	13 or SB	0.5 - 25									0.49 B
Potassium	SB	8,500 – 43,000									73.4 B
Selenium	2 or SB	0.1 - 3.9	0.61 U	0.55 U	0.55 U	0.56 U	0.59 U	0.56 U	0.58 U	0.57 U	0.59 U
Silver	SB	N/A	0.41 U	0.37 U	0.37 U	0.37 U	0.40 U	0.37 U	0.38 U	0.38 U	0.40 U
Sodium	SB	6,000 - 8,000									8.2 B
Thallium	SB	N/A									0.55 U
Vanadium	150 or SB	1 - 300									7.4
Zinc	20 or SB	9 - 50									7.5
Chromium (VI)	50	1.5 - 40									1.3
Cyanide	**	--									0.55 U

(1) - New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring B-5															
			0-2		2-4		4-6		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB025		TOB025		TOB025		TOB025		TOB025		TOB025		TOB025		TOB025		TOB025	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.15**	RN	0.054	RU N	0.051	RU N	0.051	RU N	0.051	RU N	0.051	RU N	0.055	RU N	0.054	RU N	0.054	RU N
Aluminum	SB	33,000	7530																	
Antimony	SB	N/A	0.63	B																
Arsenic	7.5 or SB	3 - 12	6.4		3.8		0.37	B	0.30	U	1.8		0.57	B	1.2		1.6		0.32	U
Barium	300 or SB	15 - 600	24.8		31.5		4.4	B	3.9	B	7.6	B	5.0	B	1.6	B	2.5	B	1.9	B
Beryllium	0.16 or SB	0 - 1.75	**0.19**	B																
Calcium	SB	130 – 35,000	4280	J*																
Cadmium	10	0.1 - 1	2.8		0.46	B	0.17	B	0.067	U	0.067	U	0.067	U	0.072	U	0.071	U	0.070	U
Chromium	50	1.5 - 40	23.6		15.0		2.6		1.5		12.0		1.7		1.6		3.2		0.50	B
Cobalt	30 or SB	2.5 - 60	2.8	B																
Copper	25 or SB	1 - 50	42.9	JN																
Iron	2,000 or SB	2,000 – 550,000	**9010**																	
Lead	400	200 - 500	43.9	*	9.6	J*	1.2	J*	1.6	J*	1.8	J*	0.57	J*	1.5	J*	1.4	J*	0.90	J*
Magnesium	SB	100 – 5,000	931																	
Manganese	SB	50 – 5,000	137																	
Nickel	13 or SB	0.5 - 25	6.2																	
Potassium	SB	8,500 – 43,000	296	JBE																
Selenium	2 or SB	0.1 - 3.9	0.98	JN	0.51	JUN	0.48	JUN	0.48	JUN	0.48	JUN	0.48	JUN	0.52	JUN	0.51	JUN	0.51	JUN
Silver	SB	N/A	3.6	JN	0.37	JBN	0.14	JUN	0.14	JUN	0.14	JUN	0.14	JUN	0.15	JUN	0.15	JUN	0.15	JUN
Sodium	SB	6,000 - 8,000	29.3	B																
Thallium	SB	N/A	0.42	U																
Vanadium	150 or SB	1 - 300	16.7																	
Zinc	20 or SB	9 - 50	**42.7**																	
Chromium (VI)	50	1.5 - 40	2.1	U																
Cyanide	**	--	0.52	U																

(1) - New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring B-7											
			0-2		2-4		8-10		18-20		38-40		48-50		58-60	
			TOB020		TOB020		TOB020		TOB020		TOB020		TOB020		TOB020	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.089	B	0.054	U	0.051	U	0.051	U	0.053	U	0.052	U	0.059	U
Aluminum	SB	33,000	6590													
Antimony	SB	N/A	0.62	U												
Arsenic	7.5 or SB	3 - 12	7.4		2.2		0.71	B	0.31	U	**30.2**		**16.5**		0.75	B
Barium	300 or SB	15 - 600	18.7	JB	19.8	B	6.2	B	9.1	B	3.7	B	3.9	B	1.1	B
Beryllium	0.16 or SB	0 - 1.75	0.18	B												
Calcium	SB	130 – 35,000	670													
Cadmium	10	0.1 - 1	0.10	B	0.071	U	0.067	U	0.067	U	0.069	U	0.068	U	0.078	U
Chromium	50	1.5 - 40	13.5		8.4		8.4		3.8		**66.0**		24.6		0.38	B
Cobalt	30 or SB	2.5 - 60	2.5	B												
Copper	25 or SB	1 - 50	13.7													
Iron	2,000 or SB	2,000 – 550,000	**11300**													
Lead	400	200 - 500	23.3		4.5		2.3		0.72		10.3		6.2		0.87	
Magnesium	SB	100 – 5,000	705													
Manganese	SB	50 – 5,000	115													
Nickel	13 or SB	0.5 - 25	4.7													
Potassium	SB	8,500 – 43,000	248	B												
Selenium	2 or SB	0.1 - 3.9	0.57	JN	0.51	UN	0.48	UN	0.48	UN	0.49	UN	0.49	UN	0.56	UN
Silver	SB	N/A	0.39	B	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.16	U
Sodium	SB	6,000 - 8,000	26.2	B												
Thallium	SB	N/A	0.43	U												
Vanadium	150 or SB	1 - 300	16.8													
Zinc	20 or SB	9 - 50	**23.0**	JE												
Chromium (VI)	50	1.5 - 40	1.1	U												
Cyanide	**	–	0.54	UJ												

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring B-9								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB022	TOB022	TOB022	TOB022	TOB022	TOB022	TOB022	TOB022	TOB022
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.052 U	0.054 U	0.052 U	0.050	0.052 U	0.054 U	0.053 U	0.060 U
Aluminum	SB	33,000			4240						
Antimony	SB	N/A			0.35 U						
Arsenic	7.5 or SB	3 - 12	1.8	3.5	2.3	1.8	0.75	**61.7** R	**108** R	3.0	2.0
Barium	300 or SB	15 - 600	13.0 B	24.7	23.3	11.8 B	7.0	13.5 RB	5.9 RB	2.6 B	3.3 B
Beryllium	0.16 or SB	0 - 1.75			1.8 JU						
Calcium	SB	130 – 35,000			9410						
Cadmium	10	0.1 - 1	0.97	0.30 B	0.17 B	0.098 B	0.038	15.4 R	29.9 R	0.038 U	0.044 U
Chromium	50	1.5 - 40	25.5	16.5	15.9	13.6	6.5	**114** R	**282** R	6.2	1.5
Cobalt	30 or SB	2.5 - 60			2.5 B						
Copper	25 or SB	1 - 50			8.5						
Iron	2,000 or SB	2,000 – 550,000			**7510**						
Lead	400	200 - 500	10.7	5.6	4.1	2.8	1.1	17.5 R	29.9 R	0.75	2.0
Magnesium	SB	100 – 5,000			1150						
Manganese	SB	50 – 5,000			92.3 JN						
Nickel	13 or SB	0.5 - 25			3.8 B						
Potassium	SB	8,500 – 43,000			348 JBE						
Selenium	2 or SB	0.1 - 3.9	0.56 U	0.55 U	0.58 U	0.55 U	0.56	0.56 RU	0.58 RU	0.56 U	0.64 U
Silver	SB	N/A	2.8	0.94 B	0.53 B	0.40 B	0.37	0.37 RU	0.55 RB	0.38 U	0.43 U
Sodium	SB	6,000 - 8,000			39.3 B						
Thallium	SB	N/A			0.54 U						
Vanadium	150 or SB	1 - 300			9.7						
Zinc	20 or SB	9 - 50			19.7 JE						
Chromium (VI)	50	1.5 - 40			1.6						
Cyanide	**	--			0.54 UJ						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring B-11													
			0-2		2-4		8-10		20-23		28-30		38-40		48-50		58-60	
			TOB026		TOB026		TOB026		TOB026		TOB026		TOB026		TOB026		TOB026	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.053	U	0.052	U	0.051	U	0.052	U	0.053	U	0.053	U	0.051	U	0.052	U
Aluminum	SB	33,000	4580															
Antimony	SB	N/A	0.35	U														
Arsenic	7.5 or SB	3 - 12	2.0		0.71	B	6.3		2.0		9.5		**70.1**	B	0.58	U	1.7	
Barium	300 or SB	15 - 600	17.0	B	4.1	B	8.6	B	6.6	B	5.1	B	7.0	U	0.84	B	3.3	B
Beryllium	0.16 or SB	0 - 1.75	1.8	JU														
Calcium	SB	130 – 35,000	4520															
Cadmium	10	0.1 - 1	0.28	B	0.056	B	0.042	B	0.054	B	0.060	B	0.77	U	0.038	U	0.038	U
Chromium	50	1.5 - 40	12.0		3.5		6.9		32.2		33.5		**141**	B	0.085	U	2.9	
Cobalt	30 or SB	2.5 - 60	2.3	B														
Copper	25 or SB	1 - 50	6.2															
Iron	2,000 or SB	2,000 – 550,000	**6440**															
Lead	400	200 - 500	6.3	RN	2.3	RN	0.65	RN	0.37	RN	0.82	RN	2.4	URN	0.53	RN	0.53	RN
Magnesium	SB	100 – 5,000	769															
Manganese	SB	50 – 5,000	77.0															
Nickel	13 or SB	0.5 - 25	3.2	B														
Potassium	SB	8,500 – 43,000	283	JBE														
Selenium	2 or SB	0.1 - 3.9	0.57	U	0.55	U	0.55	U	0.55	U	0.57	U	11.3	U	0.55	U	0.56	U
Silver	SB	N/A	0.48	B	0.37	U	0.37	U	0.37	U	0.38	U	7.5	U	0.37	U	0.37	U
Sodium	SB	6,000 - 8,000	155	B														
Thallium	SB	N/A	0.53	U														
Vanadium	150 or SB	1 - 300	8.8															
Zinc	20 or SB	9 - 50	17.0															
Chromium (VI)	50	1.5 - 40	2.4															
Cyanide	**	–	0.53	U														

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring B-2				Boring B-4			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB043	TOB043	TOB043	TOB043	TOB012	TOB012	TOB012	TOB012
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.051 U	0.051 U	0.051 U	**0.29**	0.051 U	0.059 U	0.051 U
Aluminum	SB	33,000		1690				7250 J*		
Antimony	SB	N/A		0.34 U				0.34 U		
Arsenic	7.5 or SB	3 - 12	1.1	1.1	1.2	0.83 B	13.1 J*	3.2 J*	3.1 J*	0.58 JU*
Barium	300 or SB	15 - 600	8.6 B	6.7 B	7.0 B	6.3 B	26.5	13.3 B	30.5	3.5 B
Beryllium	0.16 or SB	0 - 1.75		1.8 JU				1.7 JU		
Calcium	SB	130 – 35,000		294 B				116 JB*		
Cadmium	10	0.1 - 1	0.12 B	0.059 B	0.063 B	0.054 B	0.52 B	0.17 B	0.21 B	0.038 U
Chromium	50	1.5 - 40	10.1 J*E	12.1 J*E	11.2 J*E	7.7 J*E	13.9 J*	9.0 J*	14.0 J*	2.1 J*
Cobalt	30 or SB	2.5 - 60		5.1 B				4.6 B		
Copper	25 or SB	1 - 50		2.3 B				6.0 J*		
Iron	2,000 or SB	2,000 – 550,000		**4240**				**10500**		
Lead	400	200 - 500	1.9 JN*	1.3 JN*	0.96 JN*	1.0 JN*	24.4 J*	3.3 J*	6.1 J*	0.65 J*
Magnesium	SB	100 – 5,000		279 JBE				1080		
Manganese	SB	50 – 5,000		56.5				93.6		
Nickel	13 or SB	0.5 - 25		1.9 B				5.7		
Potassium	SB	8,500 – 43,000		203 JBE				300 JBE		
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.55 U	0.55 U	0.55 U	0.59 U	0.55 U	0.63 U	0.55 U
Silver	SB	N/A	0.37 U	0.37 U	0.37 U	0.37 U	0.75 B	0.37 U	0.42 U	0.37 U
Sodium	SB	6,000 - 8,000		25.8 B				19.9 B		
Thallium	SB	N/A		0.51 U				0.74 B		
Vanadium	150 or SB	1 - 300		3.8 B				11.6		
Zinc	20 or SB	9 - 50		6.3 JE				13.5 J*		
Chromium (VI)	50	1.5 - 40		1 U				1 U		
Cyanide	**	--		0.51 U				0.51 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring B-6				Boring B-8			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB013	TOB013	TOB013	TOB013	TOB027	TOB027	TOB027	TOB027
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.16**	0.056 U	0.053 U	**0.12**	0.063 JB	0.096 B	0.079 B	0.068 B
Aluminum	SB	33,000		11000 J*			2650			
Antimony	SB	N/A		0.37 U			0.34 U			
Arsenic	7.5 or SB	3 - 12	**8.8** J*	4.2 J*	2.1 J*	4.4 J*	2.4	1.5	2.4	1.5
Barium	300 or SB	15 - 600	24.7	32.0	19.0 B	23.4	13.9 B	11.2 B	16.1 B	10.5 B
Beryllium	0.16 or SB	0 - 1.75		1.9 JU			1.8 JU			
Calcium	SB	130 – 35,000		447 JBE			5830 J*			
Cadmium	10	0.1 - 1	0.44 B	0.041 U	0.11 B	0.23 B	0.46 B	0.18 B	0.46 B	0.25 B
Chromium	50	1.5 - 40	18.2 J*	13.7 J*	7.7 J*	20.3 J*	16.9	7.5	18.5	15.2
Cobalt	30 or SB	2.5 - 60		8.0			1.7 B			
Copper	25 or SB	1 - 50		7.1 J*			11.9 J*			
Iron	2,000 or SB	2,000 – 550,000		**24400** J*			**5030**			
Lead	400	200 - 500	25.0 J*	4.6 J*	5.1 J*	13.9 J*	7.5	3.4	7.1	4.4
Magnesium	SB	100 – 5,000		1570			1100			
Manganese	SB	50 – 5,000		185 J*			84.9 JN			
Nickel	13 or SB	0.5 - 25		6.1			2.9 B			
Potassium	SB	8,500 – 43,000		387 JBE			235 JBE			
Selenium	2 or SB	0.1 - 3.9	0.58 UN	0.60 UN	0.56 UN	0.56 UN	0.56 U	0.58 U	0.57 U	0.56 U
Silver	SB	N/A	2.5	0.40 U	0.63 B	1.1	2.5	0.51 B	1.7	0.99 B
Sodium	SB	6,000 - 8,000		32.4 B			22.8 B			
Thallium	SB	N/A		1.4			0.52 U			
Vanadium	150 or SB	1 - 300		21.0 J*			5.9			
Zinc	20 or SB	9 - 50		**28.4** JN* E			18.5			
Chromium (VI)	50	1.5 - 40		1.6			2.6			
Cyanide	**	–		0.56 U			0.52 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring B-10							
			0-2		2-4		4-6		8-10	
			TOB034		TOB034		TOB034		TOB034	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.12**		0.055	U	0.074	B	0.062	B
Aluminum	SB	33,000	5110							
Antimony	SB	N/A	0.34	U						
Arsenic	7.5 or SB	3 - 12	5.7		2.8		2.8		2.6	
Barium	300 or SB	15 - 600	22.1		30.4		20.4	B	18.1	B
Beryllium	0.16 or SB	0 - 1.75	1.8	U						
Calcium	SB	130 – 35,000	1130							
Cadmium	10	0.1 - 1	0.51	B	0.040	U	0.16	B	0.15	B
Chromium	50	1.5 - 40	25.0	J*	10.8	J*	15.1	J*	24.4	J*
Cobalt	30 or SB	2.5 - 60	2.0	B						
Copper	25 or SB	1 - 50	14.0							
Iron	2,000 or SB	2,000 – 550,000	**6490**							
Lead	400	200 - 500	30.4		8.1		13.4		8.4	
Magnesium	SB	100 – 5,000	765							
Manganese	SB	50 – 5,000	99.0							
Nickel	13 or SB	0.5 - 25	8.2							
Potassium	SB	8,500 – 43,000	242	B						
Selenium	2 or SB	0.1 - 3.9	0.55	UN	0.59	UN	0.58	UN	0.57	UN
Silver	SB	N/A	1.8		0.39	U	1.2		1.3	
Sodium	SB	6,000 - 8,000	30.4	B						
Thallium	SB	N/A	0.51	U						
Vanadium	150 or SB	1 - 300	10.9							
Zinc	20 or SB	9 - 50	**35.3**							
Chromium (VI)	50	1.5 - 40	1	U						
Cyanide	**	--	0.51	U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring C-1								Boring C-2							
			0-2		2-4		4-6		8-10		0-2		2-4		4-6		8-10	
			TOB038		TOB038		TOB038		TOB038		TOB018		TOB018		TOB018		TOB018	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.069	B	0.053	U	0.053	U	0.055	U	**0.10**	RB N	0.056	RB N	0.055	RU N	0.053	RU N
Aluminum	SB	33,000	4060	J*E									9140	J*				
Antimony	SB	N/A	0.59	U									0.64	U				
Arsenic	7.5 or SB	3 - 12	3.6		2.5		4.5		2.7		4.0	JN	2.8	JN	3.0	JN	2.8	JN
Barium	300 or SB	15 - 600	17.4	JBE	16.1	JBE	20.2	JBE	15.2	JBE	29.0		39.2		29.0		28.8	
Beryllium	0.16 or SB	0 - 1.75	0.21	B									0.23	B				
Calcium	SB	130 – 35,000	743								1.3		302	B	1.1		0.53	
Cadmium	10	0.1 - 1	0.79		0.19	B	0.46	B	0.36	B	**27.6**		0.37	B	**26.2**		**19.4**	
Chromium	50	1.5 - 40	17.7	JN*	12.4	JN*	40.6	JN*	18.3	JN*			14.7					
Cobalt	30 or SB	2.5 - 60	2.2	B									6.9					
Copper	25 or SB	1 - 50	12.8										7.6					
Iron	2,000 or SB	2,000 – 550,000	**6300**	JE									**11000**	*				
Lead	400	200 - 500	13.7	JN*	4.3	JN*	10.9	JN*	15.9	JN*	12.8	RN*	6.1	RN*	11.2	RN*	6.3	RN*
Magnesium	SB	100 – 5,000	635	JE									1480	J*				
Manganese	SB	50 – 5,000	90.8	JNE									268	J*				
Nickel	13 or SB	0.5 - 25	4.2										7.2					
Potassium	SB	8,500 – 43,000	195	JBE									397	B				
Selenium	2 or SB	0.1 - 3.9	0.67	JN	0.50	JUN	0.60	JN	0.57	JN	0.52	U	0.52	U	0.52	U	0.50	U
Silver	SB	N/A	2.1		0.14	U	0.75	B	0.86	B	3.8		0.15	U	2.1		0.56	B
Sodium	SB	6,000 - 8,000	22.0	B									30.1	B				
Thallium	SB	N/A	0.79	B									0.45	U				
Vanadium	150 or SB	1 - 300	9.9	JE									17.1	J*				
Zinc	20 or SB	9 - 50	**32.2**	J*									18.4	J*				
Chromium (VI)	50	1.5 - 40	2.5										1.1	U				
Cyanide	**	--	0.52	U									0.56	U				

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring C-3				Boring C-4			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB016	TOB016	TOB016	TOB016	TOB009	TOB009	TOB009	TOB009
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.14**	0.054 U	0.054 U	0.051 U	**0.14**	**0.12**	0.062 B	0.054 U
Aluminum	SB	33,000		6250				6480		
Antimony	SB	N/A		0.35 U				0.63 UJN		
Arsenic	7.5 or SB	3 - 12	7.0	1.9	2.4	0.58 U	**7.7**	9.8	5.3	1.7
Barium	300 or SB	15 - 600	21.8	19.8 B	22.2	5.0 B	20.7 B	21.8	21.2 B	10.5 B
Beryllium	0.16 or SB	0 - 1.75		1.8 JU				0.21 B		
Calcium	SB	130 – 35,000		279 JBE				465 BEJ		
Cadmium	10	0.1 - 1	2.0 JN*	2.3 JN*	0.86 JN*	0.075 JBN*	2.7	5.3	3.1	0.24 B
Chromium	50	1.5 - 40	**55.6**	15.6	44.0	1.2	33.1	12.8	36.7	13.8
Cobalt	30 or SB	2.5 - 60		3.1 B				2.5 B		
Copper	25 or SB	1 - 50		8.9 JN*				25.9		
Iron	2,000 or SB	2,000 – 550,000		**7800**				**9350**		
Lead	400	200 - 500	29.9	5.4	10.4	0.46	27.6	17.6	17.8	4.2
Magnesium	SB	100 – 5,000		953				843		
Manganese	SB	50 – 5,000		89.4				116 JN		
Nickel	13 or SB	0.5 - 25		4.6				5.6		
Potassium	SB	8,500 – 43,000		289 B				227 B		
Selenium	2 or SB	0.1 - 3.9	0.58 U	0.58 U	0.57 U	0.55 U	1.1 JN	0.73 JN	0.64 JN	0.55 JN
Silver	SB	N/A	13.6	0.38 U	0.51 B	0.37 U	7.0	0.90 B	2.7	0.93 B
Sodium	SB	6,000 - 8,000		25.2 B				23.6 B		
Thallium	SB	N/A		0.54 U				1.2		
Vanadium	150 or SB	1 - 300		11.0				13.8		
Zinc	20 or SB	9 - 50		**24.0** JN*				**23.8**		
Chromium (VI)	50	1.5 - 40		1.1 U				1.1 U		
Cyanide	**	--		0.54 U				0.55 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring C-5								Boring C-6							
			0-2		2-4		4-6		8-10		0-2		2-4		4-6		8-10	
			TOB016		TOB016		TOB016		TOB016		TOB013		TOB013		TOB013		TOB013	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.21**		0.054	U	**0.11**		0.080	B	0.096	B	**0.18**		0.056	U	0.079	B
Aluminum	SB	33,000			7200								6060	J*				
Antimony	SB	N/A			0.35	U							0.37	U				
Arsenic	7.5 or SB	3 - 12	**9.1**		2.6		3.5		2.3		5.7	J*	3.1	J*	5.0	J*	3.6	J*
Barium	300 or SB	15 - 600	28.3		25.8		19.1	B	19.0	B	32.5		23.2		28.0		23.6	
Beryllium	0.16 or SB	0 - 1.75			1.8	J							1.9	JU				
Calcium	SB	130 – 35,000			471	JE							530	JBE				
Cadmium	10	0.1 - 1	0.83	JN*	6.4	J*	1.9	JN*	0.45	JBN*	0.99		2.5		0.75		0.27	B
Chromium	50	1.5 - 40	22.9		31.8		22.8		18.6		28.0	J*	20.0	J*	21.8	J*	13.7	J*
Cobalt	30 or SB	2.5 - 60			3.3	B							19.5					
Copper	25 or SB	1 - 50			**31.8**	J*							17.1	J*				
Iron	2,000 or SB	2,000 – 550,000			**8740**								**9980**	J*				
Lead	400	200 - 500	27.2		12.8		13.0		6.8		24.7	J*	13.6	J*	19.5	J*	10.4	J*
Magnesium	SB	100 – 5,000			990								732					
Manganese	SB	50 – 5,000			116								199	J*				
Nickel	13 or SB	0.5 - 25			5.2								5.1					
Potassium	SB	8,500 – 43,000			376	B							240	JBE				
Selenium	2 or SB	0.1 - 3.9	0.61	U	0.57	U	0.58	U	0.58	U	0.58	UN	0.60	UN	0.60	UN	0.60	UN
Silver	SB	N/A	3.6		1.7		2.7		0.52	B	3.1		1.7		2.9		0.99	B
Sodium	SB	6,000 - 8,000			24.0	B							19.8	B				
Thallium	SB	N/A			0.54	U							0.69	B				
Vanadium	150 or SB	1 - 300			12.4								12.5	J*				
Zinc	20 or SB	9 - 50			**47.4**	JN*							**34.9**	JN*E				
Chromium (VI)	50	1.5 - 40			1.1	U							1.1	U				
Cyanide	**	–			0.54	U							0.56	U				

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring C-7				Boring C-8			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB015	TOB015	TOB015	TOB015	TOB027	TOB027	TOB027	TOB027
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.083 B	**0.21**	0.12	**0.12**	**0.49** J	**0.19**	**0.22**	0.054 U
Aluminum	SB	33,000	3030 J*				6190			
Antimony	SB	N/A	0.34 U				0.36 U			
Arsenic	7.5 or SB	3 - 12	2.9	8.7	4.1	5.2	**9.0**	**9.3**	3.0	1.9
Barium	300 or SB	15 - 600	14.7 JB	29.4	25.4	25.9	25.3	23.2	15.2 B	18.0 B
Beryllium	0.16 or SB	0 - 1.75	1.8 U				1.9 JU			
Calcium	SB	130 – 35,000	308 BEJ				1640 J*			
Cadmium	10	0.1 - 1	1.4	1.5	0.88	1.3	0.86	0.78	0.044 B	0.11 B
Chromium	50	1.5 - 40	32.6 NR	22.7 NR	26.1 NR	38.0 NR	30.5	28.8	10.1	13.5
Cobalt	30 or SB	2.5 - 60	1.8 B				2.2 B			
Copper	25 or SB	1 - 50	**27.2**				24.7 JJ*			
Iron	2,000 or SB	2,000 – 550,000	**5250**				**9010**			
Lead	400	200 - 500	13.9 J*	30.9 J*	17.0 J*	22.1 J*	31.3	25.7	4.2	3.5
Magnesium	SB	100 – 5,000	392 B				754			
Manganese	SB	50 – 5,000	98.2 JN				177 JN			
Nickel	13 or SB	0.5 - 25	3.7 B				4.6			
Potassium	SB	8,500 – 43,000	160 BEJ				185 JBE			
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.60 U	0.59 U	0.57 U	0.59 U	0.55 U	0.61 U	0.58 U
Silver	SB	N/A	10.7	3.1	5.3	7.3	5.9	6.0	0.41 U	0.38 U
Sodium	SB	6,000 - 8,000	24.5 B				34.7 B			
Thallium	SB	N/A	0.51 U				0.55 U			
Vanadium	150 or SB	1 - 300	6.6				13.6			
Zinc	20 or SB	9 - 50	**37.5** *EJ				**48.5**			
Chromium (VI)	50	1.5 - 40	1.2				1.1 U			
Cyanide	**	–	0.9 E				0.55 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring C-9				Boring C-10			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB027	TOB027	TOB027	TOB027	TOB027	TOB027	TOB027	TOB027
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.054 JB	0.053 U	0.051 U	0.052 U	0.053 U	0.054 U	0.054 U	0.053 U
Aluminum	SB	33,000	3940				3750			
Antimony	SB	N/A	0.34 U				0.35 U			
Arsenic	7.5 or SB	3 - 12	2.0	1.5	0.58 U	0.85 B	1.8	2.2	1.5	1.3
Barium	300 or SB	15 - 600	18.4 B	8.9 B	3.9 B	5.3 B	16.5 B	14.9 B	12.7 B	13.6 B
Beryllium	0.16 or SB	0 - 1.75	1.8 JU				1.8 JU			
Calcium	SB	130 – 35,000	1040 J*				7780 J*			
Cadmium	10	0.1 - 1	0.32 B	0.13 B	0.038 U	0.062 B	0.19 B	0.039 U	0.079 B	0.066 B
Chromium	50	1.5 - 40	14.4	5.6	1.3	10.9	8.4	9.9	12.9	9.1
Cobalt	30 or SB	2.5 - 60	2.4 B				3.6 B			
Copper	25 or SB	1 - 50	7.2 J*				9.6 J*			
Iron	2,000 or SB	2,000 – 550,000	**6280**				**6600**			
Lead	400	200 - 500	5.5	2.6	0.60	1.3	3.7	3.9	3.2	2.3
Magnesium	SB	100 – 5,000	644				1120			
Manganese	SB	50 – 5,000	69.5 JN				90.3 JN			
Nickel	13 or SB	0.5 - 25	3.3 B				3.9 B			
Potassium	SB	8,500 – 43,000	290 JBE				252 JBE			
Selenium	2 or SB	0.1 - 3.9	0.56 U	0.57 U	0.55 U	0.55 U	0.57 U	0.58 U	0.58 U	0.57 U
Silver	SB	N/A	1.2	0.38 U	0.37 U	0.37 U	0.38 U	0.39 U	0.38 U	0.38 U
Sodium	SB	6,000 - 8,000	85.5 B				94.8 B			
Thallium	SB	N/A	0.52 U				0.53 U			
Vanadium	150 or SB	1 - 300	7.5				8.9			
Zinc	20 or SB	9 - 50	18.6				21.4			
Chromium (VI)	50	1.5 - 40	2.0				1.9			
Cyanide	**	–	0.52 U				0.53 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring C-11				Boring C-12			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB022	TOB022	TOB022	TOB022	TOB022	TOB022	TOB022	TOB022
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.053 U	0.054 U	0.054 U	0.051 U	0.081 B	0.051 U	0.052 U	0.051 U
Aluminum	SB	33,000	4430				3620			
Antimony	SB	N/A	0.35 U				0.34 U			
Arsenic	7.5 or SB	3 - 12	2.8	2.4	2.3	0.84 B	4.4	1.7	0.93 B	1.5
Barium	300 or SB	15 - 600	21.4	19.7 B	19.9 B	2.7 B	18.8 B	8.3 B	7.2 B	7.6 B
Beryllium	0.16 or SB	0 - 1.75	1.8 UJ				1.8 UJ			
Calcium	SB	130 – 35,000	9360				3820			
Cadmium	10	0.1 - 1	0.067 B	0.040 U	0.040 U	0.038 U	0.39 B	0.29 B	0.13 B	0.044 B
Chromium	50	1.5 - 40	13.2	10.3	14.2	3.5	17.0	15.9	8.8	4.0
Cobalt	30 or SB	2.5 - 60	4.6 B				1.9 B			
Copper	25 or SB	1 - 50	6.6				9.3			
Iron	2,000 or SB	2,000 – 550,000	**7410**				**6660**			
Lead	400	200 - 500	3.9	3.8	3.7	1.3	43.8	8.1	4.5	6.2
Magnesium	SB	100 – 5,000	1820				1030			
Manganese	SB	50 – 5,000	68.5 JN				113 JN			
Nickel	13 or SB	0.5 - 25	9.8				3.9 B			
Potassium	SB	8,500 – 43,000	312 JBE				242 JBE			
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.58 U	0.58 U	0.55 U	0.56 U	0.55 U	0.56 U	0.55 U
Silver	SB	N/A	0.38 U	0.39 U	0.39 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Sodium	SB	6,000 - 8,000	136 B				47.2 B			
Thallium	SB	N/A	0.53 U				0.52 U			
Vanadium	150 or SB	1 - 300	10.3				9.3			
Zinc	20 or SB	9 - 50	14.8 JE				**53.6** JE			
Chromium (VI)	50	1.5 - 40	1.2				1 U			
Cyanide	**	--	0.53 UJ				0.52 UJ			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring D-1								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB031	TOB031	TOB031	TOB031	TOB031	TOB031	TOB031	TOB031	TOB031
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.059 B	0.056 B	0.052 U	0.051 U	0.061 B	0.052 U	0.051 U	0.056 U	0.058 U
Aluminum	SB	33,000			1380						
Antimony	SB	N/A			0.34 U						
Arsenic	7.5 or SB	3 - 12	4.5	1.1	1.4	0.88 B	0.58 U	0.68 B	3.9	5.0	1.8
Barium	300 or SB	15 - 600	36.0	8.4 B	5.5 B	9.1 B	16.3 B	5.6 B	6.7 B	9.0 B	3.1 B
Beryllium	0.16 or SB	0 - 1.75			1.8 JU						
Calcium	SB	130 – 35,000			535						
Cadmium	10	0.1 - 1	0.50 B	0.26 B	0.14 B	0.11 B	0.038 U	0.054 B	0.038 U	0.041 U	0.043 U
Chromium	50	1.5 - 40	14.1	10	5.7	5.2	4.9	5.8	33.4	7.2	2.4
Cobalt	30 or SB	2.5 - 60			1.6 B						
Copper	25 or SB	1 - 50			3.1						
Iron	2,000 or SB	2,000 – 550,000			**5440** J*						
Lead	400	200 - 500	14.2	3.8	0.99	3.1	0.68	0.53	0.12 U	2.1	2.3
Magnesium	SB	100 – 5,000			301 B						
Manganese	SB	50 – 5,000			75.7 J*						
Nickel	13 or SB	0.5 - 25			1.7 B						
Potassium	SB	8,500 – 43,000			146 JBE						
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.57 U	0.55 U	0.55 U	0.55 U	0.56 U	0.55 U	0.60 U	0.63 U
Silver	SB	N/A	2.6	1.0 B	0.37 U	0.44 B	0.37 U	0.37 U	0.37 U	0.40 U	0.42 U
Sodium	SB	6,000 - 8,000			14.8 B						
Thallium	SB	N/A			0.51 U						
Vanadium	150 or SB	1 - 300			3.9 B						
Zinc	20 or SB	9 - 50			6.3						
Chromium (VI)	50	1.5 - 40			1.5						
Cyanide	**	--			0.52 U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring D-3								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB019	TOB019	TOB019	TOB019	TOB019	TOB019	TOB019	TOB019	TOB019
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.098 B	**0.14**	**0.15**	0.054 U	0.052 U	0.052 U	0.055 U	0.052 U	0.059 U
Aluminum	SB	33,000						818 J*			
Antimony	SB	N/A						0.34 U			
Arsenic	7.5 or SB	3 - 12	4.7	2.6	4.3	2.3	3.1	1.1	1.5	0.59 U	0.71 B
Barium	300 or SB	15 - 600	29.4	34.3	26.7	14.0 B	16.9 B	4.6 B	11.4 B	1.3 B	2.1 B
Beryllium	0.16 or SB	0 - 1.75						1.8 JU			
Calcium	SB	130 – 35,000						28.0 B			
Cadmium	10	0.1 - 1	1.4	2.4	1.3	0.21 B	0.040 B	0.061 B	0.41 B	0.038 U	0.043 U
Chromium	50	1.5 - 40	**60.9** J*	19.8 J*	32.4 J*	20.6 J*	3.1 J*	3.1 J*	13.4 *	0.56 B*	1.2 J*
Cobalt	30 or SB	2.5 - 60						0.36 B			
Copper	25 or SB	1 - 50						0.89 B			
Iron	2,000 or SB	2,000 – 550,000						**2900** J*			
Lead	400	200 - 500	19.3	11.4	13.4	5.1	0.87	0.53	5.3	0.71	1.4
Magnesium	SB	100 – 5,000						90.6 B			
Manganese	SB	50 – 5,000						38.7 J*			
Nickel	13 or SB	0.5 - 25						0.65 B			
Potassium	SB	8,500 – 43,000						59.4 B			
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.56 U	0.59 U	0.58 U	0.56 U	0.56 U	0.58 U	0.56 U	0.63 U
Silver	SB	N/A	5.7	3.0	1.5	0.52 B	0.37 U	0.37 U	0.66 B	0.37 U	0.42 U
Sodium	SB	6,000 - 8,000						9.1 B			
Thallium	SB	N/A						0.52 U			
Vanadium	150 or SB	1 - 300						2.5 B			
Zinc	20 or SB	9 - 50						4.5			
Chromium (VI)	50	1.5 - 40						1.0 J			
Cyanide	**	–						0.52 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring D-5								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB017	TOB017	TOB017	TOB017	TOB017	TOB017	TOB017	TOB017	TOB017
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.11** B	**0.13**	0.055 U	0.056 B	0.052 U	0.051 U	0.057 U	0.053 U	0.060 U
Aluminum	SB	33,000		7310 JE							
Antimony	SB	N/A		0.36 U							
Arsenic	7.5 or SB	3 - 12	4.0	6.6	2.2	2.5	1.3	2.1	7.1	0.60 U	0.67 U
Barium	300 or SB	15 - 600	24.3	23.5	18.4	17.3	9.8	5.3	3.8	1.8	3.2
Beryllium	0.16 or SB	0 - 1.75		1.9 JU							
Calcium	SB	130 – 35,000		699							
Cadmium	10	0.1 - 1	0.67	0.65	0.13 B	1.1	0.10 B	0.037 U	0.042 U	0.039 U	0.044 U
Chromium	50	1.5 - 40	29.6	23.8	18.3	**62.7**	7.0	7.7	2.7	1.5	1.4
Cobalt	30 or SB	2.5 - 60		2.3 B							
Copper	25 or SB	1 - 50		21.0							
Iron	2,000 or SB	2,000 – 550,000		**9320** J*							
Lead	400	200 - 500	16.4	22.9	4.5	12.3	1.3	0.12 U	1.9	1.1	1.9
Magnesium	SB	100 – 5,000		838							
Manganese	SB	50 – 5,000		122 J*							
Nickel	13 or SB	0.5 - 25		4.8							
Potassium	SB	8,500 – 43,000		305 JBE							
Selenium	2 or SB	0.1 - 3.9	0.59 U	0.59 U	0.59 U	0.59 U	0.56 U	0.55 U	0.61 U	0.57 U	0.64 U
Silver	SB	N/A	1.7	2.8	0.39 U	4.1	0.37 U	0.37 U	0.41 U	0.38 U	0.43 U
Sodium	SB	6,000 - 8,000		22.0 B							
Thallium	SB	N/A		0.55 U							
Vanadium	150 or SB	1 - 300		13.8							
Zinc	20 or SB	9 - 50		**38.2** J*E							
Chromium (VI)	50	1.5 - 40		6.4							
Cyanide	**	--		0.55 U							

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring D-7													
			0-2		2-4		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB021		TOB021		TOB021		TOB021		TOB021		TOB021		TOB021		TOB021	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.052	U	0.054	U	0.054	U	0.052	U	0.055	U	0.053	U	0.061	U	0.058	U
Aluminum	SB	33,000									4640	J*						
Antimony	SB	N/A									4.0	B						
Arsenic	7.5 or SB	3 - 12	2.5	J*E	3.0	J*E	3.7	J*E	1.4	J*E	**26.3**	J*E	**11.4**	J*E	2.4	J*E	1.2	J*E
Barium	300 or SB	15 - 600	13.4	B	17.3	B	31.1		8.8	B	8.9	B	11.6	B	3.8	B	1.9	B
Beryllium	0.16 or SB	0 - 1.75									1.0	J						
Calcium	SB	130 – 35,000									405	JBE						
Cadmium	10	0.1 - 1	0.50	JB*	0.57	*	0.45	JB*	0.18	JB*	1.3	J*	0.66	J*	0.080	JU*	0.076	JU*
Chromium	50	1.5 - 40	10.9	J*E	16.9	*E	25.5	J*E	13.8	J*E	**95.7**	J*E	47.5	J*E	2.5	J*E	1.3	J*E
Cobalt	30 or SB	2.5 - 60									1.6	B						
Copper	25 or SB	1 - 50									2.0	B						
Iron	2,000 or SB	2,000 – 550,000									**120000**	J*						
Lead	400	200 - 500	5.4	J*E	6.7	*E	5.7	J*E	2.0	J*E	17.4	J*E	6.8	J*E	2.5	J*E	1.8	J*E
Magnesium	SB	100 – 5,000									300	JBE						
Manganese	SB	50 – 5,000									127	RN*						
Nickel	13 or SB	0.5 - 25									5.9							
Potassium	SB	8,500 – 43,000									207	B						
Selenium	2 or SB	0.1 - 3.9	0.49	URN	0.50	UN	0.50	URN	0.49	URN	0.52	URN	0.50	URN	0.57	URN	0.54	URN
Silver	SB	N/A	1.4		0.77	B	0.39	B	0.17	B	0.53	B	0.14	U	0.16	U	0.16	U
Sodium	SB	6,000 - 8,000									13.3	B						
Thallium	SB	N/A									5.3	RN*						
Vanadium	150 or SB	1 - 300									114	*						
Zinc	20 or SB	9 - 50									**23.0**	JNE						
Chromium (VI)	50	1.5 - 40									1.6							
Cyanide	**	--									0.55	UJ						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring D-9															
			0-2		2-4		4-6		6-8		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB021		TOB021		TOB021		TOB021		TOB021		TOB021		TOB021		TOB021		TOB021		TOB021	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.052	U	0.053	U	0.051	U	0.051	U	0.051	U	0.051	U	0.052	U	0.052	U	0.052	U	0.057	U
Aluminum	SB	33,000																	505	J*		
Antimony	SB	N/A																	0.60	U		
Arsenic	7.5 or SB	3 - 12	2.3	J*E	2.8	J*E	0.57	JB*E	0.31	U*E	1.0	J*E	4.6	J*E	5.2	J*E	0.57	JB*E	6.3	J*E	2.4	J*E
Barium	300 or SB	15 - 600	14.1	B	18.7	B	3.8	B	4.2	JB	6.9	B	7.0	B	6.5	B	3.3	B	4.2	B	4.1	B
Beryllium	0.16 or SB	0 - 1.75																	0.11	B		
Calcium	SB	130 – 35,000																	84.0	JBE		
Cadmium	10	0.1 - 1	0.17	JB*	0.27	JB*	0.067	JU*	0.067	JU*	0.067	JU*	0.067	JU*	0.068	JU*	0.069	JU*	0.068	JU*	0.082	JB*
Chromium	50	1.5 - 40	10.2	J*E	25.8	J*E	3.1	J*E	4.2	J*E	7.7	J*E	8.9	J*E	26.0	J*E	4.1	J*E	8.0	J*E	3.5	J*E
Cobalt	30 or SB	2.5 - 60																	0.40	B		
Copper	25 or SB	1 - 50																	3.4			
Iron	2,000 or SB	2,000 – 550,000																	**6480**	*		
Lead	400	200 - 500	3.8	J*E	5.1	J*E	0.92	J*E	1.1	J*E	1.6	J*E	1.6	J*E	2.1	J*E	2.1	J*E	1.8	*E	1.4	J*E
Magnesium	SB	100 – 5,000																	28.0	JBE		
Manganese	SB	50 – 5,000																	17.0	RN*		
Nickel	13 or SB	0.5 - 25																	0.68	U		
Potassium	SB	8,500 – 43,000																	65.4	B		
Selenium	2 or SB	0.1 - 3.9	0.49	URN	0.50	URN	0.48	URN	0.48	URN	0.48	URN	0.48	URN	0.48	URN	0.49	URN	0.49	URN	0.53	URN
Silver	SB	N/A	0.18	B	0.27	B	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U
Sodium	SB	6,000 - 8,000																	22.1	B		
Thallium	SB	N/A																	0.42	RUN*		
Vanadium	150 or SB	1 - 300																	7.3	J*		
Zinc	20 or SB	9 - 50																	5.8	JNE		
Chromium (VI)	50	1.5 - 40																	1	U		
Cyanide	**	–																	0.52	UJ		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring D-11																	
			0-2		2-4		4-6		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB026		TOB026		TOB026		TOB026		TOB026		TOB026		TOB026		TOB026		TOB026	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.053	U	0.051	U	0.053	U	0.052	U	0.052	U	0.052	U	0.053	U	0.052	U	0.055	U
Aluminum	SB	33,000					3450													
Antimony	SB	N/A					0.35	U												
Arsenic	7.5 or SB	3 - 12	2.2		1.6		1.4		0.59	U	0.84	B	**21.5**		**50.7**	B	**21.3**		4.1	
Barium	300 or SB	15 - 600	19.0	B	12.9	B	9.0	B	2.8	B	8.4	B	3.8	B	7.3	B	2.8	B	2.7	B
Beryllium	0.16 or SB	0 - 1.75					1.8	JU												
Calcium	SB	130 – 35,000					218	B												
Cadmium	10	0.1 - 1	0.21	B	0.091	B	0.055	B	0.038	U	0.038	U	0.038	U	0.77	U	0.038	U	0.040	U
Chromium	50	1.5 - 40	7.2		10.1		9.1		4.2		3.6		**51.8**		**165**	B	35.9		9.9	
Cobalt	30 or SB	2.5 - 60					2.7	B												
Copper	25 or SB	1 - 50					4.1													
Iron	2,000 or SB	2,000 – 550,000					**5570**													
Lead	400	200 - 500	6.4	RN	10.0	RN	3.2	RN	0.77	RN	0.86	RN	0.12	URN	2.5	URN	0.12	URN	1.7	RN
Magnesium	SB	100 – 5,000					468	B												
Manganese	SB	50 – 5,000					136													
Nickel	13 or SB	0.5 - 25					2.9	B												
Potassium	SB	8,500 – 43,000					169	JBE												
Selenium	2 or SB	0.1 - 3.9	0.57	U	0.55	U	0.57	U	0.56	U	0.56	U	0.56	U	11.3	U	0.56	U	0.59	U
Silver	SB	N/A	0.38	U	0.37	U	0.38	U	0.37	U	0.37	U	0.37	U	7.6	U	0.37	U	0.40	U
Sodium	SB	6,000 - 8,000					19.7	B												
Thallium	SB	N/A					0.53	U												
Vanadium	150 or SB	1 - 300					5.9													
Zinc	20 or SB	9 - 50					13.5													
Chromium (VI)	50	1.5 - 40					1.1	U												
Cyanide	**	–					0.53	U												

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring D-2				Boring D-4			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB016	TOB016	TOB016	TOB016	TOB012	TOB012	TOB012	TOB012
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.061 B	0.070 B	0.053 U	0.060 B	**0.11**	0.054 U	0.056 U	0.054 JU*
Aluminum	SB	33,000		6740				2890 J*		
Antimony	SB	N/A		0.34 U				0.35 U		
Arsenic	7.5 or SB	3 - 12	4.1	**17.0**	5.5	5.1	6.2 J*	1.4 J*	2.3 J*	0.61 JU*
Barium	300 or SB	15 - 600	49.3	23.3	28.4	19.9 B	22.6	11.6 B	22.2 B	1.8 B
Beryllium	0.16 or SB	0 - 1.75		1.8 JU				1.8 JU		
Calcium	SB	130 – 35,000		421 JBE				198 JB*		
Cadmium	10	0.1 - 1	2.0 JN*	0.91 JN*	0.85 JN*	0.73 JN*	1.1	0.48 B	0.77	0.058 B
Chromium	50	1.5 - 40	40.2	35.4	34.8	28.7	46.3 J*	15.2 J*	28.8 J*	2.8 J*
Cobalt	30 or SB	2.5 - 60		3.3 B				1.8 B		
Copper	25 or SB	1 - 50		12.2 JN*				9.1 J*		
Iron	2,000 or SB	2,000 – 550,000		**8890**				**5420**		
Lead	400	200 - 500	18.0	10.5	12.2	11.3	26.3 J*	5.4 J*	7.0 J*	0.59 J*
Magnesium	SB	100 – 5,000		965				431 B		
Manganese	SB	50 – 5,000		128				81.8		
Nickel	13 or SB	0.5 - 25		4.9				2.6 B		
Potassium	SB	8,500 – 43,000		338 B				194 JBE		
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.56 U	0.56 U	0.57 U	0.58 U	0.57 U	0.60 U	0.58 U
Silver	SB	N/A	5.5	1.4	2.2	2.1	8.4	2.2	0.51 B	0.38 U
Sodium	SB	6,000 - 8,000		31.3 B				19.8 B		
Thallium	SB	N/A		0.52 U				0.53 U		
Vanadium	150 or SB	1 - 300		12.5				6.7		
Zinc	20 or SB	9 - 50		**46.6** JN*				**22.6** J*		
Chromium (VI)	50	1.5 - 40		1.6				2.5		
Cyanide	**	–		0.5 E				0.6 E		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring D-6				Boring D-8			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB013	TOB013	TOB013	TOB013	TOB028	TOB028	TOB028	TOB028
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.056 B	0.056 U	**0.17**	**0.12**	0.054 U	0.056 B	0.054 U	0.052 U
Aluminum	SB	33,000		6040 J*			4100 J*	5960 J*		
Antimony	SB	N/A		0.36 U			0.35 U	0.35 U		
Arsenic	7.5 or SB	3 - 12	2.9 J*	2.6 J*	5.2 J*	3.3 J*	2.7	2.0	3.0	0.58 U
Barium	300 or SB	15 - 600	27.7	21.1 B	35.0	28.8	14.3 B	17.6 B	20.7 B	6.3 B
Beryllium	0.16 or SB	0 - 1.75		1.9 JU			1.8 JU	1.8 JU		
Calcium	SB	130 – 35,000		430 JBE			1350 J*	313 JB*		
Cadmium	10	0.1 - 1	1.5	**14.4**	2.1	4.4	0.42 B	0.63	0.91	0.098 B
Chromium	50	1.5 - 40	26.7 J*	16.7 J*	46.1 J*	31.4 J*	15.2	26.8	40.3	10.5
Cobalt	30 or SB	2.5 - 60		2.7 B			2.1 B	2.8 B		
Copper	25 or SB	1 - 50		30.7 J*			7.2	20.8		
Iron	2,000 or SB	2,000 – 550,000		**8430** J*			**5790**	**8280**		
Lead	400	200 - 500	33.0 J*	16.6 J*	47.5 J*	20.5 J*	16.5 J*	9.1 J*	20.2 J*	1.8 J*
Magnesium	SB	100 – 5,000		776			702	804		
Manganese	SB	50 – 5,000		126 J*			73.9 J*	60.4 J*		
Nickel	13 or SB	0.5 - 25		4.8			3.9 B	4.2 B		
Potassium	SB	8,500 – 43,000		350 JBE			194 B	232 B		
Selenium	2 or SB	0.1 - 3.9	0.55 UN	0.60 UN	0.59 UN	0.56 UN	0.58 U	0.58 U	0.58 U	0.56 U
Silver	SB	N/A	3.2	2.0	11.4	3.9	0.62 B	3.8	2.5	0.37 U
Sodium	SB	6,000 - 8,000		22.4 B			49.4 B	79.0 B		
Thallium	SB	N/A		0.55 U			0.54 U	0.54 U		
Vanadium	150 or SB	1 - 300		12.2 J*			8.2	10.1		
Zinc	20 or SB	9 - 50		**34.6** JN*E			**30.2** J*E	**28.8** J*E		
Chromium (VI)	50	1.5 - 40		1.1 U			1.1 U			
Cyanide	**	–		8.0 E			0.54 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring D-10								Boring D-12							
			0-2		2-4		4-6		8-10		0-2		2-4		4-6		8-10	
			TOB034		TOB034		TOB034		TOB034		TOB035		TOB035		TOB035		TOB035	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.052	U	0.052	U	0.052	U	0.052	U	0.053	UN	0.051	UN	0.052	UN	0.052	UN
Aluminum	SB	33,000	2180										2430					
Antimony	SB	N/A	0.34	U									0.59	JUN				
Arsenic	7.5 or SB	3 - 12	3.0		2.0		3.6		1.4		1.7		1.6		0.74	B	1.1	
Barium	300 or SB	15 - 600	8.4	B	11.9	B	9.5	B	14.4	B	9.1	B	5.5	B	6.2	B	3.6	B
Beryllium	0.16 or SB	0 - 1.75	1.8	U									0.11	B				
Calcium	SB	130 – 35,000	447	B									222	B				
Cadmium	10	0.1 - 1	0.073	B	0.038	U	0.092	B	0.038	U	0.18	B	0.067	U	0.068	U	0.068	U
Chromium	50	1.5 - 40	7.7	J*	6.9	J*	12.3	J*	23.9	J*	11.1	JN	10.8	JN	12.6	JN	6.0	JN
Cobalt	30 or SB	2.5 - 60	1.1	B									2.3	B				
Copper	25 or SB	1 - 50	4.1										3.1	J*				
Iron	2,000 or SB	2,000 – 550,000	**5850**										**7770**					
Lead	400	200 - 500	8.5		2.3		5.9		1.7		6.9		2.9		2.2		1.5	
Magnesium	SB	100 – 5,000	357	B									365	B				
Manganese	SB	50 – 5,000	70.0										130	J*				
Nickel	13 or SB	0.5 - 25	2.5	B									3.1	B				
Potassium	SB	8,500 – 43,000	221	B									181	B				
Selenium	2 or SB	0.1 - 3.9	0.55	UN	0.56	UN	0.56	UN	0.56	UN	0.49	U	0.48	U	0.48	U	0.49	U
Silver	SB	N/A	0.37	U	0.37	U	0.37	U	0.37	U	0.35	B	0.14	U	0.14	U	0.14	U
Sodium	SB	6,000 - 8,000	15.6	B									24.0	B				
Thallium	SB	N/A	0.52	U									0.41	U				
Vanadium	150 or SB	1 - 300	8.3										7.5					
Zinc	20 or SB	9 - 50	15.5										8.1					
Chromium (VI)	50	1.5 - 40											1	U				
Cyanide	**	–											0.51	U				

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring E-1				Boring E-2			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB041	TOB041	TOB041	TOB041	TOB016	TOB016	TOB016	TOB016
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.10** B	0.051 U	0.051 U	0.052 U	0.072 B	**0.11** B	0.054 U	0.052 U
Aluminum	SB	33,000		1190				8670		
Antimony	SB	N/A		0.33 U				0.36 U		
Arsenic	7.5 or SB	3 - 12	3.8	1.4	1.2	0.58 U	**10.0**	4.8	1.6	0.85 B
Barium	300 or SB	15 - 600	22.0	3.9 B	8.3 B	7.6 B	27.2	26.0	15.1 B	9.3 B
Beryllium	0.16 or SB	0 - 1.75		1.7 JU				1.9 JU		
Calcium	SB	130 – 35,000		72.8 B				1080 JE		
Cadmium	10	0.1 - 1	1.2 N	0.037 UN	0.083 JBN	0.038 UN	0.68 N*	2.5 JN*	0.96 JN*	0.36 JBN*
Chromium	50	1.5 - 40	32.4	4.3	23.2	15.2	20.6	22.4	**56.7**	22.5
Cobalt	30 or SB	2.5 - 60		1.1 B				3.9 B		
Copper	25 or SB	1 - 50		3.2				19.6 JN*		
Iron	2,000 or SB	2,000 – 550,000		**3570**				**9620**		
Lead	400	200 - 500	44.8	0.91	2.1	0.66	23.4	13.5	5.8	2.3
Magnesium	SB	100 – 5,000		196 B				1340		
Manganese	SB	50 – 5,000		71.1				133		
Nickel	13 or SB	0.5 - 25		2.0 B				5.8		
Potassium	SB	8,500 – 43,000		132 JBE				372 B		
Selenium	2 or SB	0.1 - 3.9	0.55 JUN	0.54 JUN	0.54 JUN	0.55 JUN	0.62 U	0.59 U	0.58 U	0.56 U
Silver	SB	N/A	1.6	0.36 U	0.36 U	0.37 U	1.2	2.0	0.86 B	0.37 U
Sodium	SB	6,000 - 8,000		14.8 B				28.9 B		
Thallium	SB	N/A		0.51 U				0.55 U		
Vanadium	150 or SB	1 - 300		6.9				14.6		
Zinc	20 or SB	9 - 50		5.4 JN				**60.2** JN*		
Chromium (VI)	50	1.5 - 40		1 U				1.6		
Cyanide	**	–		0.51 U				0.55 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring E-3				Boring E-4			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB023	TOB023	TOB023	TOB023	TOB012	TOB012	TOB012	TOB012
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.054 U	**0.15**	0.084 B	0.054 U	**0.11**	0.079 B	0.056 U	0.055 B
Aluminum	SB	33,000			7370			6770 J*		
Antimony	SB	N/A			0.36 U			0.37 U		
Arsenic	7.5 or SB	3 - 12	3.4 JN*	7.7 JN*	6.2 JN*	3.5 JN*	4.2 J*	3.7 J*	4.1 J*	2.0 J*
Barium	300 or SB	15 - 600	14.7 B	29.8	26.9	21.9	17.1 B	21.1 B	23.6	15.9 B
Beryllium	0.16 or SB	0 - 1.75			1.9 JU			1.9 JU		
Calcium	SB	130 – 35,000			358 B			661 J*		
Cadmium	10	0.1 - 1	1.2	0.91	0.39 B	1.1	1.4	1.7	2.1	0.95
Chromium	50	1.5 - 40	42.1 J*E	16.0 J*E	17.2 J*E	**62.9** J*E	29.3 J*	18.3 *	27.8 J^	27.7 J*
Cobalt	30 or SB	2.5 - 60			2.4 B			2.7 B		
Copper	25 or SB	1 - 50			23.9			21.1 J*		
Iron	2,000 or SB	2,000 – 550,000			**9190** J*			**7850**		
Lead	400	200 - 500	17.2 J*	21.5 J*	20.0 J*	10.3 J*	21.8 J*	16.5 J*	17.6 J*	7.3 J*
Magnesium	SB	100 – 5,000			716			841		
Manganese	SB	50 – 5,000			160 J*			121		
Nickel	13 or SB	0.5 - 25			6.7			4.7		
Potassium	SB	8,500 – 43,000			222 B			360 JBE		
Selenium	2 or SB	0.1 - 3.9	0.58 U	0.66	0.59 U	0.58 U	0.58 U	0.60 U	0.60 U	0.59 U
Silver	SB	N/A	6.7	0.97 B	2.1	1.7	3.0	3.7	3.4	1.0 B
Sodium	SB	6,000 - 8,000			20.8 B			28.4 B		
Thallium	SB	N/A			0.62 B			0.56 U		
Vanadium	150 or SB	1 - 300			13.9			13.4		
Zinc	20 or SB	9 - 50			**32.0** J*			**33.7** J*		
Chromium (VI)	50	1.5 - 40			1.1 U			1.1 U		
Cyanide	**	–			0.8 J			0.56 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring E-5				Boring E-6			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB023	TOB023	TOB023	TOB023	TOB015	TOB015	TOB015	TOB015
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.11**	0.057 B	0.054 U	0.053 U	**0.20**	0.051 U	0.052 U	0.052 U
Aluminum	SB	33,000		5000				2880 J*		
Antimony	SB	N/A		0.35 U				0.34 U		
Arsenic	7.5 or SB	3 - 12	5.3 JN*	2.2 JN*	2.5 JN*	2.9 JN*	6.8	1.5	1.1	2.0
Barium	300 or SB	15 - 600	23.4	15.1 B	14.9 B	26.8	31.0	10.2 B	10.7 B	14.9 B
Beryllium	0.16 or SB	0 - 1.75		1.8 JU				1.8 JU		
Calcium	SB	130 – 35,000		313 B				197 BEJ		
Cadmium	10	0.1 - 1	1.3	0.44 B	0.26 B	0.59	0.85	0.25 B	0.14 B	0.17 B
Chromium	50	1.5 - 40	30.0 J*E	33.6 J*E	38.4 J*E	**55.5** J*E	21.4 NR	9.6 NR	11.5 NR	13.8 NR
Cobalt	30 or SB	2.5 - 60		2.3 B				1.7 B		
Copper	25 or SB	1 - 50		7.2				3.8		
Iron	2,000 or SB	2,000 – 550,000		**6430** J*				**4640**		
Lead	400	200 - 500	19.4 J*	5.7 J*	5.6 J*	7.4 J*	18.3 J*	2.7 J*	1.9 J*	6.0 J*
Magnesium	SB	100 – 5,000		652				495 B		
Manganese	SB	50 – 5,000		61.3 J*				61.5 JN		
Nickel	13 or SB	0.5 - 25		4.3				3.1 B		
Potassium	SB	8,500 – 43,000		199 B				178 BEJ		
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.57 U	0.58 U	0.57 U	0.62 J	0.55 U	0.55 U	0.56 U
Silver	SB	N/A	3.2	1.2	0.78 B	0.93 B	2.2	0.37 U	0.37 U	0.50 B
Sodium	SB	6,000 - 8,000		40.7 B				38.2 B		
Thallium	SB	N/A		0.53 U				0.51 U		
Vanadium	150 or SB	1 - 300		8.3				5.3		
Zinc	20 or SB	9 - 50		**28.7** *				18.9 *EJ		
Chromium (VI)	50	1.5 - 40		1.1 U				1 U		
Cyanide	**	–		0.53 UJ				0.51 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring E-7				Boring E-8				
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	6-8	8-10
			TOB023	TOB023	TOB023	TOB023	TOB028	TOB028	TOB028	TOB028	TOB028
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.051 U	0.052 U	0.051 U	0.052 U	0.052 U	0.051 U	0.051 U	0.051 U
Aluminum	SB	33,000	1440								921 J*
Antimony	SB	N/A	0.34 U								0.34 U
Arsenic	7.5 or SB	3 - 12	2.2 JN*	0.82 JBN*	1.6 JN*	0.85 JBN*	1.5	1.7	0.58 U	0.58 U	0.58 U
Barium	300 or SB	15 - 600	4.7 B	4.1 B	16.0 B	4.0 B	6.5 B	6.1 B	5.4 B	6.1 B	4.8 B
Beryllium	0.16 or SB	0 - 1.75	1.8 U								1.7 JU
Calcium	SB	130 – 35,000	973								99.2 JB*
Cadmium	10	0.1 - 1	0.038 U	0.037 U	0.054 B	0.037 U	0.038 U	0.038 U	0.038 U	0.038 U	0.037 U
Chromium	50	1.5 - 40	5.1 J*E	2.3 J*E	11.5 J*E	2.9 J*E	3.2	2.8	19.7	18.2	2.9
Cobalt	30 or SB	2.5 - 60	1.2 B								0.76 B
Copper	25 or SB	1 - 50	3.0								1.5 B
Iron	2,000 or SB	2,000 – 550,000	**5900** J*								**3160**
Lead	400	200 - 500	0.82 J*	0.68 J*	1.9 J*	0.36 J*	1.4 J*	1.7 J*	1.0 J*	0.64 J*	0.80 J*
Magnesium	SB	100 – 5,000	301 B								184 B
Manganese	SB	50 – 5,000	66.6 J *								44.1 J*
Nickel	13 or SB	0.5 - 25	3.0 B								1.4 B
Potassium	SB	8,500 – 43,000	146 B								122 B
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.55 U	0.56 U	0.55 U	0.56 U	0.55 U	0.55 U	0.55 U	0.55 U
Silver	SB	N/A	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Sodium	SB	6,000 - 8,000	55.5 B								19.8 B
Thallium	SB	N/A	0.52 U								0.51 U
Vanadium	150 or SB	1 - 300	4.5 B								2.4 B
Zinc	20 or SB	9 - 50	11.3 *								4.8 J*E
Chromium (VI)	50	1.5 - 40	1 U								1 U
Cyanide	**	–	0.52 UJ								0.51 U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring E-9					Boring E-10		
			0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6
			TOB030	TOB030	TOB030	TOB030	TOB030	TOB028	TOB028	TOB028
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.067 B	0.057 B	0.052 U	0.052 U	0.067 B	0.051 U	0.052 U	0.051 U
Aluminum	SB	33,000				1050 J*		2350 J*		
Antimony	SB	N/A				0.60 U		0.33 U		
Arsenic	7.5 or SB	3 - 12	3.5	0.83 B	0.82 B	0.49 B	3.2	2.1	1.4	2.9
Barium	300 or SB	15 - 600	18.5 B	5.1 B	12.9 B	3.4 B	20.5 B	17.6 B	14.0 B	49.8
Beryllium	0.16 or SB	0 - 1.75				0.12 B		1.7 JU		
Calcium	SB	130 – 35,000				61.5 B		4220 J*		
Cadmium	10	0.1 - 1	0.22 B	0.066 U	0.068 U	0.068 U	0.12 B	0.13 B	0.038 U	0.16 B
Chromium	50	1.5 - 40	10.1	2.9	4.8	2.4	16.9	7.6	8.5	12.4
Cobalt	30 or SB	2.5 - 60				0.98 B		1.5 B		
Copper	25 or SB	1 - 50				1.9 B		4.5		
Iron	2,000 or SB	2,000 – 550,000				**3130** J*		**4020**		
Lead	400	200 - 500	6.6	1.2	4.5	1.3	21.3	6.8 J*	3.0 J*	11.5 J*
Magnesium	SB	100 – 5,000				230 B		505 B		
Manganese	SB	50 – 5,000				44.8		56.7 J*		
Nickel	13 or SB	0.5 - 25				2.1 B		1.9 B		
Potassium	SB	8,500 – 43,000				134 B		191 B		
Selenium	2 or SB	0.1 - 3.9	0.49 UN	0.47 UN	0.49 UN	0.49 UN	0.49 UN	0.54 U	0.56 U	0.55 U
Silver	SB	N/A	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.36 U	0.37 U	0.37 U
Sodium	SB	6,000 - 8,000				17.5 B		16.8 B		
Thallium	SB	N/A				0.42 U		0.51 U		
Vanadium	150 or SB	1 - 300				2.9 B		5.4		
Zinc	20 or SB	9 - 50				4.0		**39.2** J*E		
Chromium (VI)	50	1.5 - 40				1 U		1 U		
Cyanide	**	–				0.52 U		0.51 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring E-11				Boring E-13			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB044	TOB044	TOB044	TOB044	TOB025	TOB025	TOB025	TOB025
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.054 UJN	0.052 UJN	0.051 UJN	0.051 UJN	0.053 URN	0.051 URN	0.051 URN	0.051 URN
Aluminum	SB	33,000		4080				1470		
Antimony	SB	N/A		0.60 U				0.59 U		
Arsenic	7.5 or SB	3 - 12	0.76 B	1.4	1.1	**9.5**	6.7	1.2	0.99 B	0.65 B
Barium	300 or SB	15 - 600	8.4 B	13.5 B	5.4 B	5.7 B	15.0 B	5.6 B	7.5 B	6.6 B
Beryllium	0.16 or SB	0 - 1.75		0.11 B				0.10 B		
Calcium	SB	130 – 35,000		464 B				124 JB*		
Cadmium	10	0.1 - 1	0.17 JBE	0.12 JBE	0.067 JUE	0.067 JUE	0.42 B	0.72	0.83	0.32 B
Chromium	50	1.5 - 40	5.1	7.3	4.9	7.8	19.2	25.6	48.1	39.4
Cobalt	30 or SB	2.5 - 60		2.4 B				1.0 B		
Copper	25 or SB	1 - 50		5.6 JE				3.6 JN		
Iron	2,000 or SB	2,000 – 550,000		**7000** JE				**4190**		
Lead	400	200 - 500	3.0	3.9	2.5	2.2	18.9 J*	2.6 J*	4.2 J*	2.6 J*
Magnesium	SB	100 – 5,000		742				215 B		
Manganese	SB	50 – 5,000		102				57.0		
Nickel	13 or SB	0.5 - 25		3.4 B				2.0 B		
Potassium	SB	8,500 – 43,000		259 JBE				106 JBE		
Selenium	2 or SB	0.1 - 3.9	0.50 JU	0.49 UJ	0.79 J	0.55 J	0.50 UJN	0.48 UJN	0.56 JN	0.48 UJN
Silver	SB	N/A	0.14 U	0.14 U	0.14 U	0.14 U	1.1 JN	0.14 UJN	0.14 UJN	0.14 UJN
Sodium	SB	6,000 - 8,000		60.9 B				16.1 B		
Thallium	SB	N/A		0.52 B				0.41 U		
Vanadium	150 or SB	1 - 300		9.0				3.5 B		
Zinc	20 or SB	9 - 50		11.4 E				16.1		
Chromium (VI)	50	1.5 - 40		1 U				3.5		
Cyanide	**	--		0.52 UJN				0.51 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring F-1									
			0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60
			TOB040	TOB040	TOB040	TOB040	TOB040	TOB040	TOB040	TOB040	TOB040	TOB040
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.075 B	0.062 B	0.051 U	0.051 U	0.053 U	0.051 U	0.051 U	0.052 U	0.055 U	0.052 U
Aluminum	SB	33,000						5400				
Antimony	SB	N/A						0.34 U				
Arsenic	7.5 or SB	3 - 12	4.0	3.8	1.1	0.86 B	5.3	1.6	4.7	1.3	2.0	1.4
Barium	300 or SB	15 - 600	15.0 B	29.2	10.6 B	4.1 B	27.8	24.7	12.0 B	6.1 B	4.8 B	4.2 B
Beryllium	0.16 or SB	0 - 1.75						1.7 JU				
Calcium	SB	130 – 35,000						180 JB*				
Cadmium	10	0.1 - 1	0.42 B	0.13 B	0.037 U	0.037 U	0.21 B	0.037 U	0.037 U	0.038 U	0.040 U	0.038 U
Chromium	50	1.5 - 40	18.1	17.0	3.8 J	2.2 J	20.8	6.8	10.4	6.9	2.6 J	4.4
Cobalt	30 or SB	2.5 - 60						2.1 B				
Copper	25 or SB	1 - 50						6.0				
Iron	2,000 or SB	2,000 – 550,000						**10700**				
Lead	400	200 - 500	11.6 JNE	7.5 JNE	1.5 JNE	0.65 JNE	12.5 JNE	1.3 JNE	0.12 UJNE	0.49 JNE	2.3 JNE	1.3 JNE
Magnesium	SB	100 – 5,000						1600				
Manganese	SB	50 – 5,000						165 JN				
Nickel	13 or SB	0.5 - 25						7.0				
Potassium	SB	8,500 – 43,000						316 B				
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.60 U	0.55 U	0.55 U	0.57 U	0.55 U	0.55 U	0.56 U	0.59 U	0.56 U
Silver	SB	N/A	1.5	0.40 U	0.37 U	0.36 U	2.0	0.37 U	0.37 U	0.37 U	0.39 U	0.37 U
Sodium	SB	6,000 - 8,000						23.1 B				
Thallium	SB	N/A						0.66 B				
Vanadium	150 or SB	1 - 300						7.6				
Zinc	20 or SB	9 - 50						**20.8**				
Chromium (VI)	50	1.5 - 40						1 U				
Cyanide	**	–						0.51 U				

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring F-3								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB043	TOB043	TOB043	TOB043	TOB043	TOB043	TOB043	TOB043	TOB043
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.11**	0.075 B	0.053 U	0.051 U	0.052 U	0.052 U	0.052 U	0.055 U	0.056 U
Aluminum	SB	33,000				1620					
Antimony	SB	N/A				0.34 U					
Arsenic	7.5 or SB	3 - 12	7.1	5.0	3.5	1.4	1.3	2.7	5.1	**38.0**	2.3
Barium	300 or SB	15 - 600	24.2	18.0 B	18.1 B	6.0 B	6.2 B	5.4 B	7.9 B	5.4 B	13.4 B
Beryllium	0.16 or SB	0 - 1.75				1.7 JU					
Calcium	SB	130 – 35,000				159 B					
Cadmium	10	0.1 - 1	0.75	0.57	0.34 B	0.17 B	0.038 U	0.038 U	0.038 U	0.040 U	0.24 B
Chromium	50	1.5 - 40	25.7 J*E	19.1 J*E	17.8 J*E	14.8 J*E	4.0 J*E	25.1 J*E	15.9 J*E	40.3 J*E	11.2 J*E
Cobalt	30 or SB	2.5 - 60				1.3 B					
Copper	25 or SB	1 - 50				3.7					
Iron	2,000 or SB	2,000 – 550,000				**6240**					
Lead	400	200 - 500	23.3 JN*	15.7 JN*	10.1 JN*	2.0 JN*	0.84 JN*	0.37 JN*	0.60 JN*	0.22 JBN*	5.2 JN*
Magnesium	SB	100 – 5,000				283 JBE					
Manganese	SB	50 – 5,000				74.7					
Nickel	13 or SB	0.5 - 25				2.0 B					
Potassium	SB	8,500 – 43,000				153 JBE					
Selenium	2 or SB	0.1 - 3.9	0.57	0.57 U	0.56 U	0.55 U	0.56 U	0.56 U	0.56 U	0.59 U	0.20 U
Silver	SB	N/A	2.4	1.7	1.3	0.37 U	0.37 U	0.37 U	0.37 U	0.39 U	0.50 B
Sodium	SB	6,000 - 8,000				19.6 B					
Thallium	SB	N/A				0.83 B					
Vanadium	150 or SB	1 - 300				4.4 B					
Zinc	20 or SB	9 - 50				8.2 JE					
Chromium (VI)	50	1.5 - 40				1 U					
Cyanide	**	--				0.51 U					

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring F-5								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			SDG	SDG	SDG	SDG	SDG	SDG	SDG	SDG	SDG
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 U	0.054 U	0.052 U	0.052 U	0.054 U	0.053 U	0.052 U	0.053 U	0.059 U
Aluminum	SB	33,000		3500 JE							
Antimony	SB	N/A		0.36 U							
Arsenic	7.5 or SB	3 - 12	2.3	1.4	0.97	1.6	0.79	6.8	0.59 U	0.60 U	0.85
Barium	300 or SB	15 - 600	10.4	10.0	7.4	8.4	7.1	14.0	4.3	1.8	3.3
Beryllium	0.16 or SB	0 - 1.75		1.9 JU							
Calcium	SB	130 – 35,000		673							
Cadmium	10	0.1 - 1	0.067 B	0.051 B	0.073 B	0.038 U	0.040 U	0.043 B	0.038 U	0.039 U	0.043 U
Chromium	50	1.5 - 40	24.9	13.2	11.4	32.5	6.9	50.3	3.9	0.42 B	3.5
Cobalt	30 or SB	2.5 - 60		2.2 B							
Copper	25 or SB	1 - 50		3.1							
Iron	2,000 or SB	2,000 – 550,000		**6990** J*							
Lead	400	200 - 500	1.3	1.5	1.1	1.0	0.87	1.3	0.73	0.66	0.99
Magnesium	SB	100 – 5,000		597							
Manganese	SB	50 – 5,000		85.4 J*							
Nickel	13 or SB	0.5 - 25		2.9 B							
Potassium	SB	8,500 – 43,000		231 JBE							
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.58 U	0.55 U	0.56 U	0.58 U	0.56 U	0.56 U	0.57 U	0.64 U
Silver	SB	N/A	0.37 U	0.39 U	0.37 U	0.37 U	0.39 U	0.38 U	0.37 U	0.38 U	0.43 U
Sodium	SB	6,000 - 8,000		27.0 B							
Thallium	SB	N/A		0.54 U							
Vanadium	150 or SB	1 - 300		6.7							
Zinc	20 or SB	9 - 50		9.8 J*E							
Chromium (VI)	50	1.5 - 40		1.3							
Cyanide	**	–		0.54 U							

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring F-7							
			0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60
			TOB029	TOB029	TOB029	TOB029	TOB029	TOB029	TOB029	TOB029
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.052 U	0.057 U
Aluminum	SB	33,000		1920						
Antimony	SB	N/A		0.34 U						
Arsenic	7.5 or SB	3 - 12	2.2	1.2	0.58 U	0.58 U	3.5	0.63 B	3.9	0.65 U
Barium	300 or SB	15 - 600	9.0 B	9.8 B	4.2 B	5.6 B	6.2 B	2.2 B	3.7 B	2.3 B
Beryllium	0.16 or SB	0 - 1.75		1.8 JU						
Calcium	SB	130 – 35,000		11700 J*						
Cadmium	10	0.1 - 1	0.17 B	0.061 B	0.038 U	0.037 U	0.038 U	0.038 U	0.038 U	0.042 U
Chromium	50	1.5 - 40	24.2 J*	6.6 J*	4.3 J*	5.0 J*	6.1 J*	1.8 J*	7.7 J*	0.79 JB*
Cobalt	30 or SB	2.5 - 60		1.4 B						
Copper	25 or SB	1 - 50		5.4						
Iron	2,000 or SB	2,000 – 550,000		**4150**						
Lead	400	200 - 500	3.0	2.8	1.1	0.51	0.59	1.0	1.2	0.77
Magnesium	SB	100 – 5,000		3930 J*						
Manganese	SB	50 – 5,000		68.7						
Nickel	13 or SB	0.5 - 25		2.7 B						
Potassium	SB	8,500 – 43,000		187 JBE						
Selenium	2 or SB	0.1 - 3.9	0.56 U	0.55 U	0.55 U	0.55 U	0.56 U	0.56 U	0.56 U	0.62 U
Silver	SB	N/A	0.37 JUN	0.75 JBN	0.37 JUN	0.37 JUN	0.37 JUN	0.37 JUN	0.37 JUN	0.41 JUN
Sodium	SB	6,000 - 8,000		74.7 B						
Thallium	SB	N/A		0.51 U						
Vanadium	150 or SB	1 - 300		7.2						
Zinc	20 or SB	9 - 50		19.0 JE						
Chromium (VI)	50	1.5 - 40		1 U						
Cyanide	**	–		0.51 U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring F-9									
			0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60
			TOB029	TOB029	TOB029	TOB029	TOB029	TOB029	TOB029	TOB029	TOB029	TOB029
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 B	0.051 U	0.051 U	0.052 U	0.051 U	0.066 B	0.064 B	0.053 U	0.052 U	0.057 U
Aluminum	SB	33,000				758						
Antimony	SB	N/A				0.34 U						
Arsenic	7.5 or SB	3 - 12	0.93 B	0.57 U	1.6	0.98 B	0.73 B	1.1	**28.7**	1.3	2.0	1.7
Barium	300 or SB	15 - 600	6.2 B	4.0 B	5.5 B	4.4 B	4.6 B	4.9 B	12.9 B	1.6 B	3.5 B	1.4 B
Beryllium	0.16 or SB	0 - 1.75				1.8 JU						
Calcium	SB	130 – 35,000				126 JB*						
Cadmium	10	0.1 - 1	0.037 U	0.037 U	0.038 U	0.038 U	0.037 U	0.037 U	0.041 U	0.039 U	0.038 U	0.042 U
Chromium	50	1.5 - 40	5.1 J*	2.2 J*	4.9 J*	5.2 J*	18.2 J*	3.5 J*	59.9 J*	2.7 J*	3.1 J*	1.4 J*
Cobalt	30 or SB	2.5 - 60				0.69 B						
Copper	25 or SB	1 - 50				1.6 B						
Iron	2,000 or SB	2,000 – 550,000				**2600**						
Lead	400	200 - 500	0.90	2.9	1.2	0.56	0.45	0.54	0.13 U	1.9	0.48	1.7
Magnesium	SB	100 – 5,000				180 JB*						
Manganese	SB	50 – 5,000				32.7						
Nickel	13 or SB	0.5 - 25				1.3 B						
Potassium	SB	8,500 – 43,000				122 JBE						
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.55 U	0.55 U	0.56 U	0.55 U	0.55 U	0.61 U	0.57 U	0.55 U	0.61 U
Silver	SB	N/A	0.36 JUN	0.36 JUN	0.37 JUN	0.37 UN	0.36 JUN	0.37 JUN	0.40 JUN	0.38 JUN	0.37 JUN	0.41 JUN
Sodium	SB	6,000 - 8,000				32.2 B						
Thallium	SB	N/A				0.52 U						
Vanadium	150 or SB	1 - 300				2.0 B						
Zinc	20 or SB	9 - 50				6.4 JE						
Chromium (VI)	50	1.5 - 40				1 U						
Cyanide	**	--				0.52 U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring F-11								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB033	TOB033	TOB033	TOB033	TOB033	TOB033	TOB033	TOB033	TOB033
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.053 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.053 U	0.052 U	0.058 U
Aluminum	SB	33,000			1290						
Antimony	SB	N/A			0.37 B						
Arsenic	7.5 or SB	3 - 12	1.7	2.7	0.66 B	0.65 B	0.61 B	**34.6**	**37.9** B	**9.1**	2.9
Barium	300 or SB	15 - 600	8.9 B	9.3 B	3.4 B	2.6 B	5.4 B	4.6 B	7.1 U	3.8 B	4.2 B
Beryllium	0.16 or SB	0 - 1.75			1.8 JU						
Calcium	SB	130 – 35,000			175 B						
Cadmium	10	0.1 - 1	0.052 B	0.038 B	0.038 U	0.038 U	0.037 U	0.038 U	0.78 U	0.038 U	0.043 U
Chromium	50	1.5 - 40	7.3	7.6	8.6	6.4	2.2	37.0	**107** B	17.3	5.2
Cobalt	30 or SB	2.5 - 60			0.96 B						
Copper	25 or SB	1 - 50			1.5 B						
Iron	2,000 or SB	2,000 – 550,000			**2900** J*						
Lead	400	200 - 500	11.4	6.7	1.0	0.52	0.28 B	0.12 U	2.5 U	1.3	1.5
Magnesium	SB	100 – 5,000			166 B						
Manganese	SB	50 – 5,000			65.0 J*						
Nickel	13 or SB	0.5 - 25			1.7 B						
Potassium	SB	8,500 – 43,000			116 JBE						
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	11.4 U	0.56 U	0.63 U
Silver	SB	N/A	0.38 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	7.6 U	0.37 U	0.42 U
Sodium	SB	6,000 - 8,000			14.6 B						
Thallium	SB	N/A			0.51 U						
Vanadium	150 or SB	1 - 300			2.3 B						
Zinc	20 or SB	9 - 50			5.0						
Chromium (VI)	50	1.5 - 40			1 U						
Cyanide	**	–			0.51 U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring F-13															
			0-2		2-4		4-6		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB040		TOB040		TOB040		TOB040		TOB040		TOB040		TOB040		TOB040		TOB040	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.051	U	0.052	U	0.051	U	0.051	U	0.052	U	0.052	U	0.054	U	0.050	U	0.057	U
Aluminum	SB	33,000	2270																	
Antimony	SB	N/A	0.34	U																
Arsenic	7.5 or SB	3 - 12	5.5		2.9		2.9		0.89	B	0.79	B	1.6		4.2		**19.6**		2.5	
Barium	300 or SB	15 - 600	8.2	B	9.1	B	12.7	B	4.6	B	18.8	B	5.7	B	4.1	B	5.1	B	3.6	B
Beryllium	0.16 or SB	0 - 1.75	1.8	JU																
Calcium	SB	130 – 35,000	3120	J*																
Cadmium	10	0.1 - 1	0.34	B	0.47	B	0.35	B	0.038	U	0.038	U	0.038	U	0.039	U	0.040	U	0.042	U
Chromium	50	1.5 - 40	19.8		24.2		34.2		5.1		3.1	J	8.6		7.4		39.3		9.1	
Cobalt	30 or SB	2.5 - 60	6.1																	
Copper	25 or SB	1 - 50	5.4																	
Iron	2,000 or SB	2,000 – 550,000	**4720**																	
Lead	400	200 - 500	7.0	JNE	4.9	JNE	4.8	JNE	0.86	JNE	1.1	JNE	0.92	JNE	1.6	JNE	0.13	JUNE	0.80	JNE
Magnesium	SB	100 – 5,000	715																	
Manganese	SB	50 – 5,000	59.7	JN																
Nickel	13 or SB	0.5 - 25	2.0	B																
Potassium	SB	8,500 – 43,000	265	B																
Selenium	2 or SB	0.1 - 3.9	0.55	U	0.56	U	0.55	U	0.55	U	0.56	U	0.55	U	0.58	U	0.59	U	0.61	U
Silver	SB	N/A	0.96	B	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.38	U	0.39	U	0.41	U
Sodium	SB	6,000 - 8,000	94.6	B																
Thallium	SB	N/A	0.51	U																
Vanadium	150 or SB	1 - 300	7.6																	
Zinc	20 or SB	9 - 50	19.5																	
Chromium (VI)	50	1.5 - 40	1.1																	
Cyanide	**	–	0.51	U																

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring F-2				Boring F-4			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB041	TOB041	TOB041	TOB041	TOB024	TOB024	TOB024	TOB024
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.13**	0.080 B	0.052 U	**0.12**	0.054 U	0.053 U	0.051 U	0.051 U
Aluminum	SB	33,000		7880 J				1510 *		
Antimony	SB	N/A		0.35 U				0.35 U		
Arsenic	7.5 or SB	3 - 12	6.7	4.6	2.6	2.4	3.5	1.1	1.2	0.92 B
Barium	300 or SB	15 - 600	27.4	22.1	15.0 B	14.5 B	21.2 B	17.9 B	3.2 B	5.9 B
Beryllium	0.16 or SB	0 - 1.75		1.8 JU				1.8 U		
Calcium	SB	130 – 35,000		790 J				119 BE		
Cadmium	10	0.1 - 1	1.4 JN	0.85 JN	0.61 JN	0.51 JBN	0.77	0.13 B	0.037 U	0.038 U
Chromium	50	1.5 - 40	42.7 J	39.7 J	22.9 J	25.9 J	22.8 *	2.0 *	4.7 *	13.4 *
Cobalt	30 or SB	2.5 - 60		3.7 B				4.7 B		
Copper	25 or SB	1 - 50		42.0				2.3 B		
Iron	2,000 or SB	2,000 – 550,000		**10300** J				**2970** *		
Lead	400	200 - 500	28.0 R	23.8 R	12.1 R	10.2 R	16.3 N*	3.8 N*	0.72 N*	0.89 N*
Magnesium	SB	100 – 5,000		1050				239 B		
Manganese	SB	50 – 5,000		114 R				172 N*		
Nickel	13 or SB	0.5 - 25		6.8				2.4 B		
Potassium	SB	8,500 – 43,000		388 JBE				127 BE		
Selenium	2 or SB	0.1 - 3.9	0.55 JUN	0.58 JUN	0.56 JUN	0.56 JUN	0.58 U	0.57 U	0.55 U	0.55 U
Silver	SB	N/A	7.0	8.4	3.8	3.0	0.70 B	0.38 U	0.36 U	0.37 U
Sodium	SB	6,000 - 8,000		26.6 B				17.1 B		
Thallium	SB	N/A		0.54 U				0.90 B		
Vanadium	150 or SB	1 - 300		15.0				2.9 B		
Zinc	20 or SB	9 - 50		**37.0** JN				7.1 *		
Chromium (VI)	50	1.5 - 40		1.1 U				2.1		
Cyanide	**	–		2.8				0.53 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring F-6				Boring F-8			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB023	TOB023	TOB023	TOB023	TOB028	TOB028	TOB028	TOB028
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.057 U
Aluminum	SB	33,000		1240			2050 J*			
Antimony	SB	N/A		0.34 U			0.34 U			
Arsenic	7.5 or SB	3 - 12	1.3 JN*	0.82 JBN*	0.98 JBN*	0.58 UJN*	1.4	0.86 B	0.83 B	0.84 B
Barium	300 or SB	15 - 600	8.8 B	4.3 JB	4.6 B	5.1 B	7.9 B	4.3 B	6.2 B	6.6 B
Beryllium	0.16 or SB	0 - 1.75		1.8 U			1.8 JU			
Calcium	SB	130 – 35,000		204 B			3040 J*			
Cadmium	10	0.1 - 1	0.051 B	0.038 U	0.038 U	0.038 U	0.068 B	0.038 U	0.039 B	0.042 U
Chromium	50	1.5 - 40	10.5 J*E	2.3 J*E	4.9 J*E	9.3 J*E	5.7	2.3	6.5	27.7
Cobalt	30 or SB	2.5 - 60		1.1 B			4.8 B			
Copper	25 or SB	1 - 50		1.8 B			4.1			
Iron	2,000 or SB	2,000 – 550,000		**4320** J*			**5380**			
Lead	400	200 - 500	1.5 J*	0.40 J*	0.48 J*	0.69 J*	2.7 J*	0.80 J*	1.0 J*	0.54 J*
Magnesium	SB	100 – 5,000		348 B			635			
Manganese	SB	50 – 5,000		57.0 J*			88.2 J*			
Nickel	13 or SB	0.5 - 25		1.3 B			3.1 B			
Potassium	SB	8,500 – 43,000		134 B			168 B			
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.56 U	0.55 U	0.61 U
Silver	SB	N/A	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.41 U
Sodium	SB	6,000 - 8,000		21.4 B			68.9 B			
Thallium	SB	N/A		0.51 U			0.52 U			
Vanadium	150 or SB	1 - 300		3.2 B			6.4			
Zinc	20 or SB	9 - 50		5.9 *			14.9 J*E			
Chromium (VI)	50	1.5 - 40		1 U			1.7			
Cyanide	**	–		0.51 UJ			0.52 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring F-10			
			0-2	2-4	4-6	8-10
			TOB032	TOB032	TOB032	TOB032
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.055 U	0.052 U	0.052 U	0.052 U
Aluminum	SB	33,000		1960		
Antimony	SB	N/A		0.34 U		
Arsenic	7.5 or SB	3 - 12	2.0	2.1	0.99 B	1.4
Barium	300 or SB	15 - 600	12.0 B	7.6 B	5.0 B	9.1 B
Beryllium	0.16 or SB	0 - 1.75		1.8 UJ		
Calcium	SB	130 – 35,000		223 B		
Cadmium	10	0.1 - 1	0.041 U	0.038 U	0.038 U	0.038 U
Chromium	50	1.5 - 40	6.1	6.5	3.5	16.4
Cobalt	30 or SB	2.5 - 60		1.4 B		
Copper	25 or SB	1 - 50		2.8		
Iron	2,000 or SB	2,000 – 550,000		**11800**		
Lead	400	200 - 500	3.6	0.59	0.67	1.1
Magnesium	SB	100 – 5,000		348 B		
Manganese	SB	50 – 5,000		75.5		
Nickel	13 or SB	0.5 - 25		2.0 B		
Potassium	SB	8,500 – 43,000		157 B		
Selenium	2 or SB	0.1 - 3.9	0.60 U	0.55 U	0.56 U	0.56 U
Silver	SB	N/A	0.40 U	0.37 U	0.37 U	0.37 U
Sodium	SB	6,000 - 8,000		18.0 B		
Thallium	SB	N/A		0.62 B		
Vanadium	150 or SB	1 - 300		4.8 B		
Zinc	20 or SB	9 - 50		8.6		
Chromium (VI)	50	1.5 - 40		1 U		
Cyanide	**	--		0.52 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring G-1					Boring G-2			
			0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	8-10
			TOB041	TOB041	TOB041	TOB041	TOB041	TOB042	TOB042	TOB042	TOB042
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.14**	0.052 U	0.052 U	0.051 U	0.052 U	0.053 U	0.053 U	0.055 B	0.052 U
Aluminum	SB	33,000			5370				4570		
Antimony	SB	N/A			0.34 U				0.35 U		
Arsenic	7.5 or SB	3 - 12	5.2	2.2	2.4	**13.6**	1.4	7.1	3.1	2.9	0.90 B
Barium	300 or SB	15 - 600	25.6	13.1 B	41.1	5.7 B	24.7	14.6 B	19.8 B	12.8 B	8.2 B
Beryllium	0.16 or SB	0 - 1.75			1.8 JU				1.8 JU		
Calcium	SB	130 – 35,000			2590				574		
Cadmium	10	0.1 - 1	1.6 JN	0.86 JN	0.47 JBN	0.074 JBN	0.44 JBN	0.69 RN*	13.0 RN*	1.4 RN*	2.5 RN*
Chromium	50	1.5 - 40	**55.6**	16.4	20.5	3.4	20.6	22.2 J*	221 J*	35.0 J*	**55.2** J*
Cobalt	30 or SB	2.5 - 60			6.7				2.8 B		
Copper	25 or SB	1 - 50			**57.6**				23.7 JE		
Iron	2,000 or SB	2,000 – 550,000			**14900**				**7360**		
Lead	400	200 - 500	16.0	7.3	3.8	1.2	3.0	6.1	18.9	10.5	4.4
Magnesium	SB	100 – 5,000			1680				588		
Manganese	SB	50 – 5,000			105				161 JN*		
Nickel	13 or SB	0.5 - 25			5.8				7.2		
Potassium	SB	8,500 – 43,000			444 JBE				241 JBE		
Selenium	2 or SB	0.1 - 3.9	0.57 JUN	0.56 JUN	0.56 JUN	0.55 JUN	0.55 JUN	0.56 U	0.57 U	0.58 U	0.56 U
Silver	SB	N/A	6.9	1.0	1.5	0.37 U	0.93 B	1.8	2.2	2.1	0.37 U
Sodium	SB	6,000 - 8,000			315 B				21.5 B		
Thallium	SB	N/A			0.52 U				0.64 B		
Vanadium	150 or SB	1 - 300			41.1 J				8.0		
Zinc	20 or SB	9 - 50			**29.2** N				**117** JN*		
Chromium (VI)	50	1.5 - 40			1.1				1.3		
Cyanide	**	--			0.52 U				0.88		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring G-3															
			0-2		2-4		4-6		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB043		TOB043		TOB043		TOB043		TOB043		TOB043		TOB043		TOB043		TOB043	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.052	U	0.054	U	0.054	U	**0.65**		0.064	B	0.053	U	0.051	U	0.055	UN	0.054	UN
Aluminum	SB	33,000							5560											
Antimony	SB	N/A							1.6	B										
Arsenic	7.5 or SB	3 - 12	0.85	B	2.5		1.8		1.6		1.1	B	1.4		0.74	B	**29.0**		0.80	B
Barium	300 or SB	15 - 600	4.1	B	19.1	B	69.0		69.2		22.2		10.6	B	5.0	B	5.4	B	6.2	B
Beryllium	0.16 or SB	0 - 1.75							1.9	JU										
Calcium	SB	130 – 35,000							7340											
Cadmium	10	0.1 - 1	0.27	B	0.33	B	**103**		**141**		**36.2**		9.4		0.038	U	1.8		0.33	B
Chromium	50	1.5 - 40	11.1	J*E	13.3	J*E	**1600**	J*E	**2380**	J*E	**658**	J*E	**184**	J*E	7.1	J*E	**78.6**	J*	10.1	J*
Cobalt	30 or SB	2.5 - 60							2.8	B										
Copper	25 or SB	1 - 50							**58.5**											
Iron	2,000 or SB	2,000 – 550,000							**4920**											
Lead	400	200 - 500	1.2	JN*	5.4	JN*	71.5	JN*	81.1	JN*	22.6	JN*	6.1	JN*	0.40	JN*	7.7	JN	2.0	JN
Magnesium	SB	100 – 5,000							797	JE										
Manganese	SB	50 – 5,000							95.5											
Nickel	13 or SB	0.5 - 25							14.7											
Potassium	SB	8,500 – 43,000							220	JBE										
Selenium	2 or SB	0.1 - 3.9	0.56	U	0.58	U	0.58	U	0.59	U	0.58	U	0.57	U	0.55	U	0.98	J	0.50	JU
Silver	SB	N/A	0.37	U	0.39	U	1.5		0.88	B	0.39	U	0.38	U	0.37	U	0.15	U	0.14	U
Sodium	SB	6,000 - 8,000							35.0	B										
Thallium	SB	N/A							0.55	U										
Vanadium	150 or SB	1 - 300							6.3											
Zinc	20 or SB	9 - 50							**857**	JE										
Chromium (VI)	50	1.5 - 40							6.3											
Cyanide	**	--							14.4											

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring G-4					Boring G-5			
			0-2	2-4	4-6	8-10	12-14	0-2	2-4	4-6	8-10
			TOB035	TOB035	TOB035	TOB035	TOB035	TOB038	TOB038	TOB038	TOB038
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 UN	0.067 UN	**0.34** JN	**1.0** JN	0.056 UN	0.051 U	0.052 U	0.053 U	0.052 U
Aluminum	SB	33,000		1560		9240	4450 J		1450 J*E		
Antimony	SB	N/A		0.78 JUN		9.0 JN	0.65 UN		0.60 U		
Arsenic	7.5 or SB	3 - 12	0.93 B	5.9	4.6	7.7	1.7	3.8	0.64 B	1.3	1.8
Barium	300 or SB	15 - 600	10.4 B	83.7	40.6	61.1	13.8 B	81.5 JE	6.0 JBE	8.9 JBE	8.6 JBE
Beryllium	0.16 or SB	0 - 1.75		0.86		0.18 B	0.10 B		0.12 B		
Calcium	SB	130 – 35,000		643 B		**162000**	2320		100 B		
Cadmium	10	0.1 - 1	0.40 B	0.91	7.6	**105**	0.23 B	0.34 B	0.16 B	0.10 B	0.087 B
Chromium	50	1.5 - 40	16.7 JN	14.0 JN	**142** JN	**977** JN	14.6 JN	20.1 JN*	11.0 JN*	13.7 JN*	15.6 JN*
Cobalt	30 or SB	2.5 - 60		5.6 B		5.1 B	2.5 B		0.92 B		
Copper	25 or SB	1 - 50		**31.5** J*		**179** J*	4.7 J*		2.0 B		
Iron	2,000 or SB	2,000 – 550,000		**3080**		**25800**	**8860**		**2290** JE		
Lead	400	200 - 500	2.3	6.1	112	224	6.5	3.3 JN*	1.6 JN*	2.2 JN*	2.6 JN*
Magnesium	SB	100 – 5,000		102 B		1820	629		201 JBE		
Manganese	SB	50 – 5,000		8.4 J*		214 J*	59.6 J*		23.7 JNE		
Nickel	13 or SB	0.5 - 25		11.4		**22.6**	3.3 B		1.6 B		
Potassium	SB	8,500 – 43,000		167 B		485 B	281 B		104 JBE		
Selenium	2 or SB	0.1 - 3.9	0.47 U	0.86 J	0.61 J	0.89 J	0.53 U	0.90 JN	0.49 JUN	0.49 JUN	0.49 JUN
Silver	SB	N/A	0.29 B	3.3	6.9	1.5	0.15 U	0.19 B	0.14 U	0.14 U	0.14 U
Sodium	SB	6,000 - 8,000		201 B		437 B	105 B		22.6 B		
Thallium	SB	N/A		0.54 U		1.6	0.50 B		0.48 B		
Vanadium	150 or SB	1 - 300		20.0		7.1	8.1		2.6 JBE		
Zinc	20 or SB	9 - 50		**124**		**9570**	**30.2**		5.4 J*		
Chromium (VI)	50	1.5 - 40		1.3 U		1.4 U	1.1 U		1.0 J		
Cyanide	**	–		0.67 U		**84.0** E	0.9 JE		0.52 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring G-6				Boring G-7			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB038	TOB038	TOB038	TOB038	TOB030	TOB030	TOB030	TOB030
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.055 U	0.064 B	**0.14**	**0.17**	0.053 U	0.059 B	0.053 U	**0.11** B
Aluminum	SB	33,000		4290 J*E			1690 J*			
Antimony	SB	N/A		0.66 U			0.61 U			
Arsenic	7.5 or SB	3 - 12	1.1	4.9	2.1	4.8	1.7	3.9	3.4	**13.8**
Barium	300 or SB	15 - 600	15.6 JBE	34.3 JE	39.5 JE	30.0 JE	7.0 B	23.7	14.9 B	168
Beryllium	0.16 or SB	0 - 1.75		0.47 B			0.12 B			
Calcium	SB	130 – 35,000		12000			3160			
Cadmium	10	0.1 - 1	0.14 B	0.93	2.2	1.3	0.069 U	0.48 B	0.65	**19.9**
Chromium	50	1.5 - 40	19.2 JN*	29.9 JN*	**97.7** JN*	49.1 JN*	6.5	41.5	38.1	**904**
Cobalt	30 or SB	2.5 - 60		1.6 B			2.5 B			
Copper	25 or SB	1 - 50		18.0			2.5 B			
Iron	2,000 or SB	2,000 – 550,000		**3700** JE			**4780** J*			
Lead	400	200 - 500	3.1 JN*	27.1 JN*	49.1 JN*	61.9 JN*	1.7	23.2	14.6	231
Magnesium	SB	100 – 5,000		**5100** JE			385 B			
Manganese	SB	50 – 5,000		390 JNE			91.8			
Nickel	13 or SB	0.5 - 25		4.4 B			2.1 B			
Potassium	SB	8,500 – 43,000		449 JBE			145 B			
Selenium	2 or SB	0.1 - 3.9	0.51 JUN	0.64 JN	0.54 JUN	0.52 JUN	0.54 JN	0.75 JN	0.50 UN	2.9 JN
Silver	SB	N/A	0.15 U	1.2	2.9	0.99 B	0.14 U	4.1	3.1	6.2
Sodium	SB	6,000 - 8,000		191 B			37.1 B			
Thallium	SB	N/A		0.46 U			0.42 U			
Vanadium	150 or SB	1 - 300		9.1 JE			5.1 B			
Zinc	20 or SB	9 - 50		**47.5** J*			4.7			
Chromium (VI)	50	1.5 - 40		2.3			1.7			
Cyanide	**	--		0.57 U			0.53 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring G-8				Boring G-9				
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	6-8	8-10
			TOB032	TOB032	TOB032	TOB032	TOB032	TOB032	TOB032	TOB032	TOB032
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.053 U	**0.22**	**1.5**	**0.67**	0.052 U	0.051 U	0.052 U	0.051 U	0.051 U
Aluminum	SB	33,000	3530								1340
Antimony	SB	N/A	80.5								0.34 U
Arsenic	7.5 or SB	3 - 12	1.6	3.4	**12.8**	4.5	1.2	1.8	1.5	0.81 B	1.1
Barium	300 or SB	15 - 600	25.7	120	91.7	285	6.7 B	4.9 B	11.2 B	5.4 B	7.6 B
Beryllium	0.16 or SB	0 - 1.75	1.8 UJ								1.8 JU
Calcium	SB	130 – 35,000	4280								352 B
Cadmium	10	0.1 - 1	0.045 B	2.0	0.57	1.1	0.038 U	0.037 U	0.038 U	0.037 U	0.037 U
Chromium	50	1.5 - 40	13.6	**119**	**57.1**	49.1	4.9	2.4	21.4	2.4	15.1
Cobalt	30 or SB	2.5 - 60	2.9 B								1.4 B
Copper	25 or SB	1 - 50	10.8								3.7
Iron	2,000 or SB	2,000 – 550,000	**5850**								**5460**
Lead	400	200 - 500	6.3	343	73.3	70.0	1.5	0.44	1.6	0.17 B	0.64
Magnesium	SB	100 – 5,000	964								296 B
Manganese	SB	50 – 5,000	76.9								80.5
Nickel	13 or SB	0.5 - 25	5.0								2.6 B
Potassium	SB	8,500 – 43,000	518 B								212 B
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.58 U	1.9	0.62 U	0.55 U	0.54 U	0.56 U	0.55 U	0.55 U
Silver	SB	N/A	0.38 U	1.8	1.0 B	0.42 B	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U
Sodium	SB	6,000 - 8,000	139 B								49.2 B
Thallium	SB	N/A	0.53 U								0.51 U
Vanadium	150 or SB	1 - 300	8.2								3.6 B
Zinc	20 or SB	9 - 50	**32.0**								6.6
Chromium (VI)	50	1.5 - 40	1.1 U								1.7
Cyanide	**	–	0.53 U								0.51 U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring G-10				Boring G-11			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB032	TOB032	TOB032	TOB032	TOB044	TOB044	TOB044	TOB044
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.10** B	0.053 U	0.052 U	0.052 U	0.052 JUN	0.052 JUN	0.052 JUN	0.051 JUN
Aluminum	SB	33,000		1700					1500	
Antimony	SB	N/A		0.35 U					0.60 U	
Arsenic	7.5 or SB	3 - 12	**8.9**	2.7	1.3	1.3	1.0 B	0.50 B	0.31 U	0.63 B
Barium	300 or SB	15 - 600	21.5 B	6.2 B	11.2 B	6.5 B	5.8 B	5.4 B	5.5 B	2.7 B
Beryllium	0.16 or SB	0 - 1.75		1.8 UJ					0.082 B	
Calcium	SB	130 – 35,000		188 B					379 B	
Cadmium	10	0.1 - 1	0.11 B	0.039 U	0.038 U	0.038 U	0.068 JUE	0.068 JUE	0.092 JBE	0.067 JUE
Chromium	50	1.5 - 40	13.0	11.8	5.3	7.6	8.4	4.4	4.6	7.8
Cobalt	30 or SB	2.5 - 60		1.1 B					1.1 B	
Copper	25 or SB	1 - 50		7.4					2.5 JBE	
Iron	2,000 or SB	2,000 – 550,000		**6640**					**2930** JE	
Lead	400	200 - 500	26.9	1.5	2.1	1.5	1.7	1.6	1.6	1.3
Magnesium	SB	100 – 5,000		267 B					247 B	
Manganese	SB	50 – 5,000		61.9					46.6	
Nickel	13 or SB	0.5 - 25		2.0 B					1.5 B	
Potassium	SB	8,500 – 43,000		134 B					158 JBE	
Selenium	2 or SB	0.1 - 3.9	0.59 U	0.57 U	0.56 U	0.56 U	0.49 JU	0.49 JU	0.48 JU	0.54 J
Silver	SB	N/A	0.49 B	0.38 U	0.37 U	0.38 U	0.14 U	0.14 U	0.14 U	0.14 U
Sodium	SB	6,000 - 8,000		15.2 B					17.3 B	
Thallium	SB	N/A		0.53 U					0.41 U	
Vanadium	150 or SB	1 - 300		5.5					3.1 B	
Zinc	20 or SB	9 - 50		6.9					7.2 JE	
Chromium (VI)	50	1.5 - 40		1.1 U					1 U	
Cyanide	**	--		0.53 U					0.52 UJN	

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring G-14			
			0-2	2-4	4-6	8-10
			TOB037	TOB037	TOB037	TOB037
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.053 U	0.052 U	0.051 U	0.052 U
Aluminum	SB	33,000		3200		
Antimony	SB	N/A		0.34 U		
Arsenic	7.5 or SB	3 - 12	0.93 B	1.2	1.5	1.2
Barium	300 or SB	15 - 600	7.2 B	11.2 B	5.1 B	6.3 B
Beryllium	0.16 or SB	0 - 1.75	J	1.8 U		
Calcium	SB	130 – 35,000		1540		
Cadmium	10	0.1 - 1	0.15 B	0.30 B	0.038 U	0.038 U
Chromium	50	1.5 - 40	19.0 JN	**62.1** JN	4.0 JN	10.5 JN
Cobalt	30 or SB	2.5 - 60		6.9		
Copper	25 or SB	1 - 50		4.3		
Iron	2,000 or SB	2,000 – 550,000		**6180**		
Lead	400	200 - 500	2.7 JN	4.7 JN	1.4 JN	1.6 JN
Magnesium	SB	100 – 5,000		735		
Manganese	SB	50 – 5,000		61.5 JN		
Nickel	13 or SB	0.5 - 25		2.7 B		
Potassium	SB	8,500 – 43,000		273 B		
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.56 U	0.55 U	0.56 U
Silver	SB	N/A	0.38 U	0.37 U	0.37 U	0.37 U
Sodium	SB	6,000 - 8,000		93.1 B		
Thallium	SB	N/A		0.52 U		
Vanadium	150 or SB	1 - 300		6.9		
Zinc	20 or SB	9 - 50		**42.3**		
Chromium (VI)	50	1.5 - 40		2.4		
Cyanide	**	–		0.52 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring H-1									
			0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60
			TOB031	TOB031	TOB031	TOB031	TOB031	TOB031	TOB031	TOB031	TOB031	TOB031
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.23**	0.051 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.057 B	0.084 B	**0.11** B
Aluminum	SB	33,000	7120									
Antimony	SB	N/A	0.35 U									
Arsenic	7.5 or SB	3 - 12	7.1	0.92 B	0.95 B	0.59 B	0.58 U	**13.3**	0.81 B	0.96 B	1.1 B	6.4
Barium	300 or SB	15 - 600	63.0	8.0 B	15.5 B	16.4 B	4.0 B	6.8 B	8.4 B	4.9 B	4.6 B	22.1 B
Beryllium	0.16 or SB	0 - 1.75	1.8 JU									
Calcium	SB	130 – 35,000	3160									
Cadmium	10	0.1 - 1	3.2	0.71	0.41 B	0.11 B	0.037 U	0.038 U	0.038 U	0.039 U	0.061 B	0.045 U
Chromium	50	1.5 - 40	**79.3**	10.7	13.8	5.8	2.9	**61.7**	3.5	2.4	4.6	28.1
Cobalt	30 or SB	2.5 - 60	3.8 B									
Copper	25 or SB	1 - 50	44.3									
Iron	2,000 or SB	2,000 – 550,000	**11800**									
Lead	400	200 - 500	29.9	1.8	3.1	1.5	0.84	0.35	0.55	0.61	0.50	8.8
Magnesium	SB	100 – 5,000	1250									
Manganese	SB	50 – 5,000	158									
Nickel	13 or SB	0.5 - 25	7.5									
Potassium	SB	8,500 – 43,000	436 B									
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.55 U	0.55 U	0.55 U	0.55 U	0.56 U	0.55 U	0.58 U	0.61 U	0.66 U
Silver	SB	N/A	11.2	0.37 U	1.1	0.37 U	0.37 U	0.37 U	0.37 U	0.39 U	0.41 U	0.44 U
Sodium	SB	6,000 - 8,000	43.2 B									
Thallium	SB	N/A	0.53 U									
Vanadium	150 or SB	1 - 300	15.4									
Zinc	20 or SB	9 - 50	**72.1**									
Chromium (VI)	50	1.5 - 40	1.1 U									
Cyanide	**	–	0.71									

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring H-3								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB045	TOB045	TOB045	TOB045	TOB045	TOB045	TOB045	TOB045	TOB045
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.078 BN	0.051 UN	0.051 UN	0.052 UN	0.051 UN	0.052 UN	0.052 UN	0.056 UN	0.057 UN
Aluminum	SB	33,000		1050 J*	1370 J*						
Antimony	SB	N/A		0.59 U	0.59 U						
Arsenic	7.5 or SB	3 - 12	4.7	0.62 B	0.73 B	1.3	0.82 B	1.1	0.86 B	3.3	**18.5**
Barium	300 or SB	15 - 600	23.6	9.5 B	6.7 B	6.9 B	6.7 B	7.5 B	7.8 B	9.9 B	7.8 B
Beryllium	0.16 or SB	0 - 1.75		0.089 B	0.099 B						
Calcium	SB	130 – 35,000		77.2 B	77.9 B						
Cadmium	10	0.1 - 1	0.78	0.096 B	0.11 B	1.3	0.38 B	0.099 B	0.068 U	1.7	0.41 B
Chromium	50	1.5 - 40	30.3 J*	4.8 J*	11.4 J*	35.7 J*	10.7 J*	6.4 J*	3.2 J*	21.5 J*	19.8 J*
Cobalt	30 or SB	2.5 - 60		2.8 B	0.95 B						
Copper	25 or SB	1 - 50		2.3 B	3.0						
Iron	2,000 or SB	2,000 – 550,000		**2750**	**3720**						
Lead	400	200 - 500	28.9 JJN	2.0 JN	2.2 JN	2.1 JN	1.4 JN	1.6 JN	0.83 JN	2.8 JN	8.7 JN
Magnesium	SB	100 – 5,000		166 B	260 B						
Manganese	SB	50 – 5,000		65.7	62.2						
Nickel	13 or SB	0.5 - 25		1.5 B	1.9 B						
Potassium	SB	8,500 – 43,000		86.6 B	137 B						
Selenium	2 or SB	0.1 - 3.9	0.52 JU	0.48 JU	0.48 JU	0.49 JU	0.48 JU	0.49 JU	0.49 JU	0.53 JU	1.4 J
Silver	SB	N/A	1.2	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.15 U
Sodium	SB	6,000 - 8,000		13.3 B	19.4 B						
Thallium	SB	N/A		0.41 U	0.41 U						
Vanadium	150 or SB	1 - 300		2.6 B	3.2 B						
Zinc	20 or SB	9 - 50		10.6	8.4						
Chromium (VI)	50	1.5 - 40		1 U	1 U						
Cyanide	**	–		0.51 U	0.51 U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring H-5								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB014	TOB014	TOB014	TOB014	TOB014	TOB014	TOB014	TOB014	TOB014
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 U	0.051 U	0.058 U	0.052 U	0.055 U	0.058 U	0.052 U	0.061 U	0.058 U
Aluminum	SB	33,000		2030							
Antimony	SB	N/A		0.34 U							
Arsenic	7.5 or SB	3 - 12	1.5	1.0	0.66 B	0.58 U	2.1	**31.6**	2.1	1.1 B	1.1 B
Barium	300 or SB	15 - 600	18.1 B	5.9 B	5.3 B	4.1 B	24.5	8.7 B	5.1 B	11.3 B	3.1 B
Beryllium	0.16 or SB	0 - 1.75		1.7 JU							
Calcium	SB	130 – 35,000		2270							
Cadmium	10	0.1 - 1	0.25 B	0.046 B	0.042 U	0.038 U	0.040 U	0.11 B	0.066 B	0.044 U	0.042 U
Chromium	50	1.5 - 40	11.6	6.9	3.8	4.2	9.5	8.9	10.6	1.2	4.9
Cobalt	30 or SB	2.5 - 60		1.9 B							
Copper	25 or SB	1 - 50		2.3 B							
Iron	2,000 or SB	2,000 – 550,000		**5600**							
Lead	400	200 - 500	2.0	1.0	0.99	0.69	2.6	2.5	0.28 B	3.5	0.66
Magnesium	SB	100 – 5,000		406 B							
Manganese	SB	50 – 5,000		133							
Nickel	13 or SB	0.5 - 25		2.5 B							
Potassium	SB	8,500 – 43,000		157 JBE							
Selenium	2 or SB	0.1 - 3.9	0.55 JUN	0.55 JUN	0.62 JUN	0.56 JUN	0.59 JUN	0.62 JUN	0.55 JUN	0.65 JUN	0.62 JUN
Silver	SB	N/A	0.37 U	0.37 U	0.41 U	0.37 U	0.40 U	0.42 U	0.37 U	0.44 U	0.41 U
Sodium	SB	6,000 - 8,000		33.3 B							
Thallium	SB	N/A		0.51 U							
Vanadium	150 or SB	1 - 300		3.9 B							
Zinc	20 or SB	9 - 50		9.9							
Chromium (VI)	50	1.5 - 40		1 U							
Cyanide	**	--		0.51 U							

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring H-7									
			0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60
			TOB039	TOB039	TOB039	TOB039	TOB039	TOB039	TOB039	TOB039	TOB039	TOB039
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 U	0.051 U	0.051 U	0.052 U	0.051 U	0.052 U	0.051 U	0.060 U	0.061 U	0.068 B
Aluminum	SB	33,000	1460								827	
Antimony	SB	N/A	0.33 U								0.40 U	
Arsenic	7.5 or SB	3 - 12	0.95 B	0.90 B	1.8	2.2	1.4	0.58 U	4.7	**24.5**	1.2 B	0.71 B
Barium	300 or SB	15 - 600	6.1 B	5.7 B	4.2 B	6.6 B	6.7 B	10.5 B	4.2 B	16.5 B	7.4 B	3.2 B
Beryllium	0.16 or SB	0 - 1.75	1.7 JU								2.1 JU	
Calcium	SB	130 – 35,000	1090								183 B	
Cadmium	10	0.1 - 1	0.13 B	0.074 B	0.061 B	0.074 B	0.11 B	0.038 U	0.091 B	0.19 B	0.044 U	0.046 U
Chromium	50	1.5 - 40	5.8	4.2	2.4	4.1	10.3	5.7	7.9	28.6	2.3	1.1 B
Cobalt	30 or SB	2.5 - 60	1.3 B								0.49 B	
Copper	25 or SB	1 - 50	2.1 B								2.5 B	
Iron	2,000 or SB	2,000 – 550,000	**2880** J*								1400 J*	
Lead	400	200 - 500	0.98 J*	0.54 J*	0.37 J*	0.83 J*	0.35 J*	0.83 J*	0.12 JU*	9.0 J*	2.1 J*	0.72 J*
Magnesium	SB	100 – 5,000	272 B								61.3 B	
Manganese	SB	50 – 5,000	55.0 J*								6.8 J*	
Nickel	13 or SB	0.5 - 25	2.1 B								0.28 B	
Potassium	SB	8,500 – 43,000	138 B								242 B	
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	1.8	0.65 U	0.67 U
Silver	SB	N/A	0.36 U	0.36 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.43 U	0.43 U	0.45 U
Sodium	SB	6,000 - 8,000	22.3 B								42.0 B	
Thallium	SB	N/A	0.53 B								0.61 U	
Vanadium	150 or SB	1 - 300	2.8 B								4.1 B	
Zinc	20 or SB	9 - 50	5.5 J*								1.7 JB*	
Chromium (VI)	50	1.5 - 40	1 U								1.2 U	
Cyanide	**	–	0.51 U								0.61 U	

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring H-9																	
			0-2		2-4		4-6		6-8		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB011		TOB011		TOB011		TOB011		TOB011		TOB011		TOB011		TOB011		TOB011		TOB011	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.054	U	0.053	U	0.053	U	0.053	U	0.052	U	0.052	U	0.054	U	0.054	U	0.054	U	0.059	U
Aluminum	SB	33,000											1920									
Antimony	SB	N/A											0.60	UN		J						
Arsenic	7.5 or SB	3 - 12	3.4	J	1.8	J	2.5	J	1.5	J	1.2	J	2.3		**13.6**	J	5.0		5.8		2.0	J
Barium	300 or SB	15 - 600	31.4		7.4	B	20.4	B	4.7	B	4.8	B	8.9	B	26.6		3.2	B	6.7	B	2.3	B
Beryllium	0.16 or SB	0 - 1.75											0.25	B								
Calcium	SB	130 – 35,000											2360	J*								
Cadmium	10	0.1 - 1	0.35	B	0.070	U	0.090	B	0.069	U	0.068	U	0.068	U	0.071	U	0.070	U	0.070	U	0.077	U
Chromium	50	1.5 - 40	23.0	JN*	5.1	JN*	11.5	JN*	2.7	JN*	3.4	JN*	16.2	JN*	29.3	JN*	4.3	JN*	8.1	JN*	1.1	BJN*
Cobalt	30 or SB	2.5 - 60											1.6	B								
Copper	25 or SB	1 - 50											4.7									
Iron	2,000 or SB	2,000 – 550,000											**7980**	J*								
Lead	400	200 - 500	11.4	JN	2.0	JN	7.0	JN	1.2	JN	1.8	JN	2.9	JN	6.7	JN	2.1	JN	3.3	JN	1.6	JN
Magnesium	SB	100 – 5,000											594	J*								
Manganese	SB	50 – 5,000											71.1									
Nickel	13 or SB	0.5 - 25											3.4	B								
Potassium	SB	8,500 – 43,000											140	B								
Selenium	2 or SB	0.1 - 3.9	0.51	U	0.50	U	0.49	U	0.49	U	0.49	U	0.49	U	0.51	U	0.50	U	0.50	U	0.55	U
Silver	SB	N/A	0.26	B	0.14	U	0.28	B	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.16	U
Sodium	SB	6,000 - 8,000											72.1	B								
Thallium	SB	N/A											0.50	B								
Vanadium	150 or SB	1 - 300											6.3									
Zinc	20 or SB	9 - 50											12.7									
Chromium (VI)	50	1.5 - 40											1	U								
Cyanide	**	--											0.52	U								

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring H-10								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB036	TOB036	TOB036	TOB036	TOB036	TOB036	TOB036	TOB036	TOB036
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 U	0.052 U	0.051 U	0.051 U	0.053 U	0.052 U	0.093 B	0.054 U	0.059 U
Aluminum	SB	33,000			742 J*						
Antimony	SB	N/A			0.34 U						
Arsenic	7.5 or SB	3 - 12	0.78 B	8.85 U	0.68 B	0.74 B	0.60 U	1.2	**13.9**	2.8	2.3
Barium	300 or SB	15 - 600	6.5 B	60.4 U	3.3 B	5.0 B	6.0 B	4.4 B	4.1 B	4.1 B	3.5 B
Beryllium	0.16 or SB	0 - 1.75			1.7 JU						
Calcium	SB	130 – 35,000			74.6 B						
Cadmium	10	0.1 - 1	0.053 B	1.3 U	0.037 U	0.037 U	0.039 U	0.038 U	0.039 U	0.040 U	0.043 U
Chromium	50	1.5 - 40	6.1 J*	70.9 JU*	3.4 J*	5.9 J*	7.2 J*	6.6 J*	23.6 J*	11.3 J*	2.0 J*
Cobalt	30 or SB	2.5 - 60			0.59 B						
Copper	25 or SB	1 - 50			1.3 B						
Iron	2,000 or SB	2,000 – 550,000			**2520**						
Lead	400	200 - 500	2.0	17.4 U	0.42	0.51	1.1	0.55	0.12 U	0.94	1.2
Magnesium	SB	100 – 5,000			134 B						
Manganese	SB	50 – 5,000			48.4 JN*						
Nickel	13 or SB	0.5 - 25			0.87 B						
Potassium	SB	8,500 – 43,000			106 JBE						
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.56 U	0.55 U	0.54 U	0.57 U	0.55 U	0.57 U	0.58 U	0.63 U
Silver	SB	N/A	0.37 U	0.37 U	0.37 U	0.36 U	0.38 U	0.37 U	0.38 U	0.39 U	0.42 U
Sodium	SB	6,000 - 8,000			28.5 B						
Thallium	SB	N/A			0.51 U						
Vanadium	150 or SB	1 - 300			2.4 B						
Zinc	20 or SB	9 - 50			3.4						
Chromium (VI)	50	1.5 - 40			1 U						
Cyanide	**	--			0.51 U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring H-13						
			0-2	2-4	4-6	8-10	18-20	38-40	58-60
			TOB039	TOB039	TOB039	TOB039	TOB039	TOB039	TOB039
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 U	0.052 U	0.053 U	0.051 U	0.052 U	0.052 U	0.058 U
Aluminum	SB	33,000							407
Antimony	SB	N/A							0.38 U
Arsenic	7.5 or SB	3 - 12	2.0	1.3	0.62 B	1.8	6.6	0.59 U	1.9
Barium	300 or SB	15 - 600	11.8 B	8.0 B	6.0 B	11.8 B	7.1 B	4.2 B	4.4 B
Beryllium	0.16 or SB	0 - 1.75							2.0 JU
Calcium	SB	130 – 35,000							60.4 B
Cadmium	10	0.1 - 1	0.24 B	0.17 B	0.099 B	0.21 B	0.082 B	0.038 U	0.042 U
Chromium	50	1.5 - 40	8.6	10.8	7.7	14.0	10.3	3.5	1.8
Cobalt	30 or SB	2.5 - 60							0.22 B
Copper	25 or SB	1 - 50							1.1 B
Iron	2,000 or SB	2,000 – 550,000							**2400** J*
Lead	400	200 - 500	4.0 J*	1.6 J*	0.98 J*	2.9 J*	0.47 J*	1.3 J*	1.8 J*
Magnesium	SB	100 – 5,000							9.8 B
Manganese	SB	50 – 5,000							4.2 J*
Nickel	13 or SB	0.5 - 25							0.23 U
Potassium	SB	8,500 – 43,000							111 B
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.55 U	0.57 U	0.55 U	0.56 U	0.56 U	0.62 U
Silver	SB	N/A	0.37 U	0.37 U	0.38 U	0.37 U	0.37 U	0.38 U	0.41 U
Sodium	SB	6,000 - 8,000							11.1 B
Thallium	SB	N/A							0.58 U
Vanadium	150 or SB	1 - 300							4.3 B
Zinc	20 or SB	9 - 50							1.9 JB*
Chromium (VI)	50	1.5 - 40							1.2 U
Cyanide	**	–							0.58 U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring H-2				Boring H-4			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB042	TOB042	TOB042	TOB042	TOB037	TOB037	TOB037	TOB037
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.053 U	0.051 U	0.051 U	0.051 U	**0.11**	**0.17**	0.051 U	0.051 U
Aluminum	SB	33,000		1030				2300		
Antimony	SB	N/A		0.33 U				0.34 U		
Arsenic	7.5 or SB	3 - 12	2.8	0.57 U	0.57 U	0.83 B	1.8	1.5	0.58 U	0.92 B
Barium	300 or SB	15 - 600	19.7 B	3.5 B	5.8 B	5.3 B	11.5 B	9.2 B	12.4 B	8.6 B
Beryllium	0.16 or SB	0 - 1.75		1.7 JU				1.8 JU		
Calcium	SB	130 – 35,000		59.6 B				501 B		
Cadmium	10	0.1 - 1	1.4 RN*	0.037 URN*	0.037 URN*	0.037 URN*	3.3	1.5	0.037 U	1.0
Chromium	50	1.5 - 40	**72.0** J*	2.6 J*	3.0 J*	14.1 J*	40.6 JN	**55.5** JN	5.2 JN	22.8 JN
Cobalt	30 or SB	2.5 - 60		0.96 B				1.4 B		
Copper	25 or SB	1 - 50		1.2 JBE				7.2		
Iron	2,000 or SB	2,000 – 550,000		**2050**				**5280**		
Lead	400	200 - 500	14.4	0.98	0.71	0.76	8.8 JN	4.4 JN	0.62 JN	4.2 JN
Magnesium	SB	100 – 5,000		167 B				365 B		
Manganese	SB	50 – 5,000		49.9 JN*				83.9 JN		
Nickel	13 or SB	0.5 - 25		1.5 B				2.6 B		
Potassium	SB	8,500 – 43,000		120 JBE				180 B		
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.55 U	0.55 U	0.55 U	0.57 U	0.56 U	0.55 U	0.55 U
Silver	SB	N/A	3.2	0.36 U	0.36 U	0.37 U	3.6	0.96 B	0.37 U	1.4
Sodium	SB	6,000 - 8,000		14.7 B				37.6 B		
Thallium	SB	N/A		0.51 U				0.52 U		
Vanadium	150 or SB	1 - 300		1.7 B				4.8 B		
Zinc	20 or SB	9 - 50		3.5 JN*				25.4		
Chromium (VI)	50	1.5 - 40		1 U				3.0		
Cyanide	**	–		0.51 U				1.1		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring H-6				Boring H-8			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB037	TOB037	TOB037	TOB037	TOB033	TOB033	TOB033	TOB033
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
Aluminum	SB	33,000		1310			1350			
Antimony	SB	N/A		0.33 U			0.33 U			
Arsenic	7.5 or SB	3 - 12	1.6	0.57 U	0.69 B	0.59 B	0.80 B	0.61 B	1.3	0.68 B
Barium	300 or SB	15 - 600	12.5 B	4.7 B	4.2 B	6.5 B	4.3 B	3.9 B	8.6 B	5.6 B
Beryllium	0.16 or SB	0 - 1.75		1.7 JU			1.7 JU			
Calcium	SB	130 – 35,000		46.5 B			102 B			
Cadmium	10	0.1 - 1	0.038 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.038 U
Chromium	50	1.5 - 40	5.7 JN	2.4 JN	2.3 JN	6.8 JN	3.3	2.2	16.1	**76.9**
Cobalt	30 or SB	2.5 - 60		0.97 B			1.1 B			
Copper	25 or SB	1 - 50		1.7 B			2.0 B			
Iron	2,000 or SB	2,000 – 550,000		**3680**			**2910** J*			
Lead	400	200 - 500	1.5 JN	0.62 JN	0.45 JN	0.61 JN	0.49	0.47	0.91	0.63
Magnesium	SB	100 – 5,000		241 B			275 B			
Manganese	SB	50 – 5,000		59.8 JN			48.1 J*			
Nickel	13 or SB	0.5 - 25		1.5 B			1.8 B			
Potassium	SB	8,500 – 43,000		154 B			178 JBE			
Selenium	2 or SB	0.1 - 3.9	0.56 U	0.54 U	0.55 U	0.55 U	0.54 U	0.55 U	0.55 U	0.55 U
Silver	SB	N/A	0.37 U	0.36 U	0.37 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U
Sodium	SB	6,000 - 8,000		19.9 B			36.3 B			
Thallium	SB	N/A		0.51 U			0.51 U			
Vanadium	150 or SB	1 - 300		3.0 B			2.5 B			
Zinc	20 or SB	9 - 50		5.1			5.6			
Chromium (VI)	50	1.5 - 40		1 U			1 U			
Cyanide	**	–		0.51 U			0.51 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring H-12								Boring H-14									
			0-2		2-4		4-6		8-10		0-2		2-4		4-6		6-8		8-10	
			TOB035		TOB035		TOB035		TOB035		TOB009		TOB009		TOB009		TOB009		TOB009	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.052	UN	0.051	UN	0.051	UN	0.051	UN	0.053	U	0.051	U	0.061	B	0.052	U	0.052	U
Aluminum	SB	33,000			2610												1330			
Antimony	SB	N/A			0.59	JUN											0.60	UJN		
Arsenic	7.5 or SB	3 - 12	0.59	B	1.6		0.44	B	0.93	B	**8.2**		2.9		4.8		0.77	B	2.6	
Barium	300 or SB	15 - 600	6.2	B	8.5	B	2.4	B	7.4	B	20.9	B	8.7	B	17.8	B	6.0	B	12.6	B
Beryllium	0.16 or SB	0 - 1.75			0.14	B											0.091	B		
Calcium	SB	130 – 35,000			439	B											61.4	BEJ		
Cadmium	10	0.1 - 1	0.088	B	0.16	B	0.067	U	0.10	B	0.20	B	0.17	B	0.29	B	0.068	U	0.25	B
Chromium	50	1.5 - 40	8.8	JN	14.7	JN	2.8	JN	13.7	JN	12.6		20.3		25.6		4.5		23.9	
Cobalt	30 or SB	2.5 - 60			1.9	B											1.2	B		
Copper	25 or SB	1 - 50			3.7	J*											2.5	B		
Iron	2,000 or SB	2,000 – 550,000			**5100**												**3920**			
Lead	400	200 - 500	1.9		2.7		0.81	J	2.0		33.2		7.1		20.3		1.3		7.5	
Magnesium	SB	100 – 5,000			408	B											145	B		
Manganese	SB	50 – 5,000			76.7	J*											126	JN		
Nickel	13 or SB	0.5 - 25			2.3	B											1.3	B		
Potassium	SB	8,500 – 43,000			207	B											90.4	B		
Selenium	2 or SB	0.1 - 3.9	0.49	U	0.48	U	0.48	U	0.48	U	0.68	JN	0.71	JN	0.49	UJN	0.49	UJN	0.49	UJN
Silver	SB	N/A	2.4		0.14	U	0.14	U	0.20	B	0.18	B	0.14	U	0.14	U	0.14	U	0.14	U
Sodium	SB	6,000 - 8,000			29.4	B											12.6	B		
Thallium	SB	N/A			0.41	U											0.50	B		
Vanadium	150 or SB	1 - 300			5.6												3.8	B		
Zinc	20 or SB	9 - 50			12.6												5.4			
Chromium (VI)	50	1.5 - 40			1	U											1	U		
Cyanide	**	--			0.51	U											0.52	U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring I-1					
			0-2	2-4	4-6	6-8	8-10	18-20
			TOB041	TOB041	TOB041	TOB041	TOB041	TOB041
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.11**	**0.14**	**0.17**	**0.24**	**0.45**	**0.26**
Aluminum	SB	33,000			8570			12500
Antimony	SB	N/A			0.53 B			2.8 B
Arsenic	7.5 or SB	3 - 12	7.3	2.3	6.4	**10.7**	5.8	4.1
Barium	300 or SB	15 - 600	25.8	15.0 B	31.0	39.3	44.0	36.2
Beryllium	0.16 or SB	0 - 1.75			1.9 JU			2.1 JU
Calcium	SB	130 – 35,000			1180			933
Cadmium	10	0.1 - 1	0.39 JBN	6.4 JN	7.2 JN	7.8 JN	**77.4** JN	26.6 JN
Chromium	50	1.5 - 40	32.2	**140**	**180**	**69.3**	**727**	**1710**
Cobalt	30 or SB	2.5 - 60			3.7 B			2.7 B
Copper	25 or SB	1 - 50			**60.3**			**153**
Iron	2,000 or SB	2,000 – 550,000			**11700**			**9540**
Lead	400	200 - 500	20.4	15.5	31.6	43.7	47.8	58.8
Magnesium	SB	100 – 5,000			948			700
Manganese	SB	50 – 5,000			111			111
Nickel	13 or SB	0.5 - 25			12.9			**62.2**
Potassium	SB	8,500 – 43,000			381 JBE			286 JBE
Selenium	2 or SB	0.1 - 3.9	0.56 JUN	0.57 JUN	0.60 JUN	0.73 JN	0.62 JUN	0.65 JUN
Silver	SB	N/A	2.8	3.0	5.2	3.5	10.4	5.4
Sodium	SB	6,000 - 8,000			45.1 B			47.8 B
Thallium	SB	N/A			0.65 B			0.60 U
Vanadium	150 or SB	1 - 300			15.2			11.2
Zinc	20 or SB	9 - 50			**132** JN			**570** JN
Chromium (VI)	50	1.5 - 40			1.1 U			2.7
Cyanide	**	–			0.89			4.1

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring I-2							
			0-2		2-4		4-6		8-10	
			TOB042		TOB042		TOB042		TOB042	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.063	B	**0.26**		**0.14**		**0.26**	
Aluminum	SB	33,000			8800					
Antimony	SB	N/A			0.37	U				
Arsenic	7.5 or SB	3 - 12	5.5		5.5		5.6		4.6	
Barium	300 or SB	15 - 600	23.0		36.9		31.1		35.5	
Beryllium	0.16 or SB	0 - 1.75			1.9	JU				
Calcium	SB	130 – 35,000			2070					
Cadmium	10	0.1 - 1	1.1	RN*	5.2	RN*	6.0	RN*	**48.3**	RN*
Chromium	50	1.5 - 40	40.3	J*	**74.7**	J*	**90.4**	J*	**869**	J*
Cobalt	30 or SB	2.5 - 60			3.8	B				
Copper	25 or SB	1 - 50			22.7	JE				
Iron	2,000 or SB	2,000 – 550,000			**11300**					
Lead	400	200 - 500	27.7		24.1		24.5		34.7	
Magnesium	SB	100 – 5,000			1090					
Manganese	SB	50 – 5,000			140	JN*				
Nickel	13 or SB	0.5 - 25			8.8					
Potassium	SB	8,500 – 43,000			394	JBE				
Selenium	2 or SB	0.1 - 3.9	0.57	U	0.60	U	0.59	U	0.56	U
Silver	SB	N/A	9.3		4.7		6.3		0.37	U
Sodium	SB	6,000 - 8,000			41.9	B				
Thallium	SB	N/A			0.77	B				
Vanadium	150 or SB	1 - 300			15.7					
Zinc	20 or SB	9 - 50			**96.9**	JN*				
Chromium (VI)	50	1.5 - 40			1.1	U				
Cyanide	**	–			0.56	U				

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring I-3				Boring I-4			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB044	TOB044	TOB044	TOB044	TOB034	TOB034	TOB034	TOB034
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.15** JN	0.054 JUN	**0.48** JN	0.051 JUN	**0.17**	0.051 U	0.053 U	0.054 U
Aluminum	SB	33,000		5050				988		
Antimony	SB	N/A		0.62 U				0.33 U		
Arsenic	7.5 or SB	3 - 12	**8.8**	2.9	2.9	0.31 U	2.5	0.72 B	0.60 U	1.7
Barium	300 or SB	15 - 600	29.1	17.3 B	21.0 B	4.7 B	23.3	3.2 B	3.8 B	17.8 B
Beryllium	0.16 or SB	0 - 1.75		0.14 B				1.7 U		
Calcium	SB	130 – 35,000		308 B				87.7 B		
Cadmium	10	0.1 - 1	1.3 JE	8.7 JE	2.4 JE	0.41 JBE	3.7	0.053 B	0.039 U	2.3
Chromium	50	1.5 - 40	**50.3**	12.5	16.6	5.8	47.1 J*	2.6 J*	2.3 J*	37.0 J*
Cobalt	30 or SB	2.5 - 60		2.7 B				1.5 B		
Copper	25 or SB	1 - 50		10.4 JE				2.3 B		
Iron	2,000 or SB	2,000 – 550,000		**8820** JE				**2900**		
Lead	400	200 - 500	28.8	8.4	13.3	1.4	13.6	0.87	0.65	8.8
Magnesium	SB	100 – 5,000		570				158 B		
Manganese	SB	50 – 5,000		120				52.3		
Nickel	13 or SB	0.5 - 25		4.1 B				1.6 B		
Potassium	SB	8,500 – 43,000		215 JBE				86.6 B		
Selenium	2 or SB	0.1 - 3.9	0.64 J	0.61 J	0.59 J	0.48 JU	0.57 UN	0.54 UN	0.57 UN	0.58 UN
Silver	SB	N/A	3.4	2.2	2.0	0.14 U	3.9	0.36 U	0.38 U	2.3
Sodium	SB	6,000 - 8,000		18.6 B				13.7 B		
Thallium	SB	N/A		0.97 B				0.51 U		
Vanadium	150 or SB	1 - 300		9.8				2.2 B		
Zinc	20 or SB	9 - 50		**32.3** JE				4.2		
Chromium (VI)	50	1.5 - 40		3.3				1 U		
Cyanide	**	–		1.49 N				0.51 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring I-5				Boring I-6			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB044	TOB044	TOB044	TOB044	TOB038	TOB038	TOB038	TOB038
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.056 JUN	0.052 JUN	0.051 JUN	0.055 JUN	0.054 U	0.054 U	0.055 U	0.052 U
Aluminum	SB	33,000		2360				5520 J*E		
Antimony	SB	N/A		0.60 U				0.62 U		
Arsenic	7.5 or SB	3 - 12	2.5	0.70 B	0.30 U	1.1 B	2.5	1.8	2.7	0.76 B
Barium	300 or SB	15 - 600	27.8	6.5 B	3.6 B	20.8 B	20.0 JBE	13.6 JBE	20.9 JBE	6.4 JBE
Beryllium	0.16 or SB	0 - 1.75		0.11 JB				0.21 B		
Calcium	SB	130 – 35,000		109 B				116 B		
Cadmium	10	0.1 - 1	0.34 JBE	0.11 BE	0.067 JUE	0.37 JBE	0.25 B	0.10 B	0.19 B	0.068 U
Chromium	50	1.5 - 40	17.0	4.4	2.1	30.8	12.9 JN*	7.3 JN*	19.7 JN*	19.9 JN*
Cobalt	30 or SB	2.5 - 60		1.7 B				3.0 B		
Copper	25 or SB	1 - 50		3.1 JE				4.3		
Iron	2,000 or SB	2,000 – 550,000		**4370** JE				**7760** JE		
Lead	400	200 - 500	6.2	1.8	1.3	4.0	5.2 JN*	3.3 JN*	4.6 JN*	1.1 JN*
Magnesium	SB	100 – 5,000		369 B				895 JE		
Manganese	SB	50 – 5,000		84.4				80.7 JNE		
Nickel	13 or SB	0.5 - 25		1.9 B				4.8		
Potassium	SB	8,500 – 43,000		170 JBE				295 JBE		
Selenium	2 or SB	0.1 - 3.9	0.52 JU	0.48 JU	0.48 JU	0.51 JU	0.60 JN	0.70 JN	0.52 JUN	0.49 JUN
Silver	SB	N/A	0.15 U	0.14 U	0.14 U	0.15 U	0.15 U	0.14 U	0.30 B	0.14 U
Sodium	SB	6,000 - 8,000		25.0 B				48.8 B		
Thallium	SB	N/A		0.41 U				0.43 U		
Vanadium	150 or SB	1 - 300		5.1 B				11.2 JE		
Zinc	20 or SB	9 - 50		6.9 JE				11.1 J*		
Chromium (VI)	50	1.5 - 40		1 U				1.1 U		
Cyanide	**	–		0.61 JN				0.54 U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring I-7					Boring I-8			
			0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	8-10
			TOB008	TOB008	TOB008	TOB008	TOB008	TOB006	TOB006	TOB006	TOB006
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	**0.13**	**0.13**	**0.31**	0.061 U
Aluminum	SB	33,000				854 *		4320 EJ			
Antimony	SB	N/A				0.34 UJN		0.59 UNJ			
Arsenic	7.5 or SB	3 - 12	0.87 B	0.58 U	0.66 B	0.60 B	2.5	2.9	3.5	7.0	6.1
Barium	300 or SB	15 - 600	10 B	5.6 B	8.0 B	5.0 B	15.2 B	30.2 EJ	34.8 EJ	145 EJ	40.5 EJ
Beryllium	0.16 or SB	0 - 1.75				1.8 U		0.25 B			
Calcium	SB	130 – 35,000				595 J*		13700 *EJ			
Cadmium	10	0.1 - 1	0.24 BJN*	0.29 BJN*	0.21 BJN*	0.15 BJN*	0.89 JN*	1.4	1.3	5.0	1.9
Chromium	50	1.5 - 40	5.5 UJN*	4.7 UJN*	9.2 JN*	6.2 JN*	38.8 JN*	**58.5** *EJ	**56.9** *EJ	**81.0** *EJ	**95.0** *EJ
Cobalt	30 or SB	2.5 - 60				0.70 B		3.0 B			
Copper	25 or SB	1 - 50				2.1 B		17.0			
Iron	2,000 or SB	2,000 – 550,000				**4290** *		**7380** *EJ			
Lead	400	200 - 500	1.2	0.45	1.1	1.5	3.8	10.9 JN	25.8 JN	98.0 JN	60.9 JN
Magnesium	SB	100 – 5,000				168 B		1490 EJ			
Manganese	SB	50 – 5,000				35.2		96.4 *NEJ			
Nickel	13 or SB	0.5 - 25				1.4 B		10.5			
Potassium	SB	8,500 – 43,000				118 B		434 B			
Selenium	2 or SB	0.1 - 3.9	0.56 U	0.55 U	0.55 U	0.55 U	0.55 U	0.48 U	0.49 U	0.56 U	0.57 U
Silver	SB	N/A	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.47 B	0.42 B	1.8	0.97 B
Sodium	SB	6,000 - 8,000				26.9 B		352 B			
Thallium	SB	N/A				0.51 U		0.41 U			
Vanadium	150 or SB	1 - 300				2.7 B		44.5			
Zinc	20 or SB	9 - 50				11.2 *		**72.7** EJ			
Chromium (VI)	50	1.5 - 40				1 U		1.2			
Cyanide	**	--				0.51 UJ		0.51 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring I-9					Boring I-10				
			0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10
			TOB008	TOB008	TOB008	TOB008	TOB008	TOB008	TOB008	TOB008	TOB008	TOB008
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.053 U	0.052 U	0.052 U	0.052 U	0.052 U	0.051 U	0.091 B	0.054 U	0.094 B	**0.11**
Aluminum	SB	33,000				1100 *			2290 *	1900 *	6330 *	
Antimony	SB	N/A				0.34 UJN			0.35 UJN	0.35 UJN	0.37 UJN	
Arsenic	7.5 or SB	3 - 12	1.5	0.58 UJ	0.58 U	0.82 B	0.58 U	3.0	2.1	4.8	4.5	2.9
Barium	300 or SB	15 - 600	19.1 B	5.5 BJ	4.2 B	7.3 B	5.4 B	11.5 B	10.5 B	11.7 B	71.4	20.5 B
Beryllium	0.16 or SB	0 - 1.75				1.8 U			1.8 U	1.8 U	1.9 U	
Calcium	SB	130 – 35,000				1120 J*			24500 J*	10400 J*	21700 J*	
Cadmium	10	0.1 - 1	2.2 JN*	0.17 BN*	0.16 BJN*	0.28 BJN*	0.27 BJN*	2.1 N*	4.7 JN*	7.2 JN*	**564** JN*	**14.2** JN*
Chromium	50	1.5 - 40	44.4 JN*	4.8 UJN*	5.7 UJN*	20.1 JN*	15.8 JN*	25.4 N*	**68.7** JN*	**111** JN*	**2970** JN*	**277** JN*
Cobalt	30 or SB	2.5 - 60				1.1 B			1.4 B	1.4 B	4.4 B	
Copper	25 or SB	1 - 50				3.6			5.3	16.0	**60.8**	
Iron	2,000 or SB	2,000 – 550,000				**4900** *			**3810** J*	**3670** J*	**6490** J*	
Lead	400	200 - 500	5.2	0.86	1.3	0.75	0.77	3.7	4.2	8.6	106	11.8
Magnesium	SB	100 – 5,000				255 B			1060	420 B	987	
Manganese	SB	50 – 5,000				42.0			62.6	44.6	146	
Nickel	13 or SB	0.5 - 25				2.2 B			2.9 B	3.8 B	13.0	
Potassium	SB	8,500 – 43,000				153 B			228 B	205 B	341 B	
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.86	0.55 U	0.56 U	0.56 U	0.55 U	0.58 U	0.58 U	0.61 U	0.57 U
Silver	SB	N/A	0.38 U	0.86	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	1.6	1.5	0.38 U
Sodium	SB	6,000 - 8,000				54.8 B			57.7 B	78.0 B	207 B	
Thallium	SB	N/A				0.52 U			0.54 U	0.54 U	0.57 U	
Vanadium	150 or SB	1 - 300				2.6 B			4.7 B	5.1 B	9.6	
Zinc	20 or SB	9 - 50				16.6 *			**42.3** *	**46.7** *	**1270** *	
Chromium (VI)	50	1.5 - 40				1 U			1.1 U	9.3	5.5	
Cyanide	**	–				0.52 UJ			0.68	0.56	23.4	

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring I-11					Boring I-12				
			0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10
			TOB009	TOB009	TOB009	TOB009	TOB009	TOB009	TOB009	TOB009	TOB009	TOB009
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.053 U	0.052 U	0.052 U	0.053 U	0.051 U	0.051 U	0.052 U	0.052 U	0.053 U
Aluminum	SB	33,000				1450					1340	
Antimony	SB	N/A				0.60 UJN					0.60 UJN	
Arsenic	7.5 or SB	3 - 12	1.0 B	0.99 B	0.53 B	0.47 B	0.82 B	1.2	1.7	1.2	0.74 B	2.7
Barium	300 or SB	15 - 600	7.1 B	9.1 B	5.4 B	6.6 B	5.7 B	9.0 B	7.2 B	6.5 B	3.4 B	27.5
Beryllium	0.16 or SB	0 - 1.75				0.12 B					0.061 B	
Calcium	SB	130 – 35,000				1240 EJ					996 EJ	
Cadmium	10	0.1 - 1	0.068 U	0.069 U	0.068 U	0.068 U	0.069 U	0.067 U	0.17 B	0.068 U	0.068 U	0.069 U
Chromium	50	1.5 - 40	6.8	7.8	5.7	10.0	10.9	11.0	22.4	15.5	4.3	22.7
Cobalt	30 or SB	2.5 - 60				1.3 B					0.65 B	
Copper	25 or SB	1 - 50				3.0					1.9 B	
Iron	2,000 or SB	2,000 – 550,000				**4590**					**2780**	
Lead	400	200 - 500	1.5	1.6	0.93	1.4	1.3	2.7	2.8	2.2	0.87	5.8
Magnesium	SB	100 – 5,000				231 B					181 B	
Manganese	SB	50 – 5,000				51.4 JN					27.6 JN	
Nickel	13 or SB	0.5 - 25				1.8 B					2.0 B	
Potassium	SB	8,500 – 43,000				144 B					90.1 B	
Selenium	2 or SB	0.1 - 3.9	0.48 UJN	0.49 UJN	0.51 BJN	0.62 JN	0.68 JN	0.48 UJN	0.48 UJN	0.60 JN	0.49 UJN	0.49 UJN
Silver	SB	N/A	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Sodium	SB	6,000 - 8,000				38.9 B					20.6 B	
Thallium	SB	N/A				0.96 B					0.52 B	
Vanadium	150 or SB	1 - 300				3.0 B					2.6 B	
Zinc	20 or SB	9 - 50				10.7					7.2	
Chromium (VI)	50	1.5 - 40				1 U					1 U	
Cyanide	**	–				0.52 U					0.52 U	

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring J-1											
			0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50		58-60	
			TOB030	TOB030	TOB030	TOB030	TOB030	TOB030	TOB030	TOB030	TOB030		TOB030	
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.73**	**0.30**	**0.51**	**0.26**	**0.34**	**0.36**	0.053 U	0.057 B	0.086	B	0.061	U
Aluminum	SB	33,000									3500	J*		
Antimony	SB	N/A									0.72	U		
Arsenic	7.5 or SB	3 - 12	4.9	4.7	6.5	6.9	5.4	6.4	1.3	1.5	1.7		1.8	
Barium	300 or SB	15 - 600	53.1	62.6	167	65.0	49.7	131	4.8 B	3.3 B	29.9		4.8	B
Beryllium	0.16 or SB	0 - 1.75									0.25	B		
Calcium	SB	130 – 35,000									388	B		
Cadmium	10	0.1 - 1	**33.5**	**14.4**	**26.3**	**18.2**	**19.0**	**11.1**	1.1	0.74	0.22	B	0.080	U
Chromium	50	1.5 - 40	**1340**	**393**	**287**	**332**	**610**	**279**	13.2	24.3	28.6		6.1	
Cobalt	30 or SB	2.5 - 60									0.67	B		
Copper	25 or SB	1 - 50									32.0			
Iron	2,000 or SB	2,000 – 550,000									1430	J*		
Lead	400	200 - 500	63.4	52.2	61.1	48.0	44.1	419	0.86 J	1.8	16.8		3.0	
Magnesium	SB	100 – 5,000									95.9	B		
Manganese	SB	50 – 5,000									6.6			
Nickel	13 or SB	0.5 - 25									2.2	B		
Potassium	SB	8,500 – 43,000									609	B		
Selenium	2 or SB	0.1 - 3.9	0.68 JN	1.2 JN	0.84 JN	1.1 JN	0.63 JN	1.3 JN	0.49 UN	0.53 UN	0.58	UN	0.57	UN
Silver	SB	N/A	4.7	3.0	2.9	8.8	3.2	2.5	0.14 U	0.15 U	0.17	U	0.16	U
Sodium	SB	6,000 - 8,000									117	B		
Thallium	SB	N/A									0.60	JB		
Vanadium	150 or SB	1 - 300									8.2			
Zinc	20 or SB	9 - 50									8.6			
Chromium (VI)	50	1.5 - 40									12	U		
Cyanide	**	–									0.62	U		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring J-3							
			2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB030	TOB030	TOB030	TOB030	TOB030	TOB030	TOB030	TOB030
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.15**	0.051 U	0.051 U	0.052 U	0.051 U	0.052 U	0.054 U	0.058 U
Aluminum	SB	33,000								560 J*
Antimony	SB	N/A								0.38 U
Arsenic	7.5 or SB	3 - 12	0.70 B	3.3	1.4	1.3	0.81 B	5.1	0.71 B	0.90 B
Barium	300 or SB	15 - 600	4.9 B	26.4	12.4 B	5.5 B	4.8 B	7.6 B	2.2 B	4.5 B
Beryllium	0.16 or SB	0 - 1.75								2.0 JU
Calcium	SB	130 – 35,000								69.9 B
Cadmium	10	0.1 - 1	0.039 U	2.5	0.41 B	0.038 U	0.23 B	1.3	0.040 U	0.043 U
Chromium	50	1.5 - 40	5.6 J*	**76.5** J	23.5 J	15.0 J*	4.4 J*	19.2 J*	2.2 J*	1.2 J*
Cobalt	30 or SB	2.5 - 60								0.23 B
Copper	25 or SB	1 - 50								0.52 B
Iron	2,000 or SB	2,000 – 550,000								**2060**
Lead	400	200 - 500	1.8	16.1	4.1	0.32	0.60	0.12 U	1.1	2.4
Magnesium	SB	100 – 5,000								23.0 B
Manganese	SB	50 – 5,000								5.5 JN*
Nickel	13 or SB	0.5 - 25								0.23 U
Potassium	SB	8,500 – 43,000								161 JBE
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.55 U	0.55 U	0.55 U	0.55 U	0.56 U	0.58 U	0.63 U
Silver	SB	N/A	0.38 U	2.3	0.46 B	0.37 U	0.37 U	0.37 U	0.39 U	0.42 U
Sodium	SB	6,000 - 8,000								17.5 B
Thallium	SB	N/A								0.58 U
Vanadium	150 or SB	1 - 300								4.8 B
Zinc	20 or SB	9 - 50								1.4 B
Chromium (VI)	50	1.5 - 40								1.2 U
Cyanide	**	–								0.58 U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring J-5								
			0-2	2-4	4-6	8-10	18-20	28-30	38-40	48-50	58-60
			TOB014	TOB014	TOB014	TOB014	TOB014	TOB014	TOB014	TOB014	TOB014
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.057 B	0.052 U	0.051 U	0.051 U	0.056 U	0.055 U	0.056 U	0.058 U
Aluminum	SB	33,000				1200					
Antimony	SB	N/A				0.34 U					
Arsenic	7.5 or SB	3 - 12	1.9	2.1	2.7	1.1	0.86 B	0.66 B	1.3	1.5	0.69 B
Barium	300 or SB	15 - 600	14.1 B	39.9	37.5	7.8 B	5.0 B	2.8 B	7.3 B	13.3 B	1.6 B
Beryllium	0.16 or SB	0 - 1.75				1.8 JU					
Calcium	SB	130 – 35,000				248 B					
Cadmium	10	0.1 - 1	0.13 B	1.5	0.70	0.10 B	0.038 U	0.041 U	0.20 B	0.041 U	0.042 U
Chromium	50	1.5 - 40	11.0	32.3	32.0	10.4	3.2	2.5	4.2	4.9	1.3
Cobalt	30 or SB	2.5 - 60				0.98 B					
Copper	25 or SB	1 - 50				3.0					
Iron	2,000 or SB	2,000 – 550,000	2.6	11.8	8.5	**3520**	0.56	0.88	1.6	3.6	0.68
Lead	400	200 - 500				1.1					
Magnesium	SB	100 – 5,000				225 B					
Manganese	SB	50 – 5,000				50.4					
Nickel	13 or SB	0.5 - 25				1.6 B					
Potassium	SB	8,500 – 43,000				159 JBE					
Selenium	2 or SB	0.1 - 3.9	0.56 JUN	0.59 JUN	0.56 JUN	0.55 JUN	0.55 JUN	0.60 JUN	0.59 JUN	0.60 JUN	0.62 JUN
Silver	SB	N/A	0.37 U	1.5	0.54 B	0.37 U	0.37 U	0.40 U	0.39 U	0.40 U	0.41 U
Sodium	SB	6,000 - 8,000				23.3 B					
Thallium	SB	N/A				0.51 U					
Vanadium	150 or SB	1 - 300				2.9 B					
Zinc	20 or SB	9 - 50				8.3					
Chromium (VI)	50	1.5 - 40				1 U					
Cyanide	**	–				0.51 U					

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring J-7									
			0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60
			TOB011	TOB011	TOB011	TOB011	TOB011	TOB011	TOB011	TOB011	TOB011	TOB011
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.078 B	0.084 B	0.051 U	0.051 U	0.052 U	0.052 U	0.052 U	0.052 U	0.055 U	0.061 U
Aluminum	SB	33,000	4050									
Antimony	SB	N/A	0.62 JUN									
Arsenic	7.5 or SB	3 - 12	1.8 J	5.0	1.5 J	1.8 J	1.0 JB	3.5 J	1.3 J	3.3 J	2.8 J	1.2 JB
Barium	300 or SB	15 - 600	30.2	69.5	9.2 B	5.0 B	9.3 B	5.5 B	5.6 B	9.3 B	7.2 B	2.3 B
Beryllium	0.16 or SB	0 - 1.75	0.16 B									
Calcium	SB	130 – 35,000	3800 *									
Cadmium	10	0.1 - 1	0.070 U	3.0	0.067 U	0.067 U	0.068 U	0.068 U	0.068 U	0.068 U	0.073 U	0.080 U
Chromium	50	1.5 - 40	28.9 JN*	**82.8** JN*	4.5 JN*	2.8 JN*	10.5 JN*	3.2 JN*	3.7 JN*	31.7 JN*	3.0 JN*	1.1 JBN*
Cobalt	30 or SB	2.5 - 60	2.1 B									
Copper	25 or SB	1 - 50	5.8									
Iron	2,000 or SB	2,000 – 550,000	**7650** J*									
Lead	400	200 - 500	4.0 JN	117 JN	2.7 JN	1.4 JN	2.5 JN	1.6 JN	1.1 JN	3.9 JN	2.4 JN	0.87 JN
Magnesium	SB	100 – 5,000	1010 J*									
Manganese	SB	50 – 5,000	56.0									
Nickel	13 or SB	0.5 - 25	3.6 B									
Potassium	SB	8,500 – 43,000	780									
Selenium	2 or SB	0.1 - 3.9	0.50 U	0.49 U	0.48 U	0.48 U	0.48 U	0.49 U	0.49 U	0.49 U	0.52 U	0.57 U
Silver	SB	N/A	0.14 U	2.0	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U	0.16 U
Sodium	SB	6,000 - 8,000	124 B									
Thallium	SB	N/A	0.43 U									
Vanadium	150 or SB	1 - 300	10.9									
Zinc	20 or SB	9 - 50	17.0									
Chromium (VI)	50	1.5 - 40	1.9									
Cyanide	**	–	0.53 U									

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring J-9									
			0-2	2-4	4-6	6-8	8-10	18-20	28-30	38-40	48-50	58-60
			TOB010	TOB010	TOB010	TOB010	TOB010	TOB010	TOB010	TOB010	TOB010	TOB010
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.053 U	0.051 U	0.052 U	0.051 U	0.052 U	0.052 U	0.054 U	0.052 U	0.053 U	0.058 U
Aluminum	SB	33,000				2290						
Antimony	SB	N/A				0.59 UJN						
Arsenic	7.5 or SB	3 - 12	2.8	0.91 B	1.1	1.3	0.55 B	0.55 B	**13.2**	3.8	4.3	0.95 B
Barium	300 or SB	15 - 600	18.7 B	3.8 B	12.0 B	15.9 B	6.8 B	8.4 B	7.4 B	3.4 B	3.2 B	1.5 B
Beryllium	0.16 or SB	0 - 1.75				0.14 B						
Calcium	SB	130 – 35,000				5200						
Cadmium	10	0.1 - 1	0.39 B	1.6	0.61	0.30 B	0.79	2.0	0.071 U	0.24 B	0.19 B	0.077 U
Chromium	50	1.5 - 40	47.1 *	4.5 *	6.7 *	17.8 *	5.9 *	35.5 *	25.0 *	12.1 *	9.7 *	3.5 *
Cobalt	30 or SB	2.5 - 60				2.9 B						
Copper	25 or SB	1 - 50				4.8						
Iron	2,000 or SB	2,000 – 550,000				**7100**						
Lead	400	200 - 500	6.4	1.3	2.8	2.6	1.4	3.1	6.4	2.4	1.7	0.83
Magnesium	SB	100 – 5,000				1830						
Manganese	SB	50 – 5,000				277 *						
Nickel	13 or SB	0.5 - 25				4.2						
Potassium	SB	8,500 – 43,000				210 BE						
Selenium	2 or SB	0.1 - 3.9	0.50 UN	0.48 UN	0.49 UN	0.48 UN	0.49 UN	0.49 UN	1.1 JN	0.49 UN	0.49 UN	0.55 UN
Silver	SB	N/A	0.86 B	0.14 U	0.14 U	0.14 U	0.14 U	0.29 B	0.15 U	0.14 U	0.14 U	0.16 U
Sodium	SB	6,000 - 8,000				87.4 B						
Thallium	SB	N/A				0.47 B						
Vanadium	150 or SB	1 - 300				5.7						
Zinc	20 or SB	9 - 50				14.3						
Chromium (VI)	50	1.5 - 40				1 U						
Cyanide	**	–				0.51 U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring J-2				Boring J-4			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB042	TOB042	TOB042	TOB042	TOB034	TOB034	TOB034	TOB034
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	**0.23**	**0.47**	0.092 B	**0.11**	**0.11**	0.051 U	**0.10** B	0.052 U
Aluminum	SB	33,000				4560	6550			
Antimony	SB	N/A				0.37 U	1.3 B			
Arsenic	7.5 or SB	3 - 12	6.9	**12.3**	3.8	3.2	5.8	0.72 B	4.0	4.0
Barium	300 or SB	15 - 600	31.6	57.1	28.2	22.4 B	66.2	3.3 B	41.2	14.0 B
Beryllium	0.16 or SB	0 - 1.75				1.9 JU	1.8 U			
Calcium	SB	130 – 35,000				779	7910			
Cadmium	10	0.1 - 1	5.2 RN*	**35.7** RN*	5.3 RN*	5.2 RN*	3.4	0.037 U	4.4	1.3
Chromium	50	1.5 - 40	173 J*	**1290** J*	**54.9** J*	49.6 J*	**78.5** J*	2.8 J*	49.5 J*	46.5 J*
Cobalt	30 or SB	2.5 - 60				2.2 B	4.1 B			
Copper	25 or SB	1 - 50				16.2 JE	46.8			
Iron	2,000 or SB	2,000 – 550,000				**6490**	**25400**			
Lead	400	200 - 500	29.2	524	16.7	15.2	56.3	0.58	248	18.2
Magnesium	SB	100 – 5,000				583	1480			
Manganese	SB	50 – 5,000				91.6 JN*	169			
Nickel	13 or SB	0.5 - 25				7.5	**13.7**			
Potassium	SB	8,500 – 43,000				252 JBE	351 B			
Selenium	2 or SB	0.1 - 3.9	0.60 U	0.63 U	0.59 U	0.60 U	0.58 UN	0.55 UN	0.58 UN	0.56 UN
Silver	SB	N/A	3.9	6.6	5.3	5.1	3.8	0.36 U	2.5	0.50 B
Sodium	SB	6,000 - 8,000				36.8 B	104 B			
Thallium	SB	N/A				0.56 U	0.98 B			
Vanadium	150 or SB	1 - 300				8.3	25.3			
Zinc	20 or SB	9 - 50				**45.3** JN*	**218**			
Chromium (VI)	50	1.5 - 40				1.1 U	1.1 U			
Cyanide	**	–				0.7 E	0.9 JE			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring J-6				Boring J-8			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB037	TOB037	TOB037	TOB037	TOB008	TOB008	TOB008	TOB008
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	**0.12** B	0.074 U	0.054 U	0.054 B	0.080 B	0.055 U	0.052 U
Aluminum	SB	33,000		7150			3820 *			
Antimony	SB	N/A		2.1 B			0.34 UJN			
Arsenic	7.5 or SB	3 - 12	0.80 B	6.7	**14.0**	3.9	2.1	2.9	2.9	0.98 B
Barium	300 or SB	15 - 600	6.8 B	125	59.6	48.3	31.0	104	62.7	7.5 B
Beryllium	0.16 or SB	0 - 1.75		2.1 JU			1.8 U			
Calcium	SB	130 – 35,000		5620			9850 J*			
Cadmium	10	0.1 - 1	0.059 B	1.5	6.4	5.1	3.1 JN*	3.9 JN*	0.71 JN*	0.34 BN*
Chromium	50	1.5 - 40	6.9 JN	**54.9** JN	36.7 JN	36.6 JN	**51.4** JN*	47.4 JN*	19.6 JN*	8.4 N*
Cobalt	30 or SB	2.5 - 60		6.2 B			3.3 B			
Copper	25 or SB	1 - 50		**54.3**			**37.2**			
Iron	2,000 or SB	2,000 – 550,000		**15400**			**7780** *			
Lead	400	200 - 500	1.2 JN	54.4 JN	5.9 JN	20.4 JN	30.9	109	10.5	1.2
Magnesium	SB	100 – 5,000		895			1460			
Manganese	SB	50 – 5,000		137 JN			88.5			
Nickel	13 or SB	0.5 - 25		16.1			5.9			
Potassium	SB	8,500 – 43,000		299 B			245 B			
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.67 U	0.79 U	0.58 U	0.56 U	0.59 U	0.59 U	0.56 U
Silver	SB	N/A	0.37 U	1.3	0.53 U	0.59 B	2.0	2.4	0.39 U	0.37 U
Sodium	SB	6,000 - 8,000		122 B			84.8 B			
Thallium	SB	N/A		0.62 U			0.52 U			
Vanadium	150 or SB	1 - 300		22.5			10			
Zinc	20 or SB	9 - 50		**272**			**101** *			
Chromium (VI)	50	1.5 - 40		1.2 U			1.1 U			
Cyanide	**	–		0.62 U			0.59 J			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring J-10							
			0-2		2-4		4-6		8-10	
			TOBY006		TOBY006		TOBY006		TOBY006	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.052	U	0.052	U	0.052	U	0.052	U
Aluminum	SB	33,000	2610	EJ						
Antimony	SB	N/A	0.60	UNJ						
Arsenic	7.5 or SB	3 - 12	1.6		0.99	B	2.4		1.2	
Barium	300 or SB	15 - 600	8.7	BEJ	5.5	BEJ	5.5	BEJ	5.8	BEJ
Beryllium	0.16 or SB	0 - 1.75	0.16	B						
Calcium	SB	130 – 35,000	1830	*EJ						
Cadmium	10	0.1 - 1	0.068	U	0.068	U	0.068	U	0.68	
Chromium	50	1.5 - 40	6.5	*EJ	4.2	*EJ	17.9	*EJ	22.4	*EJ
Cobalt	30 or SB	2.5 - 60	1.8	B						
Copper	25 or SB	1 - 50	3.1							
Iron	2,000 or SB	2,000 – 550,000	**5340**	*EJ						
Lead	400	200 - 500	2.3	JN	1.3	JN	1.4	JN	2.7	JN
Magnesium	SB	100 – 5,000	450	BEJ						
Manganese	SB	50 – 5,000	86.1	N*EJ						
Nickel	13 or SB	0.5 - 25	2.4	B						
Potassium	SB	8,500 – 43,000	204	B						
Selenium	2 or SB	0.1 - 3.9	0.49	U	0.49	U	0.49	U	0.49	U
Silver	SB	N/A	0.14	U	0.14	U	0.14	U	0.44	B
Sodium	SB	6,000 - 8,000	34.0	B						
Thallium	SB	N/A	0.42	U						
Vanadium	150 or SB	1 - 300	5.6							
Zinc	20 or SB	9 - 50	10.3	EJ						
Chromium (VI)	50	1.5 - 40	1	U						
Cyanide	**	–	0.52	U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring K-4										Boring K-5									
			0-2		2-4		4-6		6-8		8-10		0-2		2-4		4-6		6-8		8-10	
			TOB004		TOB004		TOB004		TOB004		TOB004		TOB004		TOB004		TOB004		TOB004		TOB004	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.15**		**0.70**		0.058	U	0.059	U	0.052	U	0.053	U	0.054	U	0.052	U	0.053	U	0.051	U
Aluminum	SB	33,000									952						3380				1290	
Antimony	SB	N/A									0.34	UJN					0.34	UJN			0.34	UJN
Arsenic	7.5 or SB	3 - 12	4.0		2.5		3.1		2.4		0.59	U	0.98	B	0.86	B	0.90	B	0.79	B	9.5	
Barium	300 or SB	15 - 600	538		16.2	B	32.0		49.0		5.5	B	8.6	B	12.2	B	23.3		14.9	B	7.5	B
Beryllium	0.16 or SB	0 - 1.75									1.8	U					1.8	U			1.8	U
Calcium	SB	130 – 35,000									213	B*					13500	*			1860	*
Cadmium	10	0.1 - 1	2.7		0.33	B	0.64		0.46	B	0.12	B	0.33	B	0.21	B	0.36	B	0.35	B	0.25	B
Chromium	50	1.5 - 40	41.1	JN	8.7	JN	14.2	JN	24.4	JN	3.1	JN	10.1	JN	7.9	JN	10.3	JN	17.8	JN	8.5	JN
Cobalt	30 or SB	2.5 - 60									0.44	B					2.1	B			1.1	B
Copper	25 or SB	1 - 50									1.8	B					6.0				3.1	
Iron	2,000 or SB	2,000 – 550,000									**2800**						**5550**				**5710**	
Lead	400	200 - 500	55.2	JN*	6.1	JN*	4.3	JN*	9.2	JN*	0.65	JN*	1.9	JN*	1.7	JN*	2.0	JN*	1.4	JN*	1.2	JN*
Magnesium	SB	100 – 5,000									174	B					3190				491	B
Manganese	SB	50 – 5,000									18.8						79.5				50.4	
Nickel	13 or SB	0.5 - 25									0.95	B					3.3	B			2.8	B
Potassium	SB	8,500 – 43,000									120	BEJ					264	BEJ			161	BEJ
Selenium	2 or SB	0.1 - 3.9	0.57	U	0.58	U	0.62	U	0.63	U	0.56	U	0.57	U	0.58	U	0.56	U	0.57	U	0.55	U
Silver	SB	N/A	2.1		0.39	U	0.41	U	0.42	U	0.37	U	0.38	U	0.39	U	0.37	U	0.38	U	0.37	U
Sodium	SB	6,000 - 8,000									20.6	B					113	B			34.4	B
Thallium	SB	N/A									0.52	U					0.52	U			0.51	U
Vanadium	150 or SB	1 - 300									1.9	B					12.1				4.2	B
Zinc	20 or SB	9 - 50									8.9	EJ					14.2	EJ			8.4	EJ
Chromium (VI)	50	1.5 - 40									1	U					1	U			1	U
Cyanide	**	–									0.52	U					0.52	U			0.51	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring K-6					Boring K-7				
			0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10
			TOB004	TOB004	TOB004	TOB004	TOB004	TOB007	TOB007	TOB007	TOB007	TOB007
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.051 U	0.053 U	0.054 U	0.054 U	0.052 U	0.053 U	0.053 U	0.052 U	0.052 U
Aluminum	SB	33,000		3570		1540	1610				3280	
Antimony	SB	N/A		0.34 UJN		0.36 UJN	0.35 UJN				0.60 UJN	
Arsenic	7.5 or SB	3 - 12	3.5	4.0	2.1	0.92 B	0.98 B	2.2	5.6	2.2	2.3	1.3
Barium	300 or SB	15 - 600	55.0	21.0	40.1	11.2 B	11.1 B	27.6	57.7	25.7	20.5 B	12.5 B
Beryllium	0.16 or SB	0 - 1.75		1.7 U		1.9 U	1.8 U				0.20 B	
Calcium	SB	130 – 35,000		20500 *		4760 *	5250 *				21200	
Cadmium	10	0.1 - 1	1.0	0.48 B	0.48 B	0.44 B	0.44 B	0.36 B	0.63	0.39 B	0.24 B	0.068 U
Chromium	50	1.5 - 40	20.4 JN	20.9 JN	19.7 JN	10 JN	17.8 JN	20.1 JN*	41.9 JN*	19.8 JN*	27.0 JN*	18.6 JN*
Cobalt	30 or SB	2.5 - 60		1.8 B		1.5 B	1.9 B				1.7 B	
Copper	25 or SB	1 - 50		8.1		5.7	10.2				7.8	
Iron	2,000 or SB	2,000 – 550,000		**5700**		**5950**	**7320**				**7570**	
Lead	400	200 - 500	12.9 JN*	4.1 JN*	19.5 JN*	5.6 JN*	3.1 JN*	4.0 JN*	16.3 JN*	7.2 JN*	5.4 JN*	2.9 JN*
Magnesium	SB	100 – 5,000		3920		889	1040				3920 *	
Manganese	SB	50 – 5,000		76.7		183	145				92.5 JN	
Nickel	13 or SB	0.5 - 25		4.2		3.1 B	5.0				5.2	
Potassium	SB	8,500 – 43,000		324 BEJ		165 BEJ	174 BEJ				325 B	
Selenium	2 or SB	0.1 - 3.9	0.56 U	0.55 U	0.57 U	0.58 U	0.58 U	0.49 U	2.3	0.50 U	0.49 U	0.49 U
Silver	SB	N/A	0.37 U	0.58 B	0.38 U	0.39 U	0.38 U	0.45 B	0.24 B	0.25 B	0.26 B	0.14 U
Sodium	SB	6,000 - 8,000		120 B		46.9 B	48.6 B				129 B	
Thallium	SB	N/A		0.51 U		0.54 U	0.54 U				0.72 B	
Vanadium	150 or SB	1 - 300		11.7		6.8	4.3 B				7.0	
Zinc	20 or SB	9 - 50		**24.3** EJ		**255** EJ	**129** EJ				15.9 EJ	
Chromium (VI)	50	1.5 - 40		1 U		1.1 U	1.1				1 U	
Cyanide	**	–		0.51 U		0.54 U	0.54 U				0.52 U	

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring K-8											
			0-2		2-4		4-6		6-8		8-10		18-20	
			TOB007		TOB007		TOB007		TOB007		TOB007		TOB007	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	**0.11**	B	0.057	B	0.054	U	0.055	U	0.057	U	0.053	U
Aluminum	SB	33,000											1780	
Antimony	SB	N/A											0.61	UJN
Arsenic	7.5 or SB	3 - 12	6.4		3.8		3.1		3.9		**20.5**		2.1	
Barium	300 or SB	15 - 600	179		37.0		26.8		28.9		57.8		8.8	B
Beryllium	0.16 or SB	0 - 1.75											0.11	B
Calcium	SB	130 – 35,000											1290	
Cadmium	10	0.1 - 1	**24.2**		0.74		0.46	B	0.26	B	0.76		0.070	U
Chromium	50	1.5 - 40	30.7	JN*	48.0	JN*	22.0	JN*	28.2	N*	**3400**	JN*	10.6	JN*
Cobalt	30 or SB	2.5 - 60											1.4	B
Copper	25 or SB	1 - 50											2.8	
Iron	2,000 or SB	2,000 – 550,000											**4320**	
Lead	400	200 - 500	65.7	JN*	16.6	JN*	11.1	JN*	18.6	N*	11.1	JN*	3.2	JN*
Magnesium	SB	100 – 5,000											240	B*
Manganese	SB	50 – 5,000											63.7	JN
Nickel	13 or SB	0.5 - 25											2.2	B
Potassium	SB	8,500 – 43,000											102	B
Selenium	2 or SB	0.1 - 3.9	0.82		0.49	U	0.51	U	0.51	U	**17.0**		0.50	U
Silver	SB	N/A	0.31	B	1.0	B	0.46	B	0.16	B	0.27	B	0.14	U
Sodium	SB	6,000 - 8,000											35.3	B
Thallium	SB	N/A											0.43	U
Vanadium	150 or SB	1 - 300											6.7	
Zinc	20 or SB	9 - 50											12.4	EJ
Chromium (VI)	50	1.5 - 40											1.1	U
Cyanide	**	–											0.53	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring K-9									
			0-2		2-4		4-6		6-8		8-10	
			TOB007		TOB007		TOB007		TOB007		TOB007	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.053	U	**0.36**		0.054	U	0.054	U	0.052	U
Aluminum	SB	33,000							1350			
Antimony	SB	N/A							0.62	UJN		
Arsenic	7.5 or SB	3 - 12	1.6		4.3		0.86	B	1.9		1.1	
Barium	300 or SB	15 - 600	13.2	B	47.0		12.9	B	12.9	B	13.2	B
Beryllium	0.16 or SB	0 - 1.75							0.12	B		
Calcium	SB	130 – 35,000							18200			
Cadmium	10	0.1 - 1	0.54		2.6		4.5		5.5		4.6	
Chromium	50	1.5 - 40	26.4	JN*	**59.6**	JN*	13.5	JN*	13.4	JN*	22.7	JN*
Cobalt	30 or SB	2.5 - 60							0.75	B		
Copper	25 or SB	1 - 50							9.8			
Iron	2,000 or SB	2,000 – 550,000							**4670**			
Lead	400	200 - 500	6.8	JN*	42.6	JN*	4.4	JN*	5.2	JN*	4.1	JN*
Magnesium	SB	100 – 5,000							**8730**	*		
Manganese	SB	50 – 5,000							58.2	JN		
Nickel	13 or SB	0.5 - 25							2.1	B		
Potassium	SB	8,500 – 43,000							148	B		
Selenium	2 or SB	0.1 - 3.9	0.49	U	0.54	U	0.51	U	0.50	U	0.49	U
Silver	SB	N/A	0.95	B	0.53	B	0.21	B	0.21	B	0.29	B
Sodium	SB	6,000 - 8,000							63.4	B		
Thallium	SB	N/A							0.43	U		
Vanadium	150 or SB	1 - 300							3.5	B		
Zinc	20 or SB	9 - 50							**28.0**	JE		
Chromium (VI)	50	1.5 - 40							1.1	U		
Cyanide	**	--							4.3	E		

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring L-5															
			0-2		2-4		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB045		TOB045		TOB045		TOB045		TOB045		TOB045		TOB045		TOB045	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.055	UN	0.052	UN	0.053	UN	0.053	UN	0.052	UN	0.052	UN	0.056	UN	0.062	UN
Aluminum	SB	33,000							2730	J*								
Antimony	SB	N/A							0.61	U								
Arsenic	7.5 or SB	3 - 12	0.51	B	0.40	B	2.1		2.2		1.3		0.89	B	**7.8**		0.81	B
Barium	300 or SB	15 - 600	10.8	B	12.6	B	13.2	B	14.2	B	5.9	B	4.8	B	10.7	B	2.9	B
Beryllium	0.16 or SB	0 - 1.75							0.17	B								
Calcium	SB	130 – 35,000							2090									
Cadmium	10	0.1 - 1	0.22	B	0.068	U	0.11	B	0.20	B	0.16	B	0.097	B	0.11	B	0.081	U
Chromium	50	1.5 - 40	9.5	J*	3.2	J*	22.3	J*	13.6	J*	8.2	J*	6.0	J*	**66.2**	J*	1.3	J*
Cobalt	30 or SB	2.5 - 60							1.8	B								
Copper	25 or SB	1 - 50							3.7									
Iron	2,000 or SB	2,000 – 550,000							**5570**									
Lead	400	200 - 500	4.0	JN	1.7	JN	3.5	JN	2.7	JN	1.6	JN	1.1	JN	8.5	JN	1.1	JN
Magnesium	SB	100 – 5,000							740									
Manganese	SB	50 – 5,000							68.8									
Nickel	13 or SB	0.5 - 25							3.0	B								
Potassium	SB	8,500 – 43,000							222	B								
Selenium	2 or SB	0.1 - 3.9	0.51	JU	0.49	JU	0.49	JU	0.49	JU	0.49	JU	0.49	JU	1.9		0.58	JU
Silver	SB	N/A	0.53	B	0.14	U	0.27	B	0.14	U	0.14	U	0.14	U	0.15	U	0.17	U
Sodium	SB	6,000 - 8,000							49.5	B								
Thallium	SB	N/A							0.42	U								
Vanadium	150 or SB	1 - 300							6.2									
Zinc	20 or SB	9 - 50							11.1									
Chromium (VI)	50	1.5 - 40							1.1	U								
Cyanide	**	–							0.53	U								

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring L-7													
			0-2		2-4		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB006		TOB006		TOB006		TOB006		TOB006		TOB006		TOB006		TOB006	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.054	U	0.053	U	0.051	U	0.053	U	0.052	U	0.055	U	0.053	U	0.062	U
Aluminum	SB	33,000	3450	EJ														
Antimony	SB	N/A	0.62	UNJ														
Arsenic	7.5 or SB	3 - 12	2.3		1.4		0.57	B	1.7		3.1		2.1		1.0	B	1.7	
Barium	300 or SB	15 - 600	18.7	BEJ	13.0	BEJ	6.1	BEJ	11.7	BEJ	16.1	BEJ	3.1	BEJ	2.9	BEJ	5.9	BEJ
Beryllium	0.16 or SB	0 - 1.75	0.23	B														
Calcium	SB	130 – 35,000	4260	*EJ														
Cadmium	10	0.1 - 1	0.27	B	0.070	U	0.067	U	0.069	U	0.068	U	0.071	U	0.070	U	0.081	U
Chromium	50	1.5 - 40	14.9	*EJ	21.4	*EJ	6.6	*EJ	5.3	*EJ	9.8	*EJ	2.6	*EJ	0.70	B*EJ	3.9	*EJ
Cobalt	30 or SB	2.5 - 60	3.1	B														
Copper	25 or SB	1 - 50	5.7															
Iron	2,000 or SB	2,000 – 550,000	**6190**	*EJ														
Lead	400	200 - 500	4.7	JN	5.6	JN	0.76	JN	1.8	JN	2.3	JN	1.5	JN	0.78	JN	5.3	JN
Magnesium	SB	100 – 5,000	624	EJ														
Manganese	SB	50 – 5,000	110	N*EJ														
Nickel	13 or SB	0.5 - 25	3.8	B														
Potassium	SB	8,500 – 43,000	171	B														
Selenium	2 or SB	0.1 - 3.9	0.50	U	0.50	U	0.48	U	0.50	U	0.48	U	0.51	U	0.50	U	0.58	U
Silver	SB	N/A	0.27	B	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U
Sodium	SB	6,000 - 8,000	48.7	B														
Thallium	SB	N/A	0.56	B														
Vanadium	150 or SB	1 - 300	8.3															
Zinc	20 or SB	9 - 50	16.6	EJ														
Chromium (VI)	50	1.5 - 40	1.1	U														
Cyanide	**	–	0.54	U														

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring L-9							
			0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60
			TOB005	TOB005	TOB005	TOB005	TOB005	TOB005	TOB005	TOB005
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.062 B	0.060 U	0.052 U	0.052 U	0.051 U	0.053 U	0.052 U	0.058 U
Aluminum	SB	33,000	4180							
Antimony	SB	N/A	0.35 UJN							
Arsenic	7.5 or SB	3 - 12	1.2	3.8	0.58 U	0.64 B	**14.9**	0.60 U	0.58 B	0.66 U
Barium	300 or SB	15 - 600	16.9 B	51.8	4.0 B	4.3 B	6.9 B	3.3 B	1.0 B	1.2 B
Beryllium	0.16 or SB	0 - 1.75	1.8 U							
Calcium	SB	130 – 35,000	4200							
Cadmium	10	0.1 - 1	0.61	0.81	0.24 B	0.10 B	1.6	0.075 B	0.038 U	0.043 U
Chromium	50	1.5 - 40	20.1	19.9	4.1	3.1	**83.0**	3.1	0.62 B	1.3
Cobalt	30 or SB	2.5 - 60	2.2 B							
Copper	25 or SB	1 - 50	7.8							
Iron	2,000 or SB	2,000 – 550,000	**5440**							
Lead	400	200 - 500	3.6	6.8	0.59	1.0	0.12 U	0.97	0.38	1.0
Magnesium	SB	100 – 5,000	833							
Manganese	SB	50 – 5,000	62.4							
Nickel	13 or SB	0.5 - 25	4.6							
Potassium	SB	8,500 – 43,000	291 BEJ							
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.65 U	0.55 U	0.56 U	0.55 U	0.57 U	0.55 U	0.63 U
Silver	SB	N/A	0.50 B	0.43 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.42 U
Sodium	SB	6,000 - 8,000	96.8 B							
Thallium	SB	N/A	0.53 U							
Vanadium	150 or SB	1 - 300	7.5							
Zinc	20 or SB	9 - 50	**33.9** EJ							
Chromium (VI)	50	1.5 - 40	1.5							
Cyanide	**	–	0.53 U							

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring L-4								Boring L-6									
			0-2		2-4		4-6		8-10		0-2		2-4		4-6		8-10		10-12	
			TOB003		TOB003		TOB003		TOB003		TOB003		TOB003		TOB003		TOB003		TOB003	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.25	U	0.054	U	0.057	U	0.052	U	0.052	U	0.052	U	0.054	U	0.052	U	0.052	U
Aluminum	SB	33,000	6190								2310									
Antimony	SB	N/A	0.33	U							0.34	U								
Arsenic	7.5 or SB	3 - 12	1.6		2.1		2.4		2.4		1.3	JN*	1.4	JN*	0.61	UJN*	0.86	BJN*	0.59	JN*
Barium	300 or SB	15 - 600	14.9	B	11.0	B	13.6	B	4.4	B	6.9	B	6.9	B	3.9	B	9.7	B	6.2	B
Beryllium	0.16 or SB	0 - 1.75	1.7	U							1.8	U								
Calcium	SB	130 – 35,000	3530								1520									
Cadmium	10	0.1 - 1	0.35	B	0.28	B	0.37	B	0.98	B	0.20	B	0.30	B	0.072	B	0.33	B	0.10	B
Chromium	50	1.5 - 40	21.3		10.3		10.6		2.8	B	9.2		11.1		5.8		53.7		6.3	
Cobalt	30 or SB	2.5 - 60	2.7	B							1.1	B								
Copper	25 or SB	1 - 50	5.6	*							2.0	JBN								
Iron	2,000 or SB	2,000 – 550,000	**8780**								**4530**	*								
Lead	400	200 - 500	3.2		2.7		2.4		1.5		1.1		1.5		0.39		0.66		0.51	
Magnesium	SB	100 – 5,000	1190	B							274	B								
Manganese	SB	50 – 5,000	77.1	JN*							46.1									
Nickel	13 or SB	0.5 - 25	5.7								1.7	B								
Potassium	SB	8,500 – 43,000	391	B							122	BEJ								
Selenium	2 or SB	0.1 - 3.9	0.54	U	0.58	U	0.61	U	0.55	U	0.56	U	0.56	U	0.58	U	0.56	U	0.56	U
Silver	SB	N/A	0.36	U	0.38	U	0.40	U	0.37	U	0.37	U	0.37	U	0.38	U	0.37	U	0.37	U
Sodium	SB	6,000 - 8,000	85.2	B							33.0	B								
Thallium	SB	N/A	0.51	U							0.52	U								
Vanadium	150 or SB	1 - 300	9.9								4.1	B								
Zinc	20 or SB	9 - 50	15.4								6.7									
Chromium (VI)	50	1.5 - 40	1	U							1	U								
Cyanide	**	--	0.51	U							0.52	UJ								

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring L-8							
			0-2		2-4		4-6		8-10	
			TOB003		TOB003		TOB003		TOB003	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.050	U	0.052	U	0.052	U	0.052	U
Aluminum	SB	33,000	2960							
Antimony	SB	N/A	0.33	U						
Arsenic	7.5 or SB	3 - 12	1.9	JN*	0.59	UJN*	1.4	JN*	1.0	BJN*
Barium	300 or SB	15 - 600	9.9	B	6.4	B	8.7	B	12.6	B
Beryllium	0.16 or SB	0 - 1.75	1.7	U						
Calcium	SB	130 – 35,000	1770							
Cadmium	10	0.1 - 1	0.64		0.084	B	0.76		0.43	B
Chromium	50	1.5 - 40	21.1		6.3		**465**		48.7	
Cobalt	30 or SB	2.5 - 60	2.1	B						
Copper	25 or SB	1 - 50	5.9	JN						
Iron	2,000 or SB	2,000 – 550,000	**7100**	*						
Lead	400	200 - 500	2.4		0.89		0.12	U	1.3	
Magnesium	SB	100 – 5,000	617							
Manganese	SB	50 – 5,000	57.9							
Nickel	13 or SB	0.5 - 25	4.0							
Potassium	SB	8,500 – 43,000	244	BEJ						
Selenium	2 or SB	0.1 - 3.9	0.54	U	0.56	U	0.56	U	0.56	U
Silver	SB	N/A	0.36	U	0.37	U	0.37	U	0.37	U
Sodium	SB	6,000 - 8,000	44.3	B						
Thallium	SB	N/A	0.50	U						
Vanadium	150 or SB	1 - 300	6.6							
Zinc	20 or SB	9 - 50	**20.7**							
Chromium (VI)	50	1.5 - 40	1	U						
Cyanide	**	–	0.50	UJ						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring M-4				Boring M-5			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB002	TOB002	TOB002	TOB002	TOB002	TOB002	TOB002	TOB002
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 U	0.054 U	0.051 U	0.053 U	0.081 B	0.051 U	0.051 U	0.053 U
Aluminum	SB	33,000	2980				4660			
Antimony	SB	N/A	0.34 U				0.34 U			
Arsenic	7.5 or SB	3 - 12	1.2	0.61 U	0.69 B	1.9	3.6	0.58 U	1.1	0.87 B
Barium	300 or SB	15 - 600	14.9 B	6.6 B	11.9 B	8.7 B	23.2	13.7 B	11.6 B	7.0 B
Beryllium	0.16 or SB	0 - 1.75	1.7 U				1.8 U			
Calcium	SB	130 – 35,000	7010				596			
Cadmium	10	0.1 - 1	0.57	0.95	0.23 B	0.20 B	4.4	0.11 B	0.76	0.22 B
Chromium	50	1.5 - 40	15.7	3.2	3.8	7.2	**50.9**	1.0	1.8	9.1
Cobalt	30 or SB	2.5 - 60	1.3 B				1.9 B			
Copper	25 or SB	1 - 50	4.5 *				21.7 *			
Iron	2,000 or SB	2,000 – 550,000	**3800**				**6460**			
Lead	400	200 - 500	3.2	0.85	1.4	0.61	17.9	2.5	0.12 U	0.78
Magnesium	SB	100 – 5,000	638				506 B			
Manganese	SB	50 – 5,000	58.0 JN*				70.4 JN*			
Nickel	13 or SB	0.5 - 25	2.4 B				4.7			
Potassium	SB	8,500 – 43,000	279 B				269 B			
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.58 U	0.55 U	0.57 U	0.56 U	0.55 U	0.55 U	0.56 U
Silver	SB	N/A	0.49 B	0.38 U	0.37 U	0.38 U	4.5	0.37 U	0.37 U	0.38 U
Sodium	SB	6,000 - 8,000	106 B				43.9 B			
Thallium	SB	N/A	0.51 U				0.52 U			
Vanadium	150 or SB	1 - 300	6.4				10.7			
Zinc	20 or SB	9 - 50	14.1				**51.0**			
Chromium (VI)	50	1.5 - 40	1.7				3.0			
Cyanide	**	–	0.51 U				0.52 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring M-6				Boring M-7			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB002	TOB002	TOB002	TOB002	TOB001	TOB001	TOB001	TOB001
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.053 U	0.058 U	0.052 U	0.052 U	0.052 U	0.057 U	0.051 U	**0.10** B
Aluminum	SB	33,000	1990				3860			
Antimony	SB	N/A	0.35 U				0.34 U			
Arsenic	7.5 or SB	3 - 12	0.90 B	0.97 B	0.59 U	0.60 B	1.7 *	1.9 *	0.57 U*	0.60 U*
Barium	300 or SB	15 - 600	6.0 B	18.0 B	4.3 B	4.2 B	11.8 B	26.1	7.0 B	8.5 B
Beryllium	0.16 or SB	0 - 1.75	1.8 U				1.8 U			
Calcium	SB	130 – 35,000	863				725			
Cadmium	10	0.1 - 1	0.14 B	0.30 B	0.13 B	0.16 B	0.68	0.24 B	0.12 B	0.22 B
Chromium	50	1.5 - 40	12.7	10.4	6.3	3.7	27.3 *	7.6 *	6.2 *	26.8 *
Cobalt	30 or SB	2.5 - 60	0.83 B				2.0 B			
Copper	25 or SB	1 - 50	2.1 B*				8.2			
Iron	2,000 or SB	2,000 – 550,000	**3130**				**6120** *			
Lead	400	200 - 500	1.1	4.0	0.92	0.54	5.2	3.0	0.62	0.37
Magnesium	SB	100 – 5,000	253 B				557			
Manganese	SB	50 – 5,000	27.6 JN*				64.5			
Nickel	13 or SB	0.5 - 25	2.0 B				3.3 B			
Potassium	SB	8,500 – 43,000	151 B				214 BEJ			
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.62 U	0.56 U	0.56 U	0.56 U	0.61 U	0.55 U	0.57 U
Silver	SB	N/A	0.38 U	0.41 U	0.37 U	0.37 U	0.76 B	0.41 U	0.36 U	0.38 U
Sodium	SB	6,000 - 8,000	26.4 B				48.5 B			
Thallium	SB	N/A	0.53 U				0.52 U			
Vanadium	150 or SB	1 - 300	4.4 B				7.6			
Zinc	20 or SB	9 - 50	5.7				**21.5**			
Chromium (VI)	50	1.5 - 40	1.1 U				2.4			
Cyanide	**	--	0.53 U				0.52 U			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring M-8				Boring M-9			
			0-2	2-4	4-6	8-10	0-2	2-4	4-6	8-10
			TOB001	TOB001	TOB001	TOB001	TOB001	TOB001	TOB001	TOB001
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.056 U	0.051 U	0.052 U	0.051 U	0.053 U	0.051 U	0.052 U	0.051 U
Aluminum	SB	33,000	15200						1250	
Antimony	SB	N/A	0.37 U						0.34 U	
Arsenic	7.5 or SB	3 - 12	4.7 *	0.83 B*	1.2 *	1.4 *	1.4 *	0.85 B*	0.58 U*	**10.2** *
Barium	300 or SB	15 - 600	39.3	4.8 B	6.6 B	7.8 B	13.0 B	8.8 B	4.3 B	4.7 B
Beryllium	0.16 or SB	0 - 1.75	1.9 U						1.8 U	
Calcium	SB	130 – 35,000	592						444 B	
Cadmium	10	0.1 - 1	0.59	0.11 B	0.18 B	0.20 B	2.5	0.13 B	0.14 B	0.13 B
Chromium	50	1.5 - 40	16.6 *	2.2 *	10.8 *	13.7 *	**74.9** *	13.7 *	4.6 *	6.5 *
Cobalt	30 or SB	2.5 - 60	6.7						1.0 B	
Copper	25 or SB	1 - 50	10.2						2.1 B	
Iron	2,000 or SB	2,000 – 550,000	**17900** *						2660 *	
Lead	400	200 - 500	6.8	1.0	1.0	1.2	3.8	0.79	0.81	0.89
Magnesium	SB	100 – 5,000	2130						248 B	
Manganese	SB	50 – 5,000	148						48.9	
Nickel	13 or SB	0.5 - 25	9.5						1.9 B	
Potassium	SB	8,500 – 43,000	516 BEJ						145 BEJ	
Selenium	2 or SB	0.1 - 3.9	0.60 U	0.54 U	0.56 U	0.55 U	0.56 U	0.55 U	0.55 U	0.55 U
Silver	SB	N/A	0.40 U	0.36 U	0.37 U	0.37 U	3.0	0.36 U	0.37 U	0.36 U
Sodium	SB	6,000 - 8,000	202 B						27.5 B	
Thallium	SB	N/A	0.56 U						0.52 U	
Vanadium	150 or SB	1 - 300	25.8						2.5 B	
Zinc	20 or SB	9 - 50	**30.6**						9.5	
Chromium (VI)	50	1.5 - 40	1.1 U						1 U	
Cyanide	**	--	0.56 U						0.52 U	

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring N-5							
			0-2	2-4	8-10	18-20	28-30	38-40	48-50	58-60
			TOB005	TOB005	TOB005	TOB005	TOB005	TOB005	TOB005	TOB005
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.053 U*	0.060 U
Aluminum	SB	33,000	4400							
Antimony	SB	N/A	0.34 UJN							
Arsenic	7.5 or SB	3 - 12	2.8	1.2	1.2	1.1	1.5	1.2	0.60 U	0.67 U
Barium	300 or SB	15 - 600	23.0	7.7 B	8.5 B	10.1 B	12.0 B	4.8 B	2.5 B	1.8 B
Beryllium	0.16 or SB	0 - 1.75	1.8 U							
Calcium	SB	130 – 35,000	1470							
Cadmium	10	0.1 - 1	2.9	0.24 B	0.49 B	0.32 B	0.44 B	0.17 B	0.051 B	0.045 B
Chromium	50	1.5 - 40	**52.1**	3.4	**56.9**	13.7	20.0	5.0	0.73 B	2.4
Cobalt	30 or SB	2.5 - 60	2.6 B							
Copper	25 or SB	1 - 50	18.5							
Iron	2,000 or SB	2,000 – 550,000	**6460**							
Lead	400	200 - 500	24.6	1.7	1.0	4.1	6.8	1.2	1.5	1.3
Magnesium	SB	100 – 5,000	595							
Manganese	SB	50 – 5,000	84.3							
Nickel	13 or SB	0.5 - 25	5.3							
Potassium	SB	8,500 – 43,000	309 BEJ							
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.56 U	0.56 U	0.56 U	0.56 U	0.57 U	0.57 U	0.64 U
Silver	SB	N/A	2.7	0.38 U	0.37 U	0.37 U	0.37 U	0.38 U	0.38 U	0.43 U
Sodium	SB	6,000 - 8,000	46.8 B							
Thallium	SB	N/A	0.52 U							
Vanadium	150 or SB	1 - 300	12.3							
Zinc	20 or SB	9 - 50	77.7 EJ							
Chromium (VI)	50	1.5 - 40	1.6							
Cyanide	**	–	0.52 U							

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring N-7													
			0-2		2-4		8-10		18-20		28-30		38-40		48-50		58-60	
			TOB010		TOB010		TOB010		TOB010		TOB010		TOB010		TOB010		TOB010	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.053	U	0.082	B	0.052	U	0.055	U	0.054	U	0.053	U	0.052	U	0.059	U
Aluminum	SB	33,000	4220															
Antimony	SB	N/A	0.61	UJN														
Arsenic	7.5 or SB	3 - 12	4.7		3.2		4.4		2.1		1.6		6.1		1.1		2.2	
Barium	300 or SB	15 - 600	18.0	B	**855**		60.2		68.5		9.9	B	43.8		2.3	B	2.6	B
Beryllium	0.16 or SB	0 - 1.75	0.16	B														
Calcium	SB	130 – 35,000	15200															
Cadmium	10	0.1 - 1	0.53		0.65		0.25	B	0.19	B	0.071	U	0.37	B	0.071	B	0.077	U
Chromium	50	1.5 - 40	22.6	*	**55.9**	*	**89.6**	*	31.8	*	9.2	*	**84.8**	*	2.1	*	6.1	*
Cobalt	30 or SB	2.5 - 60	1.5	B														
Copper	25 or SB	1 - 50	4.7															
Iron	2,000 or SB	2,000 – 550,000	**5390**															
Lead	400	200 - 500	2.7		22.3		13.7		9.2		2.0		14.5		0.88		2.5	
Magnesium	SB	100 – 5,000	1240															
Manganese	SB	50 – 5,000	64.8	*														
Nickel	13 or SB	0.5 - 25	3.0	B														
Potassium	SB	8,500 – 43,000	215	BE														
Selenium	2 or SB	0.1 - 3.9	0.50	UN	0.86	N	0.49	UN	0.51	UN	0.51	UN	0.95	JN	0.49	UN	0.55	UN
Silver	SB	N/A	0.14	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.14	U	0.16	U
Sodium	SB	6,000 - 8,000	84.1	B														
Thallium	SB	N/A	0.46	B														
Vanadium	150 or SB	1 - 300	5.9															
Zinc	20 or SB	9 - 50	16.8															
Chromium (VI)	50	1.5 - 40	1.1	U														
Cyanide	**	--	0.53	U														

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring N-9																	
			0-2		2-4		8-10		10-12		18-20		28-30		38-40		48-50		58-60	
			TOB010		TOB003		TOB003		TOB003		TOB003		TOB003		TOB003		TOB003		TOB003	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.052	U	0.070	B	0.052	U	**0.20**		**0.11**		0.052	U	0.052	U	0.052	U	0.058	U
Aluminum	SB	33,000							1610										158	
Antimony	SB	N/A							0.35	U									0.38	U
Arsenic	7.5 or SB	3 - 12	1.2		1.4	JN*	0.59	UJN*	4.2	JN*	2.8	JN*	1.8	JN*	1.5	JN*	**9.4**	JN*	1.1	BJN*
Barium	300 or SB	15 - 600	14.1	B	21.5	B	4.9	B	19.9	B	18.1	B	6.8	B	4.3	B	9.0	B	2.0	B
Beryllium	0.16 or SB	0 - 1.75							1.8	U									2.0	U
Calcium	SB	130 – 35,000							3690										64.3	B
Cadmium	10	0.1 - 1	0.50	B	1.1		0.17	B	0.75		0.92		0.22	B	0.18	B	0.61		0.069	B
Chromium	50	1.5 - 40	24.1	*	14.5		10.5		34.1		42.9		16.9		7.8		20.6		3.6	
Cobalt	30 or SB	2.5 - 60							1.8	B									0.21	B
Copper	25 or SB	1 - 50							15.5	JN									0.45	BJN
Iron	2,000 or SB	2,000 – 550,000							**7860**	*									1540	*
Lead	400	200 - 500	13.1		143		1.9		13.3		8.3		1.6		1.7		0.86		1.1	
Magnesium	SB	100 – 5,000							395	B									6.5	B
Manganese	SB	50 – 5,000							57.1										9.0	
Nickel	13 or SB	0.5 - 25							5.6										0.32	B
Potassium	SB	8,500 – 43,000							140	BEJ									53.3	BEJ
Selenium	2 or SB	0.1 - 3.9	0.49	UN	0.60	U	0.56	U	0.57	U	0.58	U	0.56	U	0.55	U	0.56	U	0.62	U
Silver	SB	N/A	0.14	U	0.40	U	0.37	U	0.38	U	0.39	U	0.37	U	0.37	U	0.37	U	0.41	U
Sodium	SB	6,000 - 8,000							57.9	B									32.5	B
Thallium	SB	N/A							0.53	U									0.58	U
Vanadium	150 or SB	1 - 300							4.5	B									1.8	B
Zinc	20 or SB	9 - 50							**92.1**										2.7	
Chromium (VI)	50	1.5 - 40							1.1	U									1.2	U
Cyanide	**	–							0.53	UJ									0.58	UJ

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring N-4										Boring N-6							
			0-2		2-4		4-6		8-10		10-12		0-2		2-4		4-6		8-10	
			TOB035		TOB035		TOB035		TOB035		TOB035		TOB004		TOB004		TOB004		TOB004	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.052	UN	0.056	UN	0.051	UN	0.052	UN	0.051	UN	0.073	B	0.054	U	0.053	U	0.052	U
Aluminum	SB	33,000	2950								1530		3950							
Antimony	SB	N/A	0.72	JBN							0.59	JUN	0.34	UJN						
Arsenic	7.5 or SB	3 - 12	2.3		1.1	B	0.31	B	0.75	B	1.1		2.6		3.6		1.1		1.1	
Barium	300 or SB	15 - 600	15.5	B	10	B	4.1	B	10.1	B	8.4	B	16.6	B	84.1		11.6	B	14.6	B
Beryllium	0.16 or SB	0 - 1.75	0.15	B							0.095	B	1.8	U						
Calcium	SB	130 – 35,000	916								988		4810	*						
Cadmium	10	0.1 - 1	1.2		0.11	B	0.066	U	0.068	U	0.11	B	0.77		1.3		0.26	B	0.30	B
Chromium	50	1.5 - 40	38.5	JN	6.5	JN	2.0	JN	5.2	JN	23.8	JN	20.3	JN	14.8	JN	8.4	JN	15.0	JN
Cobalt	30 or SB	2.5 - 60	1.5	B							2.5	B	2.1	B						
Copper	25 or SB	1 - 50	19.0	J*							5.6	J*	6.0							
Iron	2,000 or SB	2,000 – 550,000	**5870**								**6760**		**7390**							
Lead	400	200 - 500	9.9		3.7		0.99	J	2.7		2.1		7.0	JN*	21.8	JN*	1.8	JN*	1.2	JN*
Magnesium	SB	100 – 5,000	358	B							269	B	839							
Manganese	SB	50 – 5,000	67.6	J*							138	J*	80.0							
Nickel	13 or SB	0.5 - 25	2.9	B							2.5	B	3.5	B						
Potassium	SB	8,500 – 43,000	170	B							155	B	336	BE						
Selenium	2 or SB	0.1 - 3.9	0.49	U	0.53	U	0.48	U	0.49	U	0.48	U	0.56	U	0.58	U	0.57	U	0.56	U
Silver	SB	N/A	1.5		0.15	U	0.14	U	0.14	U	0.14	U	0.37	U	0.38	U	0.38	U	0.37	U
Sodium	SB	6,000 - 8,000	35.6	B							39.4	B	59.5	B						
Thallium	SB	N/A	0.42	U							0.41	U	0.52	U						
Vanadium	150 or SB	1 - 300	7.0								3.9	B	8.8							
Zinc	20 or SB	9 - 50	**35.7**								9.9		36.4	EJ						
Chromium (VI)	50	1.5 - 40	1.8								1	U	1	U						
Cyanide	**	–	0.52	U							0.51	U	0.52	U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.2 (continued). METAL SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	Boring N-8							
			0-2		2-4		4-6		8-10	
			TOB001		TOB001		TOB001		TOB001	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.056	U	0.056	U	0.051	U	0.052	U
Aluminum	SB	33,000	10600							
Antimony	SB	N/A	0.37	U						
Arsenic	7.5 or SB	3 - 12	**10.0**	*	2.5	*	0.97	B*	0.58	U*
Barium	300 or SB	15 - 600	28.0		27.4		9.1	B	6.6	B
Beryllium	0.16 or SB	0 - 1.75	1.9	U						
Calcium	SB	130 – 35,000	569							
Cadmium	10	0.1 - 1	0.64		0.27	B	0.14	B	0.11	B
Chromium	50	1.5 - 40	17.0	*	12.1	*	2.9	*	4.0	*
Cobalt	30 or SB	2.5 - 60	3.5	B						
Copper	25 or SB	1 - 50	12.8							
Iron	2,000 or SB	2,000 – 550,000	**27900**	*						
Lead	400	200 - 500	3.5		4.0		0.65		0.51	
Magnesium	SB	100 – 5,000	1340							
Manganese	SB	50 – 5,000	164							
Nickel	13 or SB	0.5 - 25	5.9							
Potassium	SB	8,500 – 43,000	499	BEJ						
Selenium	2 or SB	0.1 - 3.9	0.60	U	0.60	U	0.55	U	0.55	U
Silver	SB	N/A	0.40	U	0.40	U	0.37	U	0.37	U
Sodium	SB	6,000 - 8,000	92.4	B						
Thallium	SB	N/A	0.56	U						
Vanadium	150 or SB	1 - 300	50.6							
Zinc	20 or SB	9 - 50	**26.4**							
Chromium (VI)	50	1.5 - 40	1.1	U						
Cyanide	**	–	0.56	U						

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.
** - Soil cleanup objective should consider the site specific form(s) of cyanide.

TABLE 4.2.3. VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9	A-10
		0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	600	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,1,2 Trichloroethane		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,1-Dichloroethane	200	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,1-Dichloroethene	400	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,2-Dichloroethane	100	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,2-Dichloroethene	300	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,2 Dichloropropane		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
2-Butanone	300	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
2-Hexanone		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
4-Methyl-2-Pentanone	1000	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Acetone	200	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Benzene	60	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Bromodichloromethane		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Bromoform		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Bromomethane		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Carbon Disulfide	2700	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Carbon Tetrachloride	600	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Chlorobenzene	1700	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Chloroethane	1900	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Chloroform	300	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Chloromethane		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
cis-1,3 Dichloropropene		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Dibromochloromethane		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Ethylbenzene	5500	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Methylene chloride	100	11 U	11 U	12 U	18 U	22 U	19 U	20 U	11 U	11 U	11 U
Styrene		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Tetrachloroethene	1400	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Toluene	1500	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
trans-1,3 Dichloropropene		11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Trichloroethene	700	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Vinyl chloride	200	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Xylenes	1200	11 U	11 U	12 U	11 U	3 J	11 U	2 J	11 U	11 U	11 U
Total	10000	U	U	U	U	U	U	U	U	U	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	A-11	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9
		0-2 ft	8-10 ft	2-4 ft	58-60 ft	2-4 ft	0-2 ft	2-4 ft	0-2 ft	0-2 ft	4-6 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
1,1,2,2-Tetrachloroethane	600	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
1,1,2 Trichloroethane		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
1,1-Dichloroethane	200	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
1,1-Dichloroethene	400	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
1,2-Dichloroethane	100	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
1,2-Dichloroethene	300	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
1,2 Dichloropropane		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
2-Butanone	300	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
2-Hexanone		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
4-Methyl-2-Pentanone	1000	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Acetone	200	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Benzene	60	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Bromodichloromethane		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Bromoform		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Bromomethane		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Carbon Disulfide	2700	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Carbon Tetrachloride	600	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Chlorobenzene	1700	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Chloroethane	1900	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Chloroform	300	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Chloromethane		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
cis-1,3 Dichloropropene		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Dibromochloromethane		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Ethylbenzene	5500	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Methylene chloride	100	33 R	10 U	10 U	11 U	10 U	39 R	24 U	11 U	47 UR	11 U
Styrene		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Tetrachloroethene	1400	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Toluene	1500	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
trans-1,3 Dichloropropene		10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Trichloroethene	700	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	2 J	11 U
Vinyl chloride	200	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Xylenes	1200	10 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	10 U	11 U
Total	10000	U	U	U	U	U	U	U	U	2	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	B-10	B-11	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8
		0-2 ft	0-2 ft	0-2 ft	2-4 ft	2-4 ft	2-4 ft	2-4 ft	2-4 ft	0-2 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
1,1,2,2-Tetrachloroethane	600	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
1,1,2 Trichloroethane		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
1,1-Dichloroethane	200	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
1,1-Dichloroethene	400	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
1,2-Dichloroethane	100	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
1,2-Dichloroethene	300	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
1,2 Dichloropropane		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
2-Butanone	300	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
2-Hexanone		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
4-Methyl-2-Pentanone	1000	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Acetone	200	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Benzene	60	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Bromodichloromethane		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Bromoform		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Bromomethane		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Carbon Disulfide	2700	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Carbon Tetrachloride	600	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Chlorobenzene	1700	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Chloroethane	1900	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Chloroform	300	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Chloromethane		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
cis-1,3 Dichloropropene		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Dibromochloromethane		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Ethylbenzene	5500	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Methylene chloride	100	10 U	11 U	10 U	11 U	10 U	11 U	11 U	23 U	19 U	45 UR
Styrene		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Tetrachloroethene	1400	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Toluene	1500	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
trans-1,3 Dichloropropene		10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Trichloroethene	700	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Vinyl chloride	200	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Xylenes	1200	10 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Total	10000	U	U	U	U	U	U	U	U	U	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	C-9	C-10	C-11	C-12	D-1	D-2	D-3	D-4	D-5	D-6
		0-2 ft	0-2 ft	0-2 ft	0-2 ft	4-6 ft	2-4 ft	28-30 ft	2-4 ft	2-4 ft	4-6 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	600	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
1,1,2 Trichloroethane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
1,1-Dichloroethane	200	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
1,1-Dichloroethene	400	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
1,2-Dichloroethane	100	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
1,2-Dichloroethene	300	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
1,2 Dichloropropane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
2-Butanone	300	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
2-Hexanone		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
4-Methyl-2-Pentanone	1000	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Acetone	200	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Benzene	60	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Bromodichloromethane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Bromoform		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Bromomethane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Carbon Disulfide	2700	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Carbon Tetrachloride	600	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Chlorobenzene	1700	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Chloroethane	1900	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Chloroform	300	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Chloromethane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
cis-1,3 Dichloropropene		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Dibromochloromethane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Ethylbenzene	5500	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Methylene chloride	100	55 R	64 BR	68 JB	41 JU	10 U	10 U	10 U	11 U	10 U	26 U
Styrene		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Tetrachloroethene	1400	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Toluene	1500	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
trans-1,3 Dichloropropene		10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Trichloroethene	700	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Vinyl chloride	200	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Xylenes	1200	10 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U	11 U	11 U
Total	10000	U	U	U	U	U	U	U	U	U	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	D-7	D-8	D-9	D-10	D-11	D-12	E-1	E-2	E-3	E-4
		28-30 ft	0-2 ft	48-50 ft	0-2 ft	4-6 ft	2-4 ft	2-4 ft	2-4 ft	4-6 ft	2-4 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	600	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
1,1,2 Trichloroethane		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
1,1-Dichloroethane	200	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
1,1-Dichloroethene	400	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
1,2-Dichloroethane	100	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
1,2-Dichloroethene	300	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
1,2 Dichloropropane		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
2-Butanone	300	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
2-Hexanone		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
4-Methyl-2-Pentanone	1000	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Acetone	200	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Benzene	60	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Bromodichloromethane		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Bromoform		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Bromomethane		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Carbon Disulfide	2700	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Carbon Tetrachloride	600	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Chlorobenzene	1700	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Chloroethane	1900	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Chloroform	300	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Chloromethane		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
cis-1,3 Dichloropropene		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Dibromochloromethane		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Ethylbenzene	5500	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Methylene chloride	100	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Styrene		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Tetrachloroethene	1400	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Toluene	1500	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
trans-1,3 Dichloropropene		11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Trichloroethene	700	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Vinyl chloride	200	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Xylenes	1200	11 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	11 U	11 U
Total	10000	U	U	U	U	U	U	U	U	U	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	E-5	E-6	E-7	E-8	E-9	E-10	E-11	E-13	F-1	F-2
		2-4 ft	2-4 ft	0-2 ft	8-10 ft	6-8 ft	0-2 ft	2-4 ft	2-4 ft	18-20 ft	2-4 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,1,2,2-Tetrachloroethane	600	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,1,2 Trichloroethane		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,1-Dichloroethane	200	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,1-Dichloroethene	400	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,2-Dichloroethane	100	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,2-Dichloroethene	300	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,2 Dichloropropane		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2-Butanone	300	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2-Hexanone		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
4-Methyl-2-Pentanone	1000	11 U	10 U	10 U	10 U	10 U	10 U	10 JU	10 U	10 JU	11 U
Acetone	200	32	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Benzene	60	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Bromodichloromethane		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Bromoform		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Bromomethane		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Carbon Disulfide	2700	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Carbon Tetrachloride	600	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Chlorobenzene	1700	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Chloroethane	1900	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Chloroform	300	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Chloromethane		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
cis-1,3 Dichloropropene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Dibromochloromethane		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Ethylbenzene	5500	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Methylene chloride	100	11 U	17 U	10 U	10 U	10 U	10 U	10 U	48 R	10 U	11 U
Styrene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Tetrachloroethene	1400	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Toluene	1500	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
trans-1,3 Dichloropropene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Trichloroethene	700	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4 J
Vinyl chloride	200	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Xylenes	1200	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Total	10000	32 U	U	U	U	U	U	U	U	U	4

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	F-3	F-4	F-5	F-6	F-7	F-8	F-9	F-10	F-11	F-11
		8-10 ft	2-4 ft	2-4 ft	2-4 ft	2-4 ft	0-2 ft	6-8 ft	2-4 ft	4-6 ft	6-8 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	600	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2 Trichloroethane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	200	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	400	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	100	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene	300	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2 Dichloropropane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	300	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	1000	10 JU	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	200	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	60	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	2700	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	600	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	1700	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	1900	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	300	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3 Dichloropropene		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5500	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	100	10 U	11 U	11 U	10 U	10 U	10 U	11 U	10 U	10 U	9 BJ
Styrene		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	1400	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	1500	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3 Dichloropropene		10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	700	10 U	11 U	11 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	200	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes	1200	10 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total	10000	U	U	U	U	3	U	U	U	U	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	F-13	G-1	G-2	G-3	G-4	G-4	G-4	G-5	G-6	G-7
		0-2 ft	4-6 ft	2-4 ft	8-10 ft	2-4 ft	8-10 ft	12-14 ft	2-4 ft	2-4 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
1,1,2,2-Tetrachloroethane	600	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
1,1,2 Trichloroethane		10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
1,1-Dichloroethane	200	10 U	10 U	11 U	11 U	20	2 J	11 U	10 U	11 U	11 U
1,1-Dichloroethene	400	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
1,2-Dichloroethane	100	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
1,2-Dichloroethene	300	10 U	1 J	11 U	11 U	100	14 U	11 U	10 U	11 U	11 U
1,2 Dichloropropane		10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
2-Butanone	300	10 U	10 U	11 U	11 U	13 U	30	31	10 U	11 U	11 U
2-Hexanone		10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
4-Methyl-2-Pentanone	1000	10 JU	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Acetone	200	10 U	10 U	16	29	13 U	140	98	10 U	11 U	11 U
Benzene	60	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Bromodichloromethane		10 U	10 U	11 U	11 U	13 U	14 U	45 J	10 U	11 U	11 U
Bromoform		10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Bromomethane		10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Carbon Disulfide	2700	10 U	10 U	11 JU	11 U	13 U	6 J	3 J	10 U	11 U	11 U
Carbon Tetrachloride	600	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Chlorobenzene	1700	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Chloroethane	1900	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Chloroform	300	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Chloromethane		10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
cis-1,3 Dichloropropene		10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Dibromochloromethane		10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Ethylbenzene	5500	10 U	10 U	11 U	11 U	13 U	14 U	51	10 U	11 U	11 U
Methylene chloride	100	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Styrene		10 U	10 U	11 U	11 U	13 U	14 U	70 J	10 U	11 U	11 U
Tetrachloroethene	1400	10 U	10 U	11 U	11 U	13 U	14 U	11 U	10 U	11 U	11 U
Toluene	1500	10 U	10 U	11 U	11 U	13 U	3 J	11 U	10 U	11 U	11 U
trans-1,3 Dichloropropene		10 U	10 U	11 U	11 U	13 U	14 U	12	10 U	11 U	11 U
Trichloroethene	700	10 U	4 J	11 U	11 U	4 J	14 U	11 U	10 U	5 J	11 U
Vinyl chloride	200	10 U	10 U	11 U	11 U	5 J	14 U	11 U	10 U	11 U	11 U
Xylenes	1200	10 U	10 U	11 U	5 J	13 U	14 U	69	10 U	11 U	11 U
Total	10000	U	5	16	34	129	175	379	U	5	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	G-8	G-9	G-10	G-11	G-14	H-1	H-2	H-3	H-3	H-4
		0-2 ft	8-10 ft	2-4 ft	4-6 ft	2-4 ft	0-2 ft	2-4 ft	2-4 ft	4-6 ft	2-4 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	600	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
1,1,2 Trichloroethane		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	200	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	400	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	100	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene	300	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
1,2 Dichloropropane		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
2-Butanone	300	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
2-Hexanone		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	1000	11 U	10 U	11 U	10 JU	10 U	11 U	10 U	10 U	10 U	10 U
Acetone	200	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Benzene	60	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Bromodichloromethane		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Bromoform		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Bromomethane		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Carbon Disulfide	2700	11 U	10 U	11 U	10 U	10 U	11 U	10 JU	10 U	10 U	10 U
Carbon Tetrachloride	600	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Chlorobenzene	1700	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Chloroethane	1900	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Chloroform	300	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Chloromethane		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
cis-1,3 Dichloropropene		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Dibromochloromethane		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Ethylbenzene	5500	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Methylene chloride	100	11 U	10 U	11 U	10 U	10 U	11 JU	10 U	10 U	15 U	10 U
Styrene		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Tetrachloroethene	1400	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Toluene	1500	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
trans-1,3 Dichloropropene		11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Trichloroethene	700	11 U	10 U	11 U	10 U	10 U	3 J	10 U	10 U	10 U	9 J
Vinyl chloride	200	11 U	10 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Xylenes	1200	11 U	10 U	11 U	10 U	10 U	5 J	10 U	10 U	10 U	10 U
Total	10000	U	U	U	U	U	8	U	U	U	9

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	H-5	H-6	H-7	H-7	H-8	H-9	H-10	H-12	H-13	H-14
		2-4 ft	2-4 ft	0-2 ft	48-50 ft	0-2 ft	18-20 ft	4-6 ft	2-4 ft	58-60 ft	6-8 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
1,1,2,2-Tetrachloroethane	600	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
1,1,2 Trichloroethane		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
1,1-Dichloroethane	200	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
1,1-Dichloroethene	400	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
1,2-Dichloroethane	100	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
1,2-Dichloroethene	300	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
1,2 Dichloropropane		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
2-Butanone	300	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
2-Hexanone		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
4-Methyl-2-Pentanone	1000	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Acetone	200	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Benzene	60	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Bromodichloromethane		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Bromoform		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Bromomethane		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Carbon Disulfide	2700	10 U	10 U	10 JU	12 JU	10 U	10 U	10 U	10 U	12 U	10 U
Carbon Tetrachloride	600	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Chlorobenzene	1700	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Chloroethane	1900	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Chloroform	300	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Chloromethane		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
cis-1,3 Dichloropropene		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Dibromochloromethane		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Ethylbenzene	5500	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Methylene chloride	100	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Styrene		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Tetrachloroethene	1400	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Toluene	1500	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
trans-1,3 Dichloropropene		10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Trichloroethene	700	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Vinyl chloride	200	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Xylenes	1200	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	12 U	10 U
Total	10000	U	U	U	U	U	U	U	U	U	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	I-1	I-1	I-2	I-3	I-4	I-5	I-6	I-7	I-8	I-9
		4-6 ft	18-20 ft	2-4 ft	2-4 ft	2-4 ft	2-4 ft	2-4 ft	6-8 ft	0-2 ft	6-8 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	600	11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
1,1,2 Trichloroethane		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
1,1-Dichloroethane	200	84	34	3 J	11 U	10 U	10 U	11 U	10 U	10 U	10 U
1,1-Dichloroethene	400	11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
1,2-Dichloroethane	100	11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
1,2-Dichloroethene	300	11 U	12	160 D	11 U	10 U	10 U	11 U	10 U	3 J	10 U
1,2 Dichloropropane		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
2-Butanone	300	36	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
2-Hexanone		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	1000	11 U	12 U	11 U	11 JU	10 U	10 U	11 U	10 U	10 U	10 U
Acetone	200	110	44	49	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Benzene	60	2 J	1 J	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Bromodichloromethane		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Bromoform		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Bromomethane		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Carbon Disulfide	2700	28 J	3 J	11 U	11 U	10 U	10 U	11 U	10 U	2 J	10 U
Carbon Tetrachloride	600	11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Chlorobenzene	1700	11 U	60	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Chloroethane	1900	11 U	35	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Chloroform	300	11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Chloromethane		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
cis-1,3 Dichloropropene		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Dibromochloromethane		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Ethylbenzene	5500	1400 D	130	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Methylene chloride	100	11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Styrene		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Tetrachloroethene	1400	11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Toluene	1500	940 D	130	7 J	11 U	10 U	10 U	11 U	10 U	10 U	10 U
trans-1,3 Dichloropropene		11 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Trichloroethene	700	11 U	7 J	25	3 J	10 U	10 U	11 U	10 U	2 J	10 U
Vinyl chloride	200	11 U	15	5 J	11 U	10 U	10 U	11 U	10 U	10 U	10 U
Xylenes	1200	**3300** D	340	9 J	11 U	10 U	10 U	11 U		3 J	10 U
Total	10000	5900	811	258	3	U	U	U	U	10	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	I-10	I-10	I-10	I-11	I-12	J-1	J-2	J-3	J-4	J-5
		2-4 ft	4-6 ft	6-8 ft	6-8 ft	6-8 ft	48-50 ft	8-10 ft	58-60 ft	0-2 ft	8-10 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	11 U	11 U	11 U	10 U	10 U	4 J	56 U	11 U	11 U	10 U
1,1,2,2-Tetrachloroethane	600	11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
1,1,2 Trichloroethane		11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
1,1-Dichloroethane	200	11 U	11 U	11 U	10 U	10 U	10 J	56 U	11 U	11 U	10 U
1,1-Dichloroethene	400	11 U	11 U	11 U	10 U	10 U	3 J	56 U	11 U	11 U	10 U
1,2-Dichloroethane	100	11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
1,2-Dichloroethene	300	1 J	11 U	11 U	10 U	10 U	**760** DJ	10 J	11 U	11 U	10 U
1,2 Dichloropropane		11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
2-Butanone	300	11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
2-Hexanone		11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
4-Methyl-2-Pentanone	1000	11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Acetone	200	11 U	11 U	27 J	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Benzene	60	11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Bromodichloromethane		11 U	11 U	11 U	10 U	10 U	12 U	170 J	11 U	11 U	10 U
Bromoform		11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Bromomethane		11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Carbon Disulfide	2700	11 U	7 J	6 J	10 U	10 U	12 U	56 JU	7 U	11 U	10 U
Carbon Tetrachloride	600	11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Chlorobenzene	1700	11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Chloroethane	1900	11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Chloroform	300	11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Chloromethane		11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
cis-1,3 Dichloropropene		11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Dibromochloromethane		11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Ethylbenzene	5500	11 U	3 JN	7 J	10 U	10 U	3 J	14 J	3 U	11 U	10 U
Methylene chloride	100	11 U	11 U	11 U	10 U	10 U	12 U	56 U	12 U	9 BJ	25 UB
Styrene		11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Tetrachloroethene	1400	11 U	11 U	11 U	10 U	10 U	20	56 U	11 U	11 U	10 U
Toluene	1500	11 U	11 U	11 U	10 U	10 U	130	13 J	11 U	11 U	10 U
trans-1,3 Dichloropropene		11 U	11 U	11 U	10 U	10 U	12 U	56 U	11 U	11 U	10 U
Trichloroethene	700	11 U	11 U	11 U	10 U	10 U	**17000** D	56 U	11 U	11 U	10 U
Vinyl chloride	200	11 U	11 U	11 U	10 U	10 U	7 J	56 U	11 U	11 U	10 U
Xylenes	1200	11 U	18	43	10 U	10 U	24	82	18 U	11 U	10 U
Total	10000	1	10	83	U	U	**17972**	207	U	U	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	J-6	J-7	J-8	J-9	J-10	K-4	K-5	K-5	K-6	K-6
		2-4 ft	0-2 ft	0-2 ft	6-8 ft	0-2 ft	8-10 ft	4-6 ft	8-10 ft	2-4 ft	6-8 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,1,2,2-Tetrachloroethane	600	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,1,2 Trichloroethane		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,1-Dichloroethane	200	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,1-Dichloroethene	400	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,2-Dichloroethane	100	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
1,2-Dichloroethene	300	4 J	11 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	2 J
1,2 Dichloropropane		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2-Butanone	300	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
2-Hexanone		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
4-Methyl-2-Pentanone	1000	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Acetone	200	12 U	11 U	27 J	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Benzene	60	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Bromodichloromethane		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Bromoform		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Bromomethane		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Carbon Disulfide	2700	12 U	11 U	4 J	10 U	10 U	10 U	10 U	10 U	10 U	2 J
Carbon Tetrachloride	600	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Chlorobenzene	1700	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Chloroethane	1900	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Chloroform	300	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Chloromethane		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
cis-1,3 Dichloropropene		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Dibromochloromethane		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Ethylbenzene	5500	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Methylene chloride	100	12 U	11 U	12 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Styrene		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Tetrachloroethene	1400	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Toluene	1500	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
trans-1,3 Dichloropropene		12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Trichloroethene	700	4 J	11 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Vinyl chloride	200	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U
Xylenes	1200	12 U	11 U	11 U	10 U	10 U	10 U	6 J	10 U	3 J	11 U
Total	10000	8 U		34 U		U	U	6 U		3	4

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	K-6	K-7	K-8	K-9	L-4	L-5	L-6	L-7	L-8	L-9
		8-10 ft	6-8 ft	18-20 ft	6-8 ft	0-2 ft	18-20 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
1,1,2,2-Tetrachloroethane	600	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
1,1,2 Trichloroethane		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
1,1-Dichloroethane	200	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
1,1-Dichloroethene	400	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
1,2-Dichloroethane	100	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
1,2-Dichloroethene	300	3 J	10 U	11 U	1 J	10 U	11 U	10 U	11 U	10 U	11 U
1,2 Dichloropropane		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
2-Butanone	300	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
2-Hexanone		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
4-Methyl-2-Pentanone	1000	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Acetone	200	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Benzene	60	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Bromodichloromethane		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Bromoform		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Bromomethane		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Carbon Disulfide	2700	2 J	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Carbon Tetrachloride	600	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Chlorobenzene	1700	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Chloroethane	1900	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Chloroform	300	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Chloromethane		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
cis-1,3 Dichloropropene		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Dibromochloromethane		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Ethylbenzene	5500	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Methylene chloride	100	11 U	10 UJ	11 UJ	11 UJ	10 U	11 U	10 U	11 U	10 U	11 U
Styrene		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Tetrachloroethene	1400	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Toluene	1500	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
trans-1,3 Dichloropropene		11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Trichloroethene	700	11 U	10 U	11 U	9 J	2 J	11 U	10 U	11 U	10 U	11 U
Vinyl chloride	200	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Xylenes	1200	11 U	10 U	11 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U
Total	10000	5 U	U	U	10 U	2 U	U	U	U	U	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	M-4	M-5	M-6	M-7	M-8	M-9	N-4	N-4	N-5	N-6
		0-2 ft	0-2 ft	0-2 ft	0-2	0-2	4-6 ft	0-2 ft	10-12 ft	0-2 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,1,1 Trichloroethane	800	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	600	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
1,1,2 Trichloroethane		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	200	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	400	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	100	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene	300	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	3 J
1,2 Dichloropropane		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	300	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	1000	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Acetone	200	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Benzene	60	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	2700	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	600	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	1700	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	1900	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Chloroform	300	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Chloromethane		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
cis-1,3 Dichloropropene		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5500	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	100	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Styrene		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	1400	10 U	10 U	11 U	7 J	4 J	5 J	10 U	10 U	10 U	10 U
Toluene	1500	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
trans-1,3 Dichloropropene		10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	700	10 U	10 U	11 U	2 J	11 U	10 U	2 J	6 J	4 J	8 J
Vinyl chloride	200	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Xylenes	1200	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Total	10000	U	U	U	9	4	5	2	6	4	11

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.3 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	N-7		N-8		N-9		N-9	
		0-2 ft		0-2 ft		10-12 ft		58-60 ft	
	(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)	
1,1,1 Trichloroethane	800	11	U	11	U	11	U	12	U
1,1,2,2-Tetrachloroethane	600	11	U	11	U	11	U	12	U
1,1,2 Trichloroethane		11	U	11	U	11	U	12	U
1,1-Dichloroethane	200	11	U	11	U	11	U	12	U
1,1-Dichloroethene	400	11	U	11	U	11	U	12	U
1,2-Dichloroethane	100	11	U	11	U	11	U	12	U
1,2-Dichloroethene	300	11	U	11	U	3	J	12	U
1,2 Dichloropropane		11	U	11	U	11	U	12	U
2-Butanone	300	11	U	11	U	11	U	12	U
2-Hexanone		11	U	11	U	11	U	12	U
4-Methyl-2-Pentanone	1000	11	U	11	U	11	U	12	U
Acetone	200	11	U	11	U	11	U	12	U
Benzene	60	11	U	11	U	11	U	12	U
Bromodichloromethane		11	U	11	U	11	U	12	U
Bromoform		11	U	11	U	11	U	12	U
Bromomethane		11	U	11	U	11	U	12	U
Carbon Disulfide	2700	11	U	11	U	1	J	12	U
Carbon Tetrachloride	600	11	U	11	U	11	U	12	U
Chlorobenzene	1700	11	U	11	U	11	U	12	U
Chloroethane	1900	11	U	11	U	11	U	12	U
Chloroform	300	11	U	11	U	11	U	12	U
Chloromethane		11	U	11	U	11	U	12	U
cis-1,3 Dichloropropene		11	U	11	U	11	U	12	U
Dibromochloromethane		11	U	11	U	11	U	12	U
Ethylbenzene	5500	11	U	11	U	11	U	12	U
Methylene chloride	100	11	U	11	U	11	U	12	U
Styrene		11	U	11	U	11	U	12	U
Tetrachloroethene	1400	11	U	6	J	3	J	12	U
Toluene	1500	11	U	11	U	5	J	12	U
trans-1,3 Dichloropropene		11	U	11	U	11	U	12	U
Trichloroethene	700	11	U	11	U	26		12	U
Vinyl chloride	200	11	U	11	U	11	U	12	U
Xylenes	1200	11	U	11	U	11	U	12	U
Total	10000		U	6		38			U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
B – Analyte found in associated blank as well as sample and may indicate blank contamination.
D – Analyte detected in an analysis at a secondary dilution factor.
J – Estimated value.
U – Parameter was analyzed but was not detected.

TABLE 4.2.4. SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	A-1	A-2	A-3	A-4	A-5	A-6
		0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	U	U	U	U	U
2,4-Dichlorophenol	400	U	U	U	U	U	U
2,4-Dimethylphenol		U	U	U	U	U	U
2,4-Dinitrophenol	200 or MDL	U	U	U	U	U	U
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	U	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	U	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U	U	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	U	U	U	U
-Nitroaniline		U	U	U	U	U	U
-Nitrophenol	100 or MDL	U	U	U	U	U	U
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	U	140 J	120 J	U	160 J	U
Benzo(a)pyrene	61 or MDL	U	**130** J	**110** J	U	**180** J	U
Benzo(b)fluoranthene	1100	U	200 J	140 J	U	310 J	U
Benzo(g,h,i)perylene	50000	U	U	U	U	U	U
Benzo(k)fluoranthene	1100	U	99 J	U	U	100 J	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		300 J	650	110 J	83 J	170 J	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	160 J	120 J	83 J	220 J	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	110 J	300 J	220 J	140 J	410	U
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	U	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	U	U	U	U
Phenanthrene	50000	U	130 J	94 J	U	190 J	U
Phenol	30 or MDL	U	U	U	U	U	U
Pyrene	50000	100 J	280 J	220 J	120 J	360 J	U
Total	500000	510	2089	1134	426	2100	U

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	A-7	A-8	A-9	A-10	A-11	B-1
		0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	8-10 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	U	JU	JU
2,4,6-Trichlorophenol		U	U	U	U	JU	JU
2,4-Dichlorophenol	400	U	U	U	U	JU	JU
2,4-Dimethylphenol		U	U	U	U	JU	JU
2,4-Dinitrophenol	200 or MDL	U	U	U	U	JU	JU
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	U	JU	JU
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	U	U	JU	JU
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	U	JU	JU
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U	JU	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	U	JU	JU
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	U	U	JU	JU
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	U	U	JU	JU
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	100 J	U	U	U
Anthracene	50000	U	U	110 J	U	U	U
Benzo(a)anthracene	224 or MDL	**300** J	U	**660**	U	U	U
Benzo(a)pyrene	61 or MDL	**270** J	U	**630**	U	U	U
Benzo(b)fluoranthene	1100	330 J	U	840	U	U	U
Benzo(g,h,i)perylene	50000	85 J	U	220 J	U	U	U
Benzo(k)fluoranthene	1100	140 J	U	450	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	U	110 J	U	U	140 J
Butyl benzyl phthlate	50000	U	U	U	U	81 J	U
Carbazole		U	U	84 J	U	U	U
Chrysene	400	300 J	U	**740**	U	72 J	U
Dibenz(a,h)anthracene	14 or MDL	U	U	83 J	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	710	90 J	1400	U	120 J	U
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	94 J	U	250 J	U	U	U
Isophorone	4400	U	U	U	U	U	2100
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	U	U	JU	U
Phenanthrene	50000	240 J	U	600	U	U	U
Phenol	30 or MDL	U	U	U	U	JU	JU
Pyrene	50000	680	87 J	1400	U	110 J	U
Total	500000	3149	177	7677	U	383	2240

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	B-2	B-3	B-4	B-5	B-6	B-7
		2-4 ft	58-60 ft	2-4 ft	0-2 ft	2-4 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	JU	U	U	JU	U	JU
2,4,6-Trichlorophenol		JU	U	U	JU	U	JU
2,4-Dichlorophenol	400	JU	U	U	JU	U	JU
2,4-Dimethylphenol		JU	U	U	JU	U	JU
2,4-Dinitrophenol	200 or MDL	JU	U	U	JU	U	JU
2,4-Dinitrotoluene		JU	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	JU	U	U	JU	U	JU
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	JU	U	U	JU	U	JU
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	JU	U	U	JU	U	JU
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		JU	U	U	JU	U	JU
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	JU	U	U	JU	U	JU
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	JU	U	U	JU	U	JU
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	JU	U	U	JU	U	JU
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	U	U	U	72 J	U	U
Benzo(a)pyrene	61 or MDL	U	U	U	U	U	U
Benzo(b)fluoranthene	1100	U	U	U	U	U	U
Benzo(g,h,i)perylene	50000	U	U	U	U	U	U
Benzo(k)fluoranthene	1100	U	U	U	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	U	U	98 J	U	77 J
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	U	U	77 J	U	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	U	140 J	U	110 J
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	U	U
Isophorone	4400	U	U	U	120 J	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	JU	U	U	JU	U	JU
Phenanthrene	50000	U	U	U	79 J	U	U
Phenol	30 or MDL	JU	U	U	JU	U	JU
Pyrene	50000	U	U	U	130 J	U	95 J
Total	500000	U	U	U	716	U	282

1: New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	B-8	B-9	B-10	B-11	C-1	C-2	C-3
		0-2 ft	4-6 ft	0-2 ft	0-2 ft	0-2 ft	2-4 ft	2-4 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	JU	U	U	U
2,4,6-Trichlorophenol		U	U	U	JU	U	U	U
2,4-Dichlorophenol	400	U	U	U	JU	U	U	U
2,4-Dimethylphenol		U	U	U	JU	U	U	U
2,4-Dinitrophenol	200 or MDL	U	U	U	JU	U	U	U
2,4-Dinitrotoluene		U	U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	JU	U	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	U	JU	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	JU	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	JU	U	U	U
4-Bromophenyl-phenylether		U	U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	JU	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U	U
4-Methylphenol	900	U	U	U	JU	U	U	U
4-Nitroaniline		U	U	U	U	U	U	
4-Nitrophenol	100 or MDL	U	U	U	JU	U	U	
Acenaphthene	50000	U	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	U	U	U	U	160 J	U	U
Benzo(a)pyrene	61 or MDL	U	U	U	U	190 J	U	U
Benzo(b)fluoranthene	1100	U	U	U	U	190 J	U	U
Benzo(g,h,i)perylene	50000	U	U	U	U	160 J	U	U
Benzo(k)fluoranthene	1100	U	U	U	U	210 J	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	160 J	U	U	280 J	U	92 J
Butyl benzyl phthlate	50000	U	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U	U
Chrysene	400	U	U	U	U	190 J	U	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U	U
Fluoranthene	50000	U	U	110 J	U	360	U	U
Fluorene	50000	U	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	160 J	U	U
Isophorone	4400	U	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	U	JU	U	U	U
Phenanthrene	50000	U	U	U	U	140 J	U	U
Phenol	30 or MDL	U	U	U	JU	U	U	U
Pyrene	50000	U	U	87 J	U	290 J	U	U
Total	500000	U	160	197		2330	U	92

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	C-4	C-5	C-6	C-7	C-8	C-9
		2-4 ft	2-4 ft	2-4 ft	0-2 ft	0-2 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	U	U	U	U	U
2,4-Dichlorophenol	400	U	U	U	U	U	U
2,4-Dimethylphenol		U	U	U	U	U	U
2,4-Dinitrophenol	200 or MDL	U	U	U	U	U	U
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	U	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	U	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U	U	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	U	U	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	U	U	U	U
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	190 J	U
Benzo(a)anthracene	224 or MDL	U	U	150 J	**300** J	**720**	U
Benzo(a)pyrene	61 or MDL	U	U	**130** J	**230** J	**450**	U
Benzo(b)fluoranthene	1100	U	110 J	190 J	370	730	U
Benzo(g,h,i)perylene	50000	U	U	U	69 J	160 J	U
Benzo(k)fluoranthene	1100	U	U	U	110 J	240 J	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		UJ	U	U	U	U	U
bis(2-ethylhexyl)phthalate		100 J	180 J	U	87 J	120 J	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	76 J	83 J	150 J	330 J	**730**	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	79 J	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	110 J	120 J	300 J	590	1500	U
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	80 J	190 J	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	U	U	U	U
Phenanthrene	50000	U	U	200 J	220 J	1000	U
Phenol	30 or MDL	U	U	U	U	370 U	U
Pyrene	50000	110 J	110 J	270 J	550	1100	U
Total	500000	396	603	1390	2936	7579	U

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	C-10	C-11	C-12	D-1	D-2	D-3
		0-2 ft	0-2 ft	0-2 ft	4-6 ft	2-4 ft	28-30 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	U	U	U	U	U
2,4-Dichlorophenol	400	U	U	U	U	U	U
2,4-Dimethylphenol		U	U	U	U	U	U
2,4-Dinitrophenol	200 or MDL	U	U	U	U	U	U
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	U	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	U	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U	U	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	U	U	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	U	U	U	U
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	97 J	U
Benzo(a)anthracene	224 or MDL	U	U	U	U	**540**	U
Benzo(a)pyrene	61 or MDL	U	U	U	U	**580**	U
Benzo(b)fluoranthene	1100	U	U	U	U	830	U
Benzo(g,h,i)perylene	50000	U	U	U	U	200 J	U
Benzo(k)fluoranthene	1100	U	U	U	U	300 J	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	U	U	U	92 J	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	71 J	U
Chrysene	400	U	U	U	U	**570**	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	80 J	110 J	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	U	U	1000	U
Fluorene	50000	U	U	110 J	U	U	U
Hexachlorobenzene	410	U	U	280 J	U	U	U
Hexachlorobutadiene		U	U	270 J	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	130 J	U	220 J	U
Isophorone	4400	U	U	190 J	U	U	U
Naphthalene	13000	U	U	190 J	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	280 J	U	U	U
N-Nitrosodiphenylamine		U	U	110 J	U	U	U
Pentachlorophenol	1000 or MDL	U	U	190 J	U	U	U
Phenanthrene	50000	U	U	100 J	U	480	U
Phenol	30 or MDL	U	U	U	U	U	U
Pyrene	50000	U	U	110 J	U	940	U
Total	500000	U	80	2070	U	5920	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	D-4	D-5	D-6	D-7	D-8	D-9
		2-4 ft	2-4 ft	2-4 ft	28-30 ft	0-2 ft	48-50 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	U	U	U	U	U
2,4-Dichlorophenol	400	U	U	U	U	U	U
2,4-Dimethylphenol		U	U	U	U	U	U
2,4-Dinitrophenol	200 or MDL	U	U	U	U	U	U
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	U	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	U	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U	U	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	U	U	U	U
-Nitroaniline		U	U	U	U	U	U
-Nitrophenol	100 or MDL	U	U	U	U	U	U
Acenaphthene	50000	J	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	470	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	**960**	100 J	150 J	U	83 J	U
Benzo(a)pyrene	61 or MDL	**710**	**91** J	**140** J	U	**80** J	U
Benzo(b)fluoranthene	1100	840	140 J	200 J	U	120 J	U
Benzo(g,h,i)perylene	50000	250 J	U	U	U	U	U
Benzo(k)fluoranthene	1100	320 J	U	U	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	87 J	U	180 J	190 J	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		250 J	U	U	U	U	U
Chrysene	400	**780**	98 J	140 J	U	88 J	U
Dibenz(a,h)anthracene	14 or MDL	**95** J	U	U	U	U	U
Dibenzofuran	6200	150 J	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	2000	200 J	210 J	U	160 J	U
Fluorene	50000	240 J	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	290 J	U	U	U	U	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	130 J	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	U	U	U	U
Phenanthrene	50000	1900	120 J	U	U	U	U
Phenol	30 or MDL	U	U	U	U	U	U
Pyrene	50000	1700	180 J	220 J	U	140 J	U
Total	500000	11085	1016	1060	180	861	U

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	D-10	D-11	D-12	E-1	E-2	E-3
		0-2 ft	4-6 ft	2-4 ft	2-4 ft	2-4 ft	4-6 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	JU	JU	U	U	U
2,4,6-Trichlorophenol		U	JU	JU	U	U	U
2,4-Dichlorophenol	400	U	JU	JU	U	U	U
2,4-Dimethylphenol		U	JU	JU	U	U	U
2,4-Dinitrophenol	200 or MDL	U	JU	JU	U	U	U
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	JU	JU	U	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	JU	JU	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	JU	JU	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	JU	JU	U	U	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	JU	JU	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	JU	JU	U	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	JU	JU	U	U	U
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	76 J	U
Benzo(a)anthracene	224 or MDL	U	U	U	U	**240** J	86 J
Benzo(a)pyrene	61 or MDL	U	U	U	U	**200** J	**81** J
Benzo(b)fluoranthene	1100	U	U	U	U	280 J	120 J
Benzo(g,h,i)perylene	50000	U	U	U	U	U	U
Benzo(k)fluoranthene	1100	U	U	U	U	120 J	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		120 J	U	U	U	U	U
Butyl benzyl phthlate	50000	U	U	U	U	78 J	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	U	U	U	230 J	97 J
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	85 J	U	U	U	450	160 J
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	U	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	JU	JU	U	U	U
Phenanthrene	50000	U	U	U	U	300 J	100 J
Phenol	30 or MDL	U	JU	JU	U	U	U
Pyrene	50000	U	U	U	U	430	150 J
Total	500000	205	U	U	U	2404	794

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	E-4	E-5	E-6	E-7	E-8	E-9
		2-4 ft	2-4 ft	2-4 ft	0-2 ft	8-10 ft	6-8 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	U	U	U	U	U
2,4-Dichlorophenol	400	U	U	U	U	U	U
2,4-Dimethylphenol		U	U	U	U	U	U
2,4-Dinitrophenol	200 or MDL	U	U	U	U	U	U
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	U	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	U	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U	U	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	U	U	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	U	U	U	U
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	92 J	U	U	U	U
Benzo(a)anthracene	224 or MDL	**330** J	**230** J	U	U	U	U
Benzo(a)pyrene	61 or MDL	**370**	**190** J	U	U	U	U
Benzo(b)fluoranthene	1100	470	250 J	U	U	U	U
Benzo(g,h,i)perylene	50000	170 J	U	U	U	U	U
Benzo(k)fluoranthene	1100	200 J	100 J	U	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	110 J	U	440	U	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	370	210 J	U	U	U	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	470	450	U	U	U	U
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	170 J	75 J	U	U	U	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	U	U	U	U
Phenanthrene	50000	190 J	380	U	U	U	U
Phenol	30 or MDL	U	U	U	U	U	U
Pyrene	50000	450	390	U	U	U	U
Total	500000	3190	2477	U	440	U	U

1: New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	E-10	E-11	E-13	F-1	F-2	F-3
		0-2 ft	2-4 ft	2-4 ft	18-20 ft	2-4 ft	8-10 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	JU	JU	U	JU
2,4,6-Trichlorophenol		U	U	JU	JU	U	JU
2,4-Dichlorophenol	400	U	U	JU	JU	U	JU
2,4-Dimethylphenol		U	U	JU	JU	U	JU
2,4-Dinitrophenol	200 or MDL	U	U	JU	JU	U	JU
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	JU	JU	U	JU
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	JU	JU	U	JU
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	JU	JU	U	JU
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	JU	JU	U	JU
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	JU	JU	U	JU
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	JU	JU	U	JU
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	JU	JU	U	JU
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	U	U	U	U	**240** J	U
Benzo(a)pyrene	61 or MDL	U	U	U	U	**210** J	U
Benzo(b)fluoranthene	1100	U	U	U	U	230 J	U
Benzo(g,h,i)perylene	50000	U	U	U	U	140 J	U
Benzo(k)fluoranthene	1100	U	U	U	U	220 J	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		72 J	U	83 J	140 J	91 J	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	U	U	U	260 J	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	110 J	U	U	U	500	U
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	150 J	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	JU	JU	U	JU
Phenanthrene	50000	U	U	U	U	310 J	U
Phenol	30 or MDL	U	U	JU	JU	U	JU
Pyrene	50000	110 J	U	U	U	420	U
Total	500000	292	U	83	140	2771	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	F-4	F-5	F-6	F-7	F-8	F-9
		2-4 ft	2-4 ft	2-4 ft	2-4 ft	0-2	6-8 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	JU	U	JU
2,4,6-Trichlorophenol		U	U	U	JU	U	JU
2,4-Dichlorophenol	400	U	U	U	JU	U	JU
2,4-Dimethylphenol		U	U	U	JU	U	JU
2,4-Dinitrophenol	200 or MDL	U	U	U	JU	U	JU
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	JU	U	JU
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	U	JU	U	JU
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	JU	U	JU
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	JU	U	JU
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	JU	U	JU
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	U	JU	U	JU
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	U	JU	U	JU
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	U	U	U	U	U	U
Benzo(a)pyrene	61 or MDL	U	U	U	U	U	U
Benzo(b)fluoranthene	1100	U	U	U	U	U	U
Benzo(g,h,i)perylene	50000	U	U	U	U	U	U
Benzo(k)fluoranthene	1100	U	U	U	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	U	U	U	U	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	U	U	72 J	U	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	73 J	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	U	U	U	U
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	U	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	U	JU	U	JU
Phenanthrene	50000	U	U	U	U	U	U
Phenol	30 or MDL	U	U	U	U	U	U
Pyrene	50000	U	U	U	78 J	U	U
Total	500000	U	U	U	223	U	U

1: New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	F-10	F-11	F-11	F-13	G-1	G-2
		2-4 ft	4-6 ft	6-8 ft	0-2 ft	4-6 ft	2-4 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	JU	U	U	JU	U	U
2,4,6-Trichlorophenol		JU	U	U	JU	U	U
2,4-Dichlorophenol	400	JU	U	U	JU	U	U
2,4-Dimethylphenol		JU	U	U	JU	U	U
2,4-Dinitrophenol	200 or MDL	JU	U	U	JU	U	U
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	JU	U	U	JU	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	JU	U	U	JU	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	JU	U	U	JU	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		JU	U	U	JU	U	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	JU	U	U	JU	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	JU	U	U	JU	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	JU	U	U	JU	U	U
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	U	U	U	U	100 J	95 J
Benzo(a)pyrene	61 or MDL	U	U	U	U	**100** J	**80** J
Benzo(b)fluoranthene	1100	U	U	U	U	120 J	U
Benzo(g,h,i)perylene	50000	U	U	U	U	79 J	U
Benzo(k)fluoranthene	1100	U	U	U	U	110 J	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	U	100 J	U	93 J	460
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	U	U	U	120 J	110 J
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	89 J	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	170 J	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	U	U	190 J	210 J
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	77 J	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	JU	U	U	JU	U	U
Phenanthrene	50000	U	U	U	U	96 J	130 J
Phenol	30 or MDL	U	U	U	JU	U	U
Pyrene	50000	U	U	U	U	170 J	170 J
Total	500000	U	U	359	U	1255	1255

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	G-3	G-4	G-4	G-4	G-5	G-6
		8-10 ft	2-4 ft	8-10 ft	12-14	2-4 ft	2-4 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U		U	U
1,2-Dichlorobenzene		U	U	U		U	U
1,3-Dichlorobenzene	1600	U	U	U		U	U
1,4-Dichlorobenzene	8500	U	U	U		U	U
2,2'-oxybis(1-chloropropane)		U	U	U		U	U
2,4,5-Trichlorophenol	100	JU	JU	JU		U	U
2,4,6-Trichlorophenol		JU	JU	JU		U	U
2,4-Dichlorophenol	400	JU	JU	JU		U	U
2,4-Dimethylphenol		JU	JU	JU		U	U
2,4-Dinitrophenol	200 or MDL	JU	JU	JU		U	U
2,4-Dinitrotoluene		U	U	JU		U	U
2,6 Dinitrotoluene	1000	U	U	JU		U	U
2-Chloronaphthalene		U	U	JU		U	U
2-Chlorophenol	800	JU	JU	JU		U	U
2-Methylnaphthalene	36400	330 J	440	500		U	350 J
2-Methylphenol	100 or MDL	JU	JU	**110** J		U	U
2-Nitroaniline	430 or MDL	U	U	JU		U	U
2-Nitrophenol	330 or MDL	JU	JU	JU		U	U
3,3'-Dichlorobenzidine		U	U	JRU		U	U
3-Nitroaniline	500 or MDL	U	U	JU		U	U
4,6-Dinitro-2-methylphenol		JU	JU	JU		U	U
4-Bromophenyl-phenylether		U	U	JU		U	U
4-Chloro-3-methylphenol	240 or MDL	JU	JU	JU		U	U
4- Chloroaniline	220 or MDL	U	U	U		U	U
4-Chlorophenyl-phenylether		U	U	JU		U	U
4-Methylphenol	900	JU	JU	**2100** J		U	90 J
Nitroaniline		U	U	JU		U	U
Nitrophenol	100 or MDL	JU	JU	JU		U	U
Acenaphthene	50000	U	U	650 J		U	2300
Acenaphthylene	41000	U	U	JU		U	850
Anthracene	50000	U	U	530 J		U	15000 D
Benzo(a)anthracene	224 or MDL	U	U	**790** J		U	**62000** D
Benzo(a)pyrene	61 or MDL	U	U	**1300** J		U	**43000** D
Benzo(b)fluoranthene	1100	U	U	**1100** J		U	**50000** D
Benzo(g,h,i)perylene	50000	U	U	770 J		U	24000 D
Benzo(k)fluoranthene	1100	U	U	**1200** J		U	**34000** D
bis(2-Chloroethoxy)methane		U	U	U		U	U
bis(2-chloroethyl)ether		U	U	U		U	U
bis(2-ethylhexyl)phthalate	1200	95 J	85000 JD			U	320 J
Butyl benzyl phthlate	50000	U	U	JRU		U	380 U
Carbazole		U	U	260 J		U	8000 D
Chrysene	400	U	93 J	**2300** J		U	**57000** D
Dibenz(a,h)anthracene	14 or MDL	U	U	**430** J		U	**14000** D
Dibenzofuran	6200	U	110 J	740 J		U	1900
Diethylphthlate	7100	U	U	JU		U	U
Dimethylphthlate	2000	U	U	JU		U	U
Di-n-butyl phthalate	8100	U	U	JU		U	U
Di-n-octyl phthlate	50000	U	U	JU		U	U
Fluoranthene	50000	U	210 J	3700 J		U	**120000** D
Fluorene	50000	U	U	1100 J		U	4700
Hexachlorobenzene	410	U	U	JU		U	U
Hexachlorobutadiene		U	U	U		U	U
Hexachlorocyclopentadiene		U	U	JU		U	U
Hexachloroethane		U	U	U		U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	930 J		U	**27000** D
Isophorone	4400	U	U	U		U	U
Naphthalene	13000	98 J	260 J	720		U	420
Nitrobenzene	200 or MDL	U	U	U		U	U
N-Nitroso-di-n-propylamine		U	U	U		U	U
N-Nitrosodiphenylamine		U	U	JU		U	U
Pentachlorophenol	1000 or MDL	JU	JU	JU		U	U
Phenanthrene	50000	130 J	440	4800 J		U	**60000** D
Phenol	30 or MDL	JU	U	JU		U	U
Pyrene	50000	U	220 J	4200 J		U	**110000** D
Total	500000	1758	1868	112620		U	**635310**

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	G-7	G-8	G-9	G-10	G-11	G-14
		0-2	0-2 ft	8-10 ft	2-4 ft	4-6 ft	2-4 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	JU	JU	JU	U	JU
2,4,6-Trichlorophenol		U	JU	JU	JU	U	JU
2,4-Dichlorophenol	400	U	JU	JU	JU	U	JU
2,4-Dimethylphenol		U	JU	JU	JU	U	JU
2,4-Dinitrophenol	200 or MDL	U	JU	JU	JU	U	JU
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	JU	JU	JU	U	JU
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	JU	JU	JU	U	JU
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	JU	JU	JU	U	JU
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	JU	JU	JU	U	JU
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	JU	JU	JU	U	JU
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	JU	JU	83 J	U	JU
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	JU	JU	JU	U	JU
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	U	U	U	U	U	U
Benzo(a)pyrene	61 or MDL	U	U	U	U	U	U
Benzo(b)fluoranthene	1100	U	U	U	U	U	U
Benzo(g,h,i)perylene	50000	U	U	U	U	U	U
Benzo(k)fluoranthene	1100	U	U	U	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	94 J	U	76 J	U	120 J
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	U	U	U	U	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	U	U	U	U
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	U	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	JU	JU	JU	U	JU
Phenanthrene	50000	U	U	U	U	U	U
Phenol	30 or MDL	U	U	U	U	U	JU
Pyrene	50000	U	U	U	U	U	U
Total	500000	U	94	U	159	U	120

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	H-1	H-2	H-3	H-3	H-4	H-5
		0-2 ft	2-4 ft	2-4 ft	4-6 ft	2-4 ft	2-4 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	U	JU	U
2,4,6-Trichlorophenol		U	U	U	U	JU	U
2,4-Dichlorophenol	400	U	U	U	U	JU	U
2,4-Dimethylphenol		U	U	U	U	JU	U
2,4-Dinitrophenol	200 or MDL	U	U	U	U	JU	U
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	U	JU	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	U	U	JU	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	U	JU	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U	JU	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	U	JU	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	U	U	JU	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	U	U	JU	U
Acenaphthene	50000	97 J	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	150 J	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	**650**	U	U	U	U	U
Benzo(a)pyrene	61 or MDL	**620**	U	U	U	U	U
Benzo(b)fluoranthene	1100	630	U	U	U	U	U
Benzo(g,h,i)perylene	50000	440	U	U	U	U	U
Benzo(k)fluoranthene	1100	660	U	U	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		230 J	U	110 J	71 J	150 J	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		140 J	U	U	U	U	U
Chrysene	400	**790**	U	U	U	U	U
Dibenz(a,h)anthracene	14 or MDL	200 J	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	1400	U	U	U	U	U
Fluorene	50000	71 J	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	430	U	U	U	U	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	U	U	JU	U
Phenanthrene	50000	850	U	U	U	U	U
Phenol	30 or MDL	U	U	U	U	JU	U
Pyrene	50000	1200	U	U	U	U	U
Total	500000	8558	U	110	71	150	U

1: New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	H-6	H-7	H-7	H-8	H-9	H-10
		2-4 ft	0-2 ft	48-50 ft	0-2 ft	18-20 ft	4-6 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	JU	JU	JU	U	U	JU
2,4,6-Trichlorophenol		JU	JU	JU	U	U	JU
2,4-Dichlorophenol	400	JU	JU	JU	U	U	JU
2,4-Dimethylphenol		JU	JU	JU	U	U	JU
2,4-Dinitrophenol	200 or MDL	JU	JU	JU	U	U	JU
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	JU	JU	JU	U	U	JU
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	JU	JU	JU	U	U	JU
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	JU	U	JU	U	U	JU
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		JU	JU	JU	U	U	JU
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	JU	JU	JU	U	U	JU
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	JU	JU	JU	U	U	JU
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	JU	JU	JU	U	U	JU
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	U	U	U	U	U	U
Benzo(a)pyrene	61 or MDL	U	U	U	U	U	U
Benzo(b)fluoranthene	1100	U	U	U	U	U	U
Benzo(g,h,i)perylene	50000	U	U	U	U	U	U
Benzo(k)fluoranthene	1100	U	U	U	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	U	81 J	U	U	71 J
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	U	U	U	U	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	91 J	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	U	U	U	70 J
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	U	U
Isophorone	4400	U	U	U	U	U	93 J
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	JU	JU	JU	U	U	JU
Phenanthrene	50000	U	U	U	U	U	U
Phenol	30 or MDL	JU	JU	JU	U	U	JU
Pyrene	50000	U	U	U	U	U	U
Total	500000	U	U	81	91	U	234

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	H-12	H-13	H-14	I-1	I-1	I-2
		2-4 ft	58-60 ft	6-8 ft	4-6 ft	18-20 ft	2-4 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	1900	3900	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	JU	JU	U	U	U	U
2,4,6-Trichlorophenol		JU	JU	U	U	U	U
2,4-Dichlorophenol	400	JU	JU	U	U	U	U
2,4-Dimethylphenol		JU	JU	U	490	U	U
2,4-Dinitrophenol	200 or MDL	JU	JU	U	U	U	U
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	JU	JU	U	U	U	U
2-Methylnaphthalene	36400	U	U	U	970	710	430
2-Methylphenol	100 or MDL	JU	JU	U	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	JU	JU	U	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		JU	JU	U	U	U	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	JU	JU	U	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	JU	JU	U	**1500**	280 J	390
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	JU	JU	U	U	U	U
Acenaphthene	50000	U	U	U	110 J	U	140 J
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	94 J	U	110 J
Benzo(a)anthracene	224 or MDL	U	U	U	**380**	190 J	U
Benzo(a)pyrene	61 or MDL	U	U	U	**290** J	**170** J	**460**
Benzo(b)fluoranthene	1100	U	U	U	550	350 J	880
Benzo(g,h,i)perylene	50000	U	U	U	290 J	160 J	510
Benzo(k)fluoranthene	1100	U	U	U	470	290 J	590
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	UJ	U	U	U
bis(2-ethylhexyl)phthalate		U	U	U	1900	14000 D	1500
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	83 J	U	U
Chrysene	400	U	U	U	**610**	390 J	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	**170** J	**88** J	**250** J
Dibenzofuran	6200	U	U	U	120 J	U	100 J
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	U	850	380 J	990
Fluorene	50000	U	U	U	190 J	150 J	170 J
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	320 J	150 J	520
Isophorone	4400	U	U	U	U	400 U	U
Naphthalene	13000	U	U	U	470	300 J	300 J
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	JU	JU	U	U	U	U
Phenanthrene	50000	U	U	U	1000	650	820
Phenol	30 or MDL	JU	JU	U	U	U	U
Pyrene	50000	U	U	U	830	470	1100
Total	500000	U	U	U	13587	23028	9260

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	I-3	I-4	I-5	I-6	I-7	I-8
		2-4 ft	2-4 ft	2-4 ft	2-4 ft	6-8 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	U	U	U	U	U
2,4-Dichlorophenol	400	U	U	U	U	U	U
2,4-Dimethylphenol		U	U	U	U	U	U
2,4-Dinitrophenol	200 or MDL	U	U	U	U	U	UJ
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	U	UJ	U
2-Methylnaphthalene	36400	U	U	U	U	U	120 J
2-Methylphenol	100 or MDL	U	U	U	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U	U	UJ
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	U	U	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	U	U	U	U
Acenaphthene	50000	U	U	U	U	U	500
Acenaphthylene	41000	U	U	U	U	U	70 J
Anthracene	50000	U	U	U	U	U	540
Benzo(a)anthracene	224 or MDL	U	U	U	U	U	**1600**
Benzo(a)pyrene	61 or MDL	U	U	U	U	U	**1400**
Benzo(b)fluoranthene	1100	U	U	U	U	U	**1500**
Benzo(g,h,i)perylene	50000	U	U	U	U	U	150 J
Benzo(k)fluoranthene	1100	U	U	U	U	U	**1600**
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U	U
bis(2-ethylhexyl)phthalate		88 J	U	U	U	U	920
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	460
Chrysene	400	U	U	U	U	U	**1800**
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	190 J
Dibenzofuran	6200	U	U	U	U	U	400
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	98 J
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	U	U	U	3300
Fluorene	50000	U	U	U	U	U	790
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	U	420
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	270 J
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	U	U	U	U
Phenanthrene	50000	U	U	U	U	U	2700
Phenol	30 or MDL	U	U	U	U	U	U
Pyrene	50000	U	U	U	U	U	2500
Total	500000	88	U	U	U	U	21328

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	I-9	I-10	I-10	I-10	I-11	I-12
		6-8 ft	2-4 ft	4-6 ft	6-8 ft	6-8 ft	6-8 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	U	U	R
2,4,6-Trichlorophenol		U	U	U	U	U	R
2,4-Dichlorophenol	400	U	U	U	U	U	R
2,4-Dimethylphenol		U	U	U	U	U	R
2,4-Dinitrophenol	200 or MDL	U	U	U	U	U	R
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	U	U	R
2-Methylnaphthalene	36400	U	U	460	340 J	U	R
2-Methylphenol	100 or MDL	U	U	U	U	U	R
2-Nitroaniline	430 or MDL	U	U	U	U	U	R
2-Nitrophenol	330 or MDL	U	U	U	U	U	R
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	R
4,6-Dinitro-2-methylphenol		U	U	U	U	U	R
4-Bromophenyl-phenylether		U	U	U	U	U	R
4-Chloro-3-methylphenol	240 or MDL	U	U	U	U	U	R
4- Chloroaniline	220 or MDL	U	U	U	U	U	R
4-Chlorophenyl-phenylether		U	U	U	U	U	R
4-Methylphenol	900	U	U	U	U	U	R
'-Nitroaniline		U	U	U	U	U	R
-Nitrophenol	100 or MDL	U	U	U	U	U	R
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	U	U	U	U	U	U
Benzo(a)pyrene	61 or MDL	U	U	U	U	U	U
Benzo(b)fluoranthene	1100	U	U	U	U	U	U
Benzo(g,h,i)perylene	50000	U	U	U	U	U	U
Benzo(k)fluoranthene	1100	U	U	U	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		UJ	UJ	UJ	UJ	UJ	UJ
bis(2-ethylhexyl)phthalate		U	110 J	2700	3600	U	91 J
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	U	U	U	U	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	80 J	160 J	U	U
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	U	U
Isophorone	4400	300 J	U	U	U	190 J	U
Naphthalene	13000	U	U	98 J	100 J	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	UJ	U	U	R	R
Phenanthrene	50000	U	U	99 J	210 J	U	U
Phenol	30 or MDL	U	U	U	U	U	R
Pyrene	50000	U	U	100 J	130 J	U	U
Total	500000	300	110	3537	4540	190	91

: New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.
R – Analytical result not considered usable by data validator due to low surrogate compound recovery during laboratory analysis.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	J-1	J-2	J-3	J-4	J-5
		48-50 ft	8-10 ft	58-60 ft	0-2 ft	8-10 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	JU	U	U
2,4,6-Trichlorophenol		U	U	JU	U	U
2,4-Dichlorophenol	400	U	U	JU	U	U
2,4-Dimethylphenol		U	U	JU	U	U
2,4-Dinitrophenol	200 or MDL	U	U	JU	U	U
2,4-Dinitrotoluene		U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U
2-Chlorophenol	800	U	U	JU	U	U
2-Methylnaphthalene	36400	U	290 J	U	160 J	U
2-Methylphenol	100 or MDL	U	U	JU	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	JU	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	JU	U	U
4-Bromophenyl-phenylether		U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	JU	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U
4-Methylphenol	900	U	110 J	JU	U	U
4-Nitroaniline		U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	JU	U	U
Acenaphthene	50000	U	240 J	U	150 J	U
Acenaphthylene	41000	U	U	U	U	U
Anthracene	50000	U	310 J	U	320 J	U
Benzo(a)anthracene	224 or MDL	U	**920**	U	**1200**	U
Benzo(a)pyrene	61 or MDL	U	**630**	U	**1300**	U
Benzo(b)fluoranthene	1100	U	760	U	**1400**	U
Benzo(g,h,i)perylene	50000	U	480	U	610	U
Benzo(k)fluoranthene	1100	U	690	U	**1100**	U
bis(2-Chloroethoxy)methane		U	U	U	U	U
bis(2-chloroethyl)ether		U	U	U	U	U
bis(2-ethylhexyl)phthalate		U	300 J	U	340 J	U
Butyl benzyl phthlate	50000	U	U	U	U	U
Carbazole		U	160 J	U	140 J	U
Chrysene	400	U	**960**	U	**1400**	U
Dibenz(a,h)anthracene	14 or MDL	U	**270** J	U	**300** J	U
Dibenzofuran	6200	U	130 J	U	140 J	U
Diethylphthlate	7100	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U
Fluoranthene	50000	U	1600	U	1900	U
Fluorene	50000	U	240 J	U	180 J	U
Hexachlorobenzene	410	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U
Hexachloroethane		U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	560	U	750	U
Isophorone	4400	U	U	U	U	U
Naphthalene	13000	U	250 J	U	330 J	U
Nitrobenzene	200 or MDL	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	JU	U	U
Phenanthrene	50000	U	1500	U	1400	U
Phenol	30 or MDL	U	U	JU	U	U
Pyrene	50000	U	1600	U	1900	U
Total	500000	U	12000	U	15020	U

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	J-6	J-7	J-8	J-9	J-10	K-4
		2-4 ft	0-2 ft	0-2 ft	6-8 ft	0-2 ft	8-10 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	JU	U	R	U	U	U
2,4,6-Trichlorophenol		JU	U	R	U	U	U
2,4-Dichlorophenol	400	JU	U	R	U	U	U
2,4-Dimethylphenol		U	U	R	U	U	U
2,4-Dinitrophenol	200 or MDL	JU	U	R	U	UJ	UJ
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	JU	U	R	U	U	U
2-Methylnaphthalene	36400	130 J	U	U	U	U	U
2-Methylphenol	100 or MDL	JU	U	R	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	JU	U	R	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		JU	U	R	U	UJ	UJ
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	JU	U	R	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	JU	U	R	U	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	JU	U	R	U	U	U
Acenaphthene	50000	130 J	U	140 J	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	360 J	U	390	U	U	U
Benzo(a)anthracene	224 or MDL	**2700**	110 J	**710**	U	U	U
Benzo(a)pyrene	61 or MDL	**3100**	**110** J	**570**	U	U	U
Benzo(b)fluoranthene	1100	**3000**	160 J	760	U	U	U
Benzo(g,h,i)perylene	50000	2500	U	81 J	U	U	U
Benzo(k)fluoranthene	1100	**2600**	U	280 J	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	UJ	UJ	U	UJ
bis(2-ethylhexyl)phthalate		290 J	93 J	220 J	75 J	U	130 J
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		150 J	U	210 J	U	U	U
Chrysene	400	**2800**	110 J	**750**	U	U	U
Dibenz(a,h)anthracene	14 or MDL	**900**	U	U	U	U	U
Dibenzofuran	6200	180 J	U	310 J	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	96 J	U	95 J	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	3000	150 J	1500	U	U	U
Fluorene	50000	140 J	U	590	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	2600	U	180 J	U	U	U
Isophorone	4400	U	150 J	71 J	U	620	U
Naphthalene	13000	390 J	U	96 J	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	JU	U	R	UJ	U	U
Phenanthrene	50000	1400	81 J	2000	U	U	U
Phenol	30 or MDL	JU	U	R	U	U	U
Pyrene	50000	3400	190 J	1500	U	U	U
Total	500000	29866	1154	10453	75	620	130

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.

U – Parameter was analyzed but was not detected.

J – Estimated value.

R – Analytical result not considered usable by data validator due to low surrogate compound recovery during laboratory analysis.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	K-5	K-5	K-6	K-6	K-6	K-7
		4-6 ft	8-10 ft	2-4 ft	6-8 ft	8-10 ft	6-8 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	UJ	UJ	U
2,4,5-Trichlorophenol	100	U	U	R	U	U	U
2,4,6-Trichlorophenol		U	U	R	U	U	U
2,4-Dichlorophenol	400	U	U	R	U	U	U
2,4-Dimethylphenol		U	U	R	U	U	U
2,4-Dinitrophenol	200 or MDL	UJ	UJ	R	U	U	UJ
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	R	U	U	U
2-Methylnaphthalene	36400	160 J	U	170 J	U	U	74 J
2-Methylphenol	100 or MDL	U	U	R	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	UJ	UJ	U
2-Nitrophenol	330 or MDL	U	U	R	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		UJ	UJ	R	UJ	UJ	UJ
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	R	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	R	U	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	U	U	U	U
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	96 J	190 J	U	U
Benzo(a)anthracene	224 or MDL	110 J	U	**320** J	**240** J	100 J	77 J
Benzo(a)pyrene	61 or MDL	**82** J	U	**270** J	**130** J	U	**69** J
Benzo(b)fluoranthene	1100	U	U	320 J	100 J	U	U
Benzo(g,h,i)perylene	50000	U	U	U	U	U	U
Benzo(k)fluoranthene	1100	U	U	260 J	94 J	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		UJ	UJ	U	UJ	UJ	U
bis(2-ethylhexyl)phthalate		490	72 J	130 J	110 J	87 J	78 J
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	170 J	U	**400**	290 J	130 J	94 J
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	130 J	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	200 J	74 J	660	440	200 J	180 J
Fluorene	50000	U	U	U	230 J	79 J	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	78 J	U	U	U
Isophorone	4400	U	U	160 J	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	UJ	UJ	U
N-Nitroso-di-n-propylamine		U	U	U	UJ	UJ	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	R	U	U	R0
Phenanthrene	50000	250 J	97 J	540	170 J	130 J	150 J
Phenol	30 or MDL	U	U	R	U	U	U
Pyrene	50000	190 J	77 J	500	550	230 J	130 J
Total	500000	1652	320	3904	2814	956	852

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.
R – Analytical result not considered usable by data validator due to low surrogate compound recovery during laboratory analysis.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	K-8	K-9	L-4	L-5	L-6	L-7
		18-20 ft	6-8 ft	0-2 ft	18-20 ft	0-2 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	UJ	U	U	U
2,4,6-Trichlorophenol		U	U	UJ	U	U	U
2,4-Dichlorophenol	400	U	U	UJ	U	U	U
2,4-Dimethylphenol		U	U	UJ	U	U	U
2,4-Dinitrophenol	200 or MDL	UJ	UJ	UJ	U	UJ	UJ
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	UJ	U	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	UJ	U	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	UJ	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		UJ	UJ	UJ	U	U	UJ
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	UJ	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	UJ	U	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	UJ	U	U	U
Acenaphthene	50000	U	170 J	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	300 J	U	U	U	U
Benzo(a)anthracene	224 or MDL	100 J	**410**	U	U	U	U
Benzo(a)pyrene	61 or MDL	**88** J	**560**	U	U	U	U
Benzo(b)fluoranthene	1100	100 J	590	U	U	U	U
Benzo(g,h,i)perylene	50000	U	120 J	U	U	U	U
Benzo(k)fluoranthene	1100	97 J	480	U	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		U	U	UJ	U	UJ	U
bis(2-ethylhexyl)phthalate		U	U	U	U	U	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	370	U	U	U	U
Chrysene	400	120 J	**480**	U	U	U	U
Dibenz(a,h)anthracene	14 or MDL	U	**99** J	U	U	U	U
Dibenzofuran	6200	U	190 J	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	250 J	1100	U	U	U	U
Fluorene	50000	U	290 J	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	290 J	U	U	U	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	200 J	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	UJ	U	U	R
Phenanthrene	50000	190 J	1300	U	U	U	U
Phenol	30 or MDL	U	U	UJ	U	U	U
Pyrene	50000	190 J	750	U	U	U	U
Total	500000	1135	7699	U	U	U	U

[1]: New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.

U – Parameter was analyzed but was not detected.

J – Estimated value.

R – Analytical result not considered usable by data validator due to low surrogate compound recovery during laboratory analysis.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	L-8	L-9	M-4	M-5	M-6	M-7
		0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	U	U	U	U	U
2,4-Dichlorophenol	400	U	U	U	U	U	U
2,4-Dimethylphenol		U	U	U	U	U	U
2,4-Dinitrophenol	200 or MDL	UJ	U	UJ	UJ	UJ	UJ
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	U	U	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	U	U	U	U
2-Nitroaniline	430 or MDL	U	UJ	U	U	U	U
2-Nitrophenol	330 or MDL	U	U	U	U	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	UJ	U	U	U	U
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	U	U	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	U	U	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	U	U	U	U
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	U
Benzo(a)anthracene	224 or MDL	U	U	160 J	U	U	U
Benzo(a)pyrene	61 or MDL	U	U	**84** J	U	U	U
Benzo(b)fluoranthene	1100	U	U	200 J	U	U	U
Benzo(g,h,i)perylene	50000	U	U	U	U	U	U
Benzo(k)fluoranthene	1100	U	U	100 J	U	U	U
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		UJ	U	UJ	UJ	UJ	UJ
bis(2-ethylhexyl)phthalate		U	U	76 J	U	U	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	U	170 J	U	U	U
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	270 J	U	U	79 J
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	U	U
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	U	U	U	U
Phenanthrene	50000	U	U	110 J	U	U	U
Phenol	30 or MDL	U	U	U	U	U	U
Pyrene	50000	U	U	190 J	U	U	U
Total	500000	U	U	1360	U	U	79

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	M-8	M-9	N-4	N-4	N-5	N-6
		0-2 ft	4-6 ft	0-2 ft	10-12 ft	0-2 ft	0-2 ft
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
1,2,4-Trichlorobenzene	3400	U	U	U	U	U	U
1,2-Dichlorobenzene		U	U	U	U	U	U
1,3-Dichlorobenzene	1600	U	U	U	U	U	U
1,4-Dichlorobenzene	8500	U	U	U	U	U	U
2,2'-oxybis(1-chloropropane)		U	U	U	U	U	U
2,4,5-Trichlorophenol	100	U	U	UJ	UJ	U	U
2,4,6-Trichlorophenol		U	U	UJ	UJ	U	U
2,4-Dichlorophenol	400	U	U	UJ	UJ	U	U
2,4-Dimethylphenol		U	U	UJ	UJ	U	U
2,4-Dinitrophenol	200 or MDL	UJ	UJ	UJ	UJ	U	UJ
2,4-Dinitrotoluene		U	U	U	U	U	U
2,6 Dinitrotoluene	1000	U	U	U	U	U	U
2-Chloronaphthalene		U	U	U	U	U	U
2-Chlorophenol	800	U	U	UJ	UJ	U	U
2-Methylnaphthalene	36400	U	U	U	U	U	U
2-Methylphenol	100 or MDL	U	U	UJ	UJ	U	U
2-Nitroaniline	430 or MDL	U	U	U	U	UJ	U
2-Nitrophenol	330 or MDL	U	U	UJ	UJ	U	U
3,3'-Dichlorobenzidine		U	U	U	U	U	U
3-Nitroaniline	500 or MDL	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	UJ	UJ	UJ	UJ
4-Bromophenyl-phenylether		U	U	U	U	U	U
4-Chloro-3-methylphenol	240 or MDL	U	U	UJ	UJ	U	U
4- Chloroaniline	220 or MDL	U	U	U	U	U	U
4-Chlorophenyl-phenylether		U	U	U	U	U	U
4-Methylphenol	900	U	U	UJ	UJ	U	U
4-Nitroaniline		U	U	U	U	U	U
4-Nitrophenol	100 or MDL	U	U	UJ	UJ	U	U
Acenaphthene	50000	U	U	U	U	U	U
Acenaphthylene	41000	U	U	U	U	U	U
Anthracene	50000	U	U	U	U	U	110 J
Benzo(a)anthracene	224 or MDL	U	U	77 J	U	110 J	**420**
Benzo(a)pyrene	61 or MDL	U	U	**72** J	U	**100** J	**380**
Benzo(b)fluoranthene	1100	U	U	U	U	120 J	420
Benzo(g,h,i)perylene	50000	U	U	U	U	U	U
Benzo(k)fluoranthene	1100	U	U	96 J	U	100 J	340
bis(2-Chloroethoxy)methane		U	U	U	U	U	U
bis(2-chloroethyl)ether		UJ	UJ	U	U	U	UJ
bis(2-ethylhexyl)phthalate		U	U	U	U	910	U
Butyl benzyl phthlate	50000	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U
Chrysene	400	U	U	88 J	U	120 J	**440**
Dibenz(a,h)anthracene	14 or MDL	U	U	U	U	U	U
Dibenzofuran	6200	U	U	U	U	U	U
Diethylphthlate	7100	U	U	U	U	U	U
Dimethylphthlate	2000	U	U	U	U	U	U
Di-n-butyl phthalate	8100	U	U	U	U	U	U
Di-n-octyl phthlate	50000	U	U	U	U	U	U
Fluoranthene	50000	U	U	140 J	69 J	210 J	940
Fluorene	50000	U	U	U	U	U	U
Hexachlorobenzene	410	U	U	U	U	U	U
Hexachlorobutadiene		U	U	U	U	U	U
Hexachlorocyclopentadiene		U	U	U	U	U	U
Hexachloroethane		U	U	U	U	U	U
Indeno (1,2,3-cd)pyrene	3200	U	U	U	U	77 J	170 J
Isophorone	4400	U	U	U	U	U	U
Naphthalene	13000	U	U	U	U	U	U
Nitrobenzene	200 or MDL	U	U	U	U	U	U
N-Nitroso-di-n-propylamine		U	U	U	U	U	U
N-Nitrosodiphenylamine		U	U	U	U	U	U
Pentachlorophenol	1000 or MDL	U	U	UJ	UJ	R	R
Phenanthrene	50000	U	U	87 J	U	79 J	510
Phenol	30 or MDL	U	U	UJ	UJ	U	U
Pyrene	50000	U	U	120 J	U	160 J	730
Total	500000	U	U	680	69	1986	4460

[1]: New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.
R – Analytical result not considered usable by data validator due to low surrogate compound recovery during laboratory analysis.

TABLE 4.2.4 (continued). SEMI-VOLATILE ORGANIC COMPOUND (SVOC) SOIL SAMPLING RESULTS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	N-7		N-8		N-9		N-9	
		0-2 ft		0-2 ft		10-12 ft		58-60 ft	
	(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)	
1,2,4-Trichlorobenzene	3400		U		U		U		U
1,2-Dichlorobenzene			U		U		U		U
1,3-Dichlorobenzene	1600		U		U		U		U
1,4-Dichlorobenzene	8500		U		U		U		U
2,2'-oxybis(1-chloropropane)			U		U		U		U
2,4,5-Trichlorophenol	100		U		U		U		U
2,4,6-Trichlorophenol			U		U		U		U
2,4-Dichlorophenol	400		U		U		U		U
2,4-Dimethylphenol			U		U		U		U
2,4-Dinitrophenol	200 or MDL		U		UJ		UJ		UJ
2,4-Dinitrotoluene			U		U		U		U
2,6 Dinitrotoluene	1000		U		U		U		U
2-Chloronaphthalene			U		U		U		U
2-Chlorophenol	800		U		U		U		U
2-Methylnaphthalene	36400		U		U		U		U
2-Methylphenol	100 or MDL		U		U		U		U
2-Nitroaniline	430 or MDL		U		U		U		U
2-Nitrophenol	330 or MDL		U		U		U		U
3,3'-Dichlorobenzidine			U		U		U		U
3-Nitroaniline	500 or MDL		U		U		U		U
4,6-Dinitro-2-methylphenol			U		U		U		U
4-Bromophenyl-phenylether			U		U		U		U
4-Chloro-3-methylphenol	240 or MDL		U		U		U		U
4- Chloroaniline	220 or MDL		U		U		U		U
4-Chlorophenyl-phenylether			U		U		U		U
4-Methylphenol	900		U		U		U		U
4-Nitroaniline			U		U		U		U
4-Nitrophenol	100 or MDL		U		U		U		U
Acenaphthene	50000		U		U		U		U
Acenaphthylene	41000		U	91	J		U		U
Anthracene	50000		U	330	J		U		U
Benzo(a)anthracene	224 or MDL	210	J	**1200**		210	J		U
Benzo(a)pyrene	61 or MDL	**160**	J	**450**		**120**	J		U
Benzo(b)fluoranthene	1100	230	J	1100		350			U
Benzo(g,h,i)perylene	50000		UJ		U		U		U
Benzo(k)fluoranthene	1100	89	J	440		100	J		U
bis(2-Chloroethoxy)methane			U		U		U		U
bis(2-chloroethyl)ether			UJ		UJ		UJ		UJ
bis(2-ethylhexyl)phthalate		94	J		U	240	J		U
Butyl benzyl phthlate	50000		U		U		U		U
Carbazole			U		U		U		U
Chrysene	400	210	J	**1200**		280	J		U
Dibenz(a,h)anthracene	14 or MDL		UJ	**130**	J		U		U
Dibenzofuran	6200		U		U		U		U
Diethylphthlate	7100		U		U		U		U
Dimethylphthlate	2000		U		U		U		U
Di-n-butyl phthalate	8100		U		U		U		U
Di-n-octyl phthlate	50000		UJ		U		U		U
Fluoranthene	50000	290	J	2100		410			U
Fluorene	50000		U		U	79	J		U
Hexachlorobenzene	410		U		U		U		U
Hexachlorobutadiene			U		U		U		U
Hexachlorocyclopentadiene			U		U		U		U
Hexachloroethane			U		U		U		U
Indeno (1,2,3-cd)pyrene	3200		UJ	190	J		U		U
Isophorone	4400		U		U		U		U
Naphthalene	13000		U		U		U		U
Nitrobenzene	200 or MDL		U		U		U		U
N-Nitroso-di-n-propylamine			U		U		U		U
N-Nitrosodiphenylamine			U		U		U		U
Pentachlorophenol	1000 or MDL		U		U		U		U
Phenanthrene	50000	210	J	1800		410			U
Phenol	30 or MDL		U		U		U		U
Pyrene	50000	410		1800		390			U
Total	500000	1903		10831		2589			

(1): New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
U – Parameter was analyzed but was not detected.
J – Estimated value.

TABLE 4.3.1. VOLATILE ORGANIC COMPOUND (VOC) SOIL VAPOR SAMPLING RESULTS

Parameter	Samples Collected on 6-10-2005	D-1		D-1		E-3		E-5		E-13	
	Ambient 6-10-2005	8-10 ft		58-60 ft		8-10 ft		8-10 ft		8-10 ft	
	(µg/m³)	(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)	
1,1,1-Trichloroethane	U	11		17	J	24		45			U
1,1,2,2-Tetrachloroethane	U		U		U		U		U		U
1,1,2-Trichloroethane	U		U		U		U		U		U
1,1-Dichloroethane	U		U		U	8.1			U		U
1,1-Dichloroethene	U		U		U		U		UJ		U
1,2,4-Trichlorobenzene	U		U		U		U		U		U
1,2,4-Trimethylbenzene	U	210	J	140	EJ	68			U	110	
1,2-Dibromoethane	U		U		U		U		U		U
1,2-Dichlorobenzene	U		U		U		U		U		U
1,2-Dichloroethane	U		U		U		U		U		U
1,2-Dichloroethene (total)	U		U		U	520		440			U
1,2-Dichloropropane	U		U		U		U		U		U
1,2-Dichlorotetrafluoroethane	U		U		U		U		U		U
1,3,5-Trimethylbenzene	U	49		39	J	26			U	30	
1,3-Butadiene	U	3.1		110	J	240		290	J		U
1,3-Dichlorobenzene	U		U		U		U		U		U
1,4-Dichlorobenzene	U		U		U		U		U		U
1,4-Dioxane	U		U		U		U		U		U
2,2,4-Trimethylpentane	U	1.5		8.4	J	22		89			U
2-Chlorotoluene	U	1	U		U		U		U		U
3-Chloropropene	U	0.63	U		U		U		U		U
4-Ethyltoluene	U	170		140	J	69			U	79	
Acetone	U	100		81	J	140			U		U
Benzene	U	4.8		32	J	42		54			U
Bromodichloromethane	U		U		U		U		U		U
Bromoethene	U		U		U		U		U		U
Bromoform	U		U		U		U		U		U
Bromomethane	U		U		U		U		U		U
Carbon Disulfide	U		U	2.6	J	59		50			U
Carbon Tetrachloride	U		U		U		U		U		U
Chlorobenzene	U		U		U		U		U		U
Chloroethane	U		U		U		U		U		U
Chloroform	U		U	44	J	10			U		U
Chloromethane	1.5		U		U		U		U		U
cis-1,2-Dichloroethene	U		U		U	440		400			U
cis-1,3-Dichloropropene	U		U		U		U		U		U
Cyclohexane	U	7.6		38	J	23		34			U
Dibromochloromethane	U		U		U		U		U		U
Dichlorodifluoromethane	U		U		U		U		U	9900	
Ethylbenzene	U	40		56	J	30			U	33	
Freon TF	U		U		U		U		U		U
Hexachlorobutadiene	U		U		U		U		UJ		U
Isopropyl Alcohol	U		U		U		U		U		U
Methyl Butyl Ketone	U		U		U		U		U		U
Methyl Ethyl Ketone	U	2.4		15	J	38			U		U
Methyl Isobutyl Ketone	U		U	3.1	J		U		U		U
Methyl tert-Butyl Ether	U		U		U		U		U		U
Methylene Chloride	U		U		U		U		U		U
n-Heptane	U	11		53	J	37		36			U
n-Hexane	U	6.7		95	J	49		81			U
Styrene	U		U	0.85	U		U		U		U
tert-Butyl Alcohol	U		U	15	U		U		U		U
Tetrachloroethene	U	95		130	J	95		56		63	
Tetrahydrofuran	U		U		U		U		U		U
Toluene	1.1	120		380	EJ	140		45		87	
trans-1,2-Dichloroethene	U		U		U	71		25			U
trans-1,3-Dichloropropene	U		U		U		U		U		U
Trichloroethene	U	100		150	J	1900		2700		25	
Trichlorofluoromethane	U	3.7		3.4	J		U		U		U
Vinyl Chloride	U		U		U	82		380			U
Xylene (m,p)	U	350		230	J	130			U	150	
Xylene (o)	U	87		87	J	43			U	52	
Xylene (total)	U	430		480	J	170			U	200	

E – Parameter detected above the upper calibration range limit.
U – Parameter was analyzed but was not detected above the reporting limit.
J – Estimated value.

TABLE 4.3.1 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL VAPOR SAMPLING RESULTS

Parameter	Samples Collected on 6-17-2005	G-4		G-4		J-1		J-1		N-4		N-4	
	Ambient 6-17-2005	10 ft		52 ft		10 ft		52 ft		10 ft		52 ft	
	(µg/m³)	(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)	
1,1,1-Trichloroethane	U	65		U		370		160		190		U	
1,1,2,2-Tetrachloroethane	U	U		U		U		U		U		U	
1,1,2-Trichloroethane	U	U		U		U		U		U		U	
1,1-Dichloroethane	U	2200		810		530		300		53		U	
1,1-Dichloroethene	U	71		990		U		170		U		U	
1,2,4-Trichlorobenzene	UJ	UJ		UJ		UJ		UJ		UJ		UJ	
1,2,4-Trimethylbenzene	U	160		U		54		U		U		2	
1,2-Dibromoethane	U	U		U		U		U		U		U	
1,2-Dichlorobenzene	U	U		U		U		U		U		U	
1,2-Dichloroethane	U	U		U		U		U		U		U	
1,2-Dichloroethene (total)	U	1500		99000		380		3400		790		6.7	
1,2-Dichloropropane	U	U		U		U		U		U		U	
1,2-Dichlorotetrafluoroethane	U	U		U		U		U		U		U	
1,3,5-Trimethylbenzene	U	36		U		64		U		U		U	
1,3-Butadiene	U	U		U		120		150		22		U	
1,3-Dichlorobenzene	U	U		U		U		U		U		U	
1,4-Dichlorobenzene	U	44		U		U		U		U		U	
1,4-Dioxane	U	U		U		U		U		U		U	
2,2,4-Trimethylpentane	U	430		U		840		U		U		U	
2-Chlorotoluene	U	U		U		U		U		U		U	
3-Chloropropene	U	U		U		U		U		U		U	
4-Ethyltoluene	U	22		U		U		U		U		1.4	
Acetone	U	480		U		U		U		U		15	
Benzene	U	51		U		99		U		U		1	
Bromodichloromethane	U	U		U		U		U		U		U	
Bromoethene	U	U		U		U		U		U		U	
Bromoform	U	U		U		U		U		U		U	
Bromomethane	U	U		U		U		U		U		U	
Carbon Disulfide	U	150		U		200		270		130		U	
Carbon Tetrachloride	U	41		U		U		U		U		U	
Chlorobenzene	U	U		U		U		U		U		U	
Chloroethane	U	550		U		120		U		U		U	
Chloroform	U	U		U		U		U		41		U	
Chloromethane	U	U		U		U		U		U		U	
cis-1,2-Dichloroethene	U	1300		99000		320		3400		710		6.7	
cis-1,3-Dichloropropene	U	U		U		U		U		U		U	
Cyclohexane	U	55		U		240		U		U		U	
Dibromochloromethane	U	U		U		U		U		U		U	
Dichlorodifluoromethane	U	U		U		U		U		U		U	
Ethylbenzene	U	U		U		U		U		U		U	
Freon TF	U	U		U		U		U		U		U	
Hexachlorobutadiene	UJ	UJ		UJ		UJ		UJ		UJ		UJ	
Isopropyl Alcohol	U	U		U		U		U		U		U	
Methyl Butyl Ketone	U	U		U		U		U		U		U	
Methyl Ethyl Ketone	2.1	120		U		U		U		U		2.8	
Methyl Isobutyl Ketone	U	U		U		U		U		U		U	
Methyl tert-Butyl Ether	U	U		U		U		U		U		U	
Methylene Chloride	U	U		U		U		450		94		U	
n-Heptane	U	110		U		190		330		U		U	
n-Hexane	U	99		U		170		150		39		U	
Styrene	U	U		U		U		89		32		U	
tert-Butyl Alcohol	U	U		U		U		U		U		U	
Tetrachloroethene	U	240		U		U		U		88		U	
Tetrahydrofuran	U	U		U		U		U		U		U	
Toluene	1.9	75		U		180		680		87		4.5	
trans-1,2-Dichloroethene	U	250		U		56		U		83		U	
trans-1,3-Dichloropropene	U	U		U		U		U		U		U	
Trichloroethene	U	1100		17000		480		18000		8100	E	43	
Trichlorofluoromethane	U	U		U		U		U		U		U	
Vinyl Chloride	U	4300	E	1500		1200		360		U		U	
Xylene (m,p)	1.1	22		U		52		U		U		2.6	
Xylene (o)	U	31		U		48		U		U		1.3	
Xylene (total)	1.1	52		U		100		U		U		3.9	

E – Parameter detected above the upper calibration range limit.
U – Parameter was analyzed but was not detected above the reporting limit.
J – Estimated value.

TABLE 4.3.1 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL VAPOR SAMPLING RESULTS

Parameter	Samples Collected on 6-17-2005		N-7		N-7	
	Ambient 6-17-2005		10 ft		52 ft	
	($\mu g/m^3$)		($\mu g/m^3$)		($\mu g/m^3$)	
1,1,1-Trichloroethane		U	120		190	
1,1,2,2-Tetrachloroethane		U		U		U
1,1,2-Trichloroethane		U		U		U
1,1-Dichloroethane		U	130		49	
1,1-Dichloroethene		U		U		U
1,2,4-Trichlorobenzene		U		UJ		UJ
1,2,4-Trimethylbenzene		U		U		U
1,2-Dibromoethane		U		U		U
1,2-Dichlorobenzene		U		U		U
1,2-Dichloroethane		U		U		U
1,2-Dichloroethene (total)		U	440		790	
1,2-Dichloropropane		U		U		U
1,2-Dichlorotetrafluoroethane		U		U		U
1,3,5-Trimethylbenzene		U		U		U
1,3-Butadiene		U		U	22	
1,3-Dichlorobenzene		U		U		U
1,4-Dichlorobenzene		U		U		U
1,4-Dioxane		U		U		U
2,2,4-Trimethylpentane		U		U		U
2-Chlorotoluene		U		U		U
3-Chloropropene		U		U		U
4-Ethyltoluene		U		U		U
Acetone		U	330			U
Benzene		U		U		U
Bromodichloromethane		U		U		U
Bromoethene		U		U		U
Bromoform		U		U		U
Bromomethane		U		U		U
Carbon Disulfide		U	140		93	
Carbon Tetrachloride		U		U		U
Chlorobenzene		U		U		U
Chloroethane		U		U		U
Chloroform		U	40			U
Chloromethane		U		U		U
cis-1,2-Dichloroethene		U	370		710	
cis-1,3-Dichloropropene		U		U		U
Cyclohexane		U		U		U
Dibromochloromethane		U		U		U
Dichlorodifluoromethane		U		U		U
Ethylbenzene		U		U		U
Freon TF		U		U		U
Hexachlorobutadiene		U		UJ		UJ
Isopropyl Alcohol		U	470			U
Methyl Butyl Ketone		U		U		U
Methyl Ethyl Ketone	2.1		47			U
Methyl Isobutyl Ketone		U		U		U
Methyl tert-Butyl Ether		U		U		U
Methylene Chloride		U	94			U
n-Heptane		U		U		U
n-Hexane		U	27		39	
Styrene		U	31			U
tert-Butyl Alcohol		U		U		U
Tetrachloroethene		U	240		88	
Tetrahydrofuran		U		U		U
Toluene	1.9		79		60	
trans-1,2-Dichloroethene		U	87		87	
trans-1,3-Dichloropropene		U		U		U
Trichloroethene		U	4500		7500	
Trichlorofluoromethane		U		U		U
Vinyl Chloride		U		U		U
Xylene (m,p)	1.1		36			U
Xylene (o)		U	24			U
Xylene (total)	1.1		61			U

E – Parameter detected above the upper calibration range limit.
U - Parameter was analyzed but was not detected above the reporting limit.
J Estimated value.

TABLE 4.3.1 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL VAPOR SAMPLING RESULTS

Parameter	Samples Collected on 6-23-2005	E-11	G-11	H-13	H-13	I-3	I-5
	Ambient 6-23-2005	10 ft	10 ft	10 ft	52 ft	10 ft	10
	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)
1,1,1-Trichloroethane	U	U	40	U	36	210 U	150
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U
1,1,2-Trichloroethane	U	U	U	U	U	U	U
1,1-Dichloroethane	U	U	U	U	U	120	210
1,1-Dichloroethene	U	U	9.5	U	U	U	U
1,2,4-Trichlorobenzene	UJ	UJ	UJ	UJ	UJ	UJ	UJ
1,2,4-Trimethylbenzene	U	84	110	150	130	110	69
1,2-Dibromoethane	U	U	U	U	U	U	U
1,2-Dichlorobenzene	U	U	U	U	U	U	U
1,2-Dichloroethane	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	210	79	37	U	48	1900	950
1,2-Dichloropropane	U	U	U	U	U	U	U
1,2-Dichlorotetrafluoroethane	U	U	84	U	U	U	U
1,3,5-Trimethylbenzene	U	26	34	46	40	38	U
1,3-Butadiene	U	27	U	20	88	22	U
1,3-Dichlorobenzene	U	U	U	U	U	U	U
1,4-Dichlorobenzene	U	U	U	U	U	U	U
1,4-Dioxane	U	U	U	U	U	U	U
2,2,4-Trimethylpentane	U	U	U	U	U	U	U
2-Chlorotoluene	U	U	U	U	U	U	U
3-Chloropropene	U	U	U	U	U	U	U
4-Ethyltoluene	U	64	74	98	100	79	59
Acetone	U	U	U	200	400	U	U
Benzene	U	13	U	12	42	23	U
Bromodichloromethane	U	U	U	U	U	U	U
Bromoethene	U	U	U	U	U	U	U
Bromoform	U	U	U	U	U	U	U
Bromomethane	U	U	U	U	U	U	U
Carbon Disulfide	U	U	U	U	37	U	U
Carbon Tetrachloride	U	U	U	U	U	U	U
Chlorobenzene	U	U	U	U	U	U	U
Chloroethane	U	U	U	U	U	U	U
Chloroform	1.1	U	83	130	540	26	U
Chloromethane	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	190	79	37	U	48	1700	870
cis-1,3-Dichloropropene	U	U	U	U	U	U	U
Cyclohexane	U	U	U	9.3	48	U	U
Dibromochloromethane	U	U	U	U	U	U	U
Dichlorodifluoromethane	U	11000 EJ	1200	5900 EJ	29000 J	U	U
Ethylbenzene	U	27	25	33	56	35	U
Freon TF	U	U	U	U	U	U	U
Hexachlorobutadiene	UJ	UJ	UJ	UJ	UJ	UJ	UJ
Isopropyl Alcohol	U	U	U	U	U	U	U
Methyl Butyl Ketone	U	U	U	U	U	U	U
Methyl Ethyl Ketone	2.9	19	U	32	100	62	U
Methyl Isobutyl Ketone	U	U	U	U	U	U	U
Methyl tert-Butyl Ether	U	U	U	U	U	U	U
Methylene Chloride	U	U	U	U	U	U	U
n-Heptane	U	14	U	15	49	20	U
n-Hexane	U	13	U	16	70	24	39
Styrene	U	U	U	U	U	U	U
tert-Butyl Alcohol	U	U	U	U	U	U	U
Tetrachloroethene	3.1	2000	2200	2200	4400	5000	2600
Tetrahydrofuran	U	U	U	U	U	U	U
Toluene	0.94	79	60	87	230	100	83
trans-1,2-Dichloroethene	0.79	U	U	U	U	210	95
trans-1,3-Dichloropropene	U	U	U	U	U	U	U
Trichloroethene	4.1	48	260	28	100	3700	4500
Trichlorofluoromethane	1.1	U	53	21	44	U	U
Vinyl Chloride	U	U	51 U	U	U	U	U
Xylene (m,p)	U	120	120	160	230	150	120
Xylene (o)	U	43	48	61	87	61	48
Xylene (total)	U	170	170	220	320	210	170

E – Parameter detected above the upper calibration range limit.
U – Parameter was analyzed but was not detected above the reporting limit.
J – Estimated value.

TABLE 4.3.1 (continued). VOLATILE ORGANIC COMPOUND (VOC) SOIL VAPOR SAMPLING RESULTS

Parameter	Samples Collected on 6-23-2005	J-9	J-9
	Ambient 6-23-2005	10 ft	52 ft
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
1,1,1-Trichloroethane	U	U	U
1,1,2,2-Tetrachloroethane	U	U	U
1,1,2-Trichloroethane	U	U	U
1,1-Dichloroethane	U	U	U
1,1-Dichloroethene	U	1100	U
1,2,4-Trichlorobenzene	U	UJ	UJ
1,2,4-Trimethylbenzene	U	U	U
1,2-Dibromoethane	U	U	U
1,2-Dichlorobenzene	U	U	U
1,2-Dichloroethane	U	U	U
1,2-Dichloroethene (total)	210	59000	320000
1,2-Dichloropropane	U	U	U
1,2-Dichlorotetrafluoroethane	U	U	U
1,3,5-Trimethylbenzene	U	U	U
1,3-Butadiene	U	U	U
1,3-Dichlorobenzene	U	U	U
1,4-Dichlorobenzene	U	U	U
1,4-Dioxane	U	U	U
2,2,4-Trimethylpentane	U	U	U
2-Chlorotoluene	U	U	U
3-Chloropropene	U	U	U
4-Ethyltoluene	U	U	U
Acetone	U	U	U
Benzene	U	U	U
Bromodichloromethane	U	U	U
Bromoethene	U	U	U
Bromoform	U	U	U
Bromomethane	U	U	U
Carbon Disulfide	U	U	U
Carbon Tetrachloride	U	U	U
Chlorobenzene	U	U	U
Chloroethane	U	U	U
Chloroform	1.1	U	U
Chloromethane	U	U	U
cis-1,2-Dichloroethene	210 E	59000	320000 E
cis-1,3-Dichloropropene	U	U	U
Cyclohexane	U	U	U
Dibromochloromethane	U	U	U
Dichlorodifluoromethane	U	U	U
Ethylbenzene	U	U	U
Freon TF	U	U	U
Hexachlorobutadiene	U	UJ	UJ
Isopropyl Alcohol	U	U	U
Methyl Butyl Ketone	U	U	U
Methyl Ethyl Ketone	2.9	U	3500
Methyl Isobutyl Ketone	U	U	U
Methyl tert-Butyl Ether	U	U	U
Methylene Chloride	U	U	U
n-Heptane	U	U	U
n-Hexane	U	U	U
Styrene	U	U	U
tert-Butyl Alcohol	U	U	U
Tetrachloroethene	3.1	1600	U
Tetrahydrofuran	U	U	U
Toluene	0.94	U	U
trans-1,2-Dichloroethene	0.79	U	U
trans-1,3-Dichloropropene	U	U	U
Trichloroethene	4.1	1700	5100
Trichlorofluoromethane	1.1	U	U
Vinyl Chloride	U	U	U
Xylene (m,p)	U	U	U
Xylene (o)	U	U	U
Xylene (total)	U	U	U

E – Parameter detected above the upper calibration range limit.
U – Parameter was analyzed but was not detected above the reporting limit.
J – Estimated value.

TABLE 4.4.1. PCB GROUNDWATER SAMPLING RESULTS

Parameter	NYSDEC Class GA Groundwater Standard[1]	CAMW-1	CAMW-2	CAMW-3	CAMW-4
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Aroclor 1016		1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1221		2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1232		1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1242		1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1248		1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1254		1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1260		1.0 U	1.0 U	1.0 U	1.0 U
Total	0.09	U	U	U	U

[1] 6 NYCRR Part 703

U – Compound was analyzed for but not detected, i.e., less than the IDL.

TABLE 4.4.1. PCB GROUNDWATER SAMPLING RESULTS

Parameter	NYSDEC Class GA Groundwater Standard[1]	CAMW-1	CAMW-2	CAMW-3	CAMW-4
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Aroclor 1016		1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1221		2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1232		1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1242		1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1248		1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1254		1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1260		1.0 U	1.0 U	1.0 U	1.0 U
Total	0.09	U	U	U	U

[1] 6 NYCRR Part 703
U – Compound was analyzed for but not detected, i.e., less than the IDL.

TABLE 4.4.2. METALS GROUNDWATER SAMPLING RESULTS

Parameter	NYSDEC Class GA Groundwater Standard[1]	CAMW-1	CAMW-2	CAMW-3	CAMW-4
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Mercury	0.7	0.10 U	0.10 U	0.10 U	0.10 U
Aluminum	2000[2]	74.6 BU	48.8 BU	56.8 BU	55.4 BU
Antimony	3	3.3 U	3.3 U	3.3 U	3.3 U
Arsenic	25	5.6 U	5.6 U	5.6 U	5.6 U
Barium	1000	19.0 B	69.4 B	62.5 B	79.5 B
Beryllium		17.1 U	17.1 U	17.1 U	17.1 U
Calcium		15600	49200	95300	61400
Cadmium	5	0.37 U	0.37 U	0.52 B	0.37 U
Chromium	50	4.5 BU	2.5 BU	2.8 BU	4.0 BU
Cobalt		1.1 U	4.5 B	1.1 U	3.8 B
Copper	200	2.1 B	0.98 U	2.3 B	1.4 B
Iron	300	76.9 BU	44.7 BU	59.1 BU	62.1 BU
Lead	25	1.2 U	1.2 U	1.2 U	1.2 U
Magnesium		1290 B	7880	5680	7620
Manganese	300	12.7 B	16.3	11.3 B	77.1
Nickel	100	2.0 U	2.0 U	2.0 U	3.7 B
Potassium		10100 EJ	7280 EJ	8640 EJ	15400 EJ
Selenium	10	5.4 U	5.4 U	5.4 U	5.4 U
Silver	50	3.6 U	3.6 U	3.6 U	3.6 U
Sodium	20000	**30500**	**59800**	**105000**	**44200** E
Thallium		5.0 U	5.0 U	5.0 U	5.0 U
Vanadium		5.4 U	5.4 U	5.4 U	5.4 U
Zinc	5000	18.2 BU	17.5 BU	51.1 U	54.1 U
Chromium (VI)	50	1.1 U	0.02 U	0.02 U	0.02 U
Cyanide		0.57 U	10.0 U	10.0 U	10.0 U

[1] 6 NYCRR Part 703
[2] Effluent Limitation
J – Reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
U – Compound was analyzed for but not detected, i.e., less than the IDL.

TABLE 4.4.3. VOLATILE ORGANIC COMPOUND GROUNDWATER SAMPLING RESULTS

Parameter	NYSDEC Class GA Groundwater Standard[1]	CAMW-1	CAMW-2	CAMW-3	CAMW-4
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,1,1 Trichloroethane	5.0	10 U	8 J	10 U	10 U
1,1,2,2-Tetrachloroethane	5.0	10 U	10 U	10 U	10 U
1,1,2 Trichloroethane	1.0	10 U	10 U	10 U	10 U
1,1-Dichloroethane	5.0	10 U	11	4 J	10 U
1,1-Dichloroethene	5.0	10 U	10	2 J	10 U
1,2-Dichloroethane	0.6	10 U	10 U	10 U	10 U
1,2-Dichloroethene	5.0	**20**	**590**	**1400**	**32**
1,2 Dichloropropane	1.0	10 U	10 U	10 U	10 U
2-Butanone	50	10 U	10 U	10 U	10 U
2-Hexanone	50	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone		10 U	10 U	10 U	10 U
Acetone	50	10 U	10 U	10 U	10 U
Benzene	1.0	10 U	10 U	10 U	10 U
Bromodichloromethane	50	10 U	10 U	10 U	10 U
Bromoform	50	10 U	10 U	10 U	10 U
Bromomethane	5.0	10 U	10 U	10 U	10 U
Carbon Disulfide		10 U	10 U	10 U	10 U
Carbon Tetrachloride	5.0	10 U	10 U	10 U	10 U
Chlorobenzene	5.0	10 U	10 U	10 U	10 U
Chloroethane	5.0	10 U	10 U	10 U	10 U
Chloroform	7.0	1 J	10 U	2 J	1 J
Chloromethane		10 U	10 U	10 U	10 U
cis-1,3 Dichloropropene	0.4	10 U	10 U	10 U	10 U
Dibromochloromethane	50	10 U	10 U	10 U	10 U
Ethylbenzene	5.0	10 U	10 U	10 U	10 U
Methyl-t-butyl ether	5.0	10 U	10 U	10 U	10 U
Methylene chloride	5.0	10 U	10 U	10 U	10 U
Styrene	5.0	10 U	2 J	3 J	10 U
Tetrachloroethene	5.0	10 U	10 U	10 U	10 U
Toluene	5.0	10 U	10 U	10 U	10 U
trans-1,3 Dichloropropene	0.4	**11**	**170**	**54**	**5** J
Trichloroethene	5.0	10 U	10 U	10 U	10 U
Vinyl chloride	2.0	10 U	10 U	10 U	10 U
Xylenes	5.0	10 U	8 J	10 U	10 U
Chlorodifluoromethane[2]	5.0	--	--	--	**200** JN

[1] 6 NYCRR Part 703.
[2] Tentatively Identified Compound (TIC).
D – Compound identified in an analysis at a secondary dilution factor.
J – Estimated value.
N – Indicates presumptive evidence of a TIC.
U – Compound analyzed for but not detected.

TABLE 4.4.4. SEMI-VOLATILE ORGANIC COMPOUND (SVOC) GROUNDWATER SAMPLING RESULTS

Parameter	NYSDEC Class GA Groundwater Standard[1]	CAMW-1	CAMW-2	CAMW-3	CAMW-4
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,2,4-Trichlorobenzene	5	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	3	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	3	10 U	10 U	10 U	10 U
2,2'-oxybis(1-chloropropane)	--	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	--	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	--	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	5	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	50	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	10	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	50	10 U	10 U	10 U	10 U
2,6 Dinitrotoluene	5	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U
2-Chlorophenol	--	10 U	10 U	10 U	10 U
2-Methylnaphthalene	--	10 U	10 U	10 U	10 U
2-Methylphenol	--	10 U	10 U	10 U	10 U
2-Nitroaniline	5	25 U	25 U	25 U	25 U
2-Nitrophenol	--	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	10 U	10 U	10 U	10 U
3-Nitroaniline	5	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	--	25 U	25 U	25 U	25 U
4-Bromophenyl-phenylether	--	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	--	10 U	10 U	10 U	10 U
4- Chloroaniline	5	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	--	10 U	10 U	10 U	10 U
Methylphenol	--	10 U	10 U	10 U	10 U
itroaniline	5	25 U	25 U	25 U	25 U
Nitrophenol	--	25 U	25 U	25 U	25 U
Acenaphthene	20	10 U	10 U	10 U	10 U
Acenaphthylene	--	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U
Benzo(a)anthracene	0.002	10 U	10 U	10 U	10 U
Benzo(a)pyrene	--	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.002	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	--	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	0.002	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	5	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether	5	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)phthalate	5	10 U	10 U	10 U	10 U
Butyl benzyl phthlate	50	10 U	10 U	10 U	10 U
Carbazole	--	10 U	10 U	10 U	10 U
Chrysene	0.002	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	--	10 U	10 U	10 U	10 U
Dibenzofuran	--	10 U	10 U	10 U	10 U
Diethylphthlate	50	10 U	10 U	10 U	10 U
Dimethylphthlate	50	10 U	10 U	10 U	10 U
Di-n-butyl phthalate	--	10 U	10 U	10 U	10 U
Di-n-octyl phthlate	50	10 UJ	10 UJ	10 UJ	10 UJ
Fluoranthene	50	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	5	10 U	10 U	10 U	10 U
Hexachloroethane	5	10 U	10 U	10 U	10 U
Indeno (1,2,3-cd)pyrene	0.002	10 U	10 U	10 U	10 U
Isophorone	50	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U
Nitrobenzene	0.4	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	50	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	50	10 U	10 U	10 U	10 U
Pentachlorophenol	5	25 U	25 U	25 U	25 U
Phenanthrene	50	10 U	10 U	10 U	10 U
Phenol	1.0	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U

NYCRR Part 703.
Compound analyzed for but not detected.

TABLE 4.4.4. SEMI-VOLATILE ORGANIC COMPOUND (SVOC) GROUNDWATER SAMPLING RESULTS

Parameter	NYSDEC Class GA Groundwater Standard[a]	CAMW-1	CAMW-2	CAMW-3	CAMW-4
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,2,4-Trichlorobenzene	5	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	3	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	3	10 U	10 U	10 U	10 U
2,2'-oxybis(1-chloropropane)	--	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	--	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	--	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	5	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	50	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	10	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	50	10 U	10 U	10 U	10 U
2,6 Dinitrotoluene	5	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U
2-Chlorophenol	--	10 U	10 U	10 U	10 U
2-Methylnaphthalene	--	10 U	10 U	10 U	10 U
2-Methylphenol	--	10 U	10 U	10 U	10 U
2-Nitroaniline	5	25 U	25 U	25 U	25 U
2-Nitrophenol	--	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	10 U	10 U	10 U	10 U
3-Nitroaniline	5	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	--	25 U	25 U	25 U	25 U
4-Bromophenyl-phenylether	--	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	--	10 U	10 U	10 U	10 U
4- Chloroaniline	5	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	--	10 U	10 U	10 U	10 U
Methylphenol	--	10 U	10 U	10 U	10 U
itroaniline	5	25 U	25 U	25 U	25 U
Nitrophenol	--	25 U	25 U	25 U	25 U
Acenaphthene	20	10 U	10 U	10 U	10 U
Acenaphthylene	--	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U
Benzo(a)anthracene	0.002	10 U	10 U	10 U	10 U
Benzo(a)pyrene	--	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.002	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	--	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	0.002	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	5	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether	5	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)phthalate	5	10 U	10 U	10 U	10 U
Butyl benzyl phthlate	50	10 U	10 U	10 U	10 U
Carbazole	--	10 U	10 U	10 U	10 U
Chrysene	0.002	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	--	10 U	10 U	10 U	10 U
Dibenzofuran	--	10 U	10 U	10 U	10 U
Diethylphthlate	50	10 U	10 U	10 U	10 U
Dimethylphthlate	50	10 U	10 U	10 U	10 U
Di-n-butyl phthalate	--	10 U	10 U	10 U	10 U
Di-n-octyl phthlate	50	10 UJ	10 UJ	10 UJ	10 UJ
Fluoranthene	50	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	5	10 U	10 U	10 U	10 U
Hexachloroethane	5	10 U	10 U	10 U	10 U
Indeno (1,2,3-cd)pyrene	0.002	10 U	10 U	10 U	10 U
Isophorone	50	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U
Nitrobenzene	0.4	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	50	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	50	10 U	10 U	10 U	10 U
Pentachlorophenol	5	25 U	25 U	25 U	25 U
Phenanthrene	50	10 U	10 U	10 U	10 U
Phenol	1.0	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U

NYCRR Part 703.
Compound analyzed for but not detected.

TABLE 5.1.1. QA/QC TRIP BLANK SAMPLING RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Parameter	TB-1	TB-2	TB-4	TB-6	TB-10	TB-12	TB-18
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,1,1 Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2 Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2 Dichloropropane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3 Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3 Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes	10 U	10 U	10 U	10 U	10 U	10 U	10 U

(1) 6 NYCRR Part 703.
U – Compound analyzed for but not detected.

TABLE 5.1.1 (continued). QA/QC TRIP BLANK SAMPLING RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Parameter	TB-19		TB-22		TB-23		TB-26		TB-27		TB-29		TB-31	
	(µg/L)		(µg/L)		(µg/L)		(µg/L)		(µg/L)		(µg/L)		(µg/L)	
1,1,1 Trichloroethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2 Trichloroethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,2 Dichloropropane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acetone	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbon Disulfide	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
cis-1,3 Dichloropropene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U
ylbenzene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
hylene chloride	10	U	10	U	10	U	10	U	10	U	10	U	10	U
yrene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,3 Dichloropropene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Vinyl chloride	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Xylenes	10	U	10	U	10	U	10	U	10	U	10	U	10	U

(1) 6 NYCRR Part 703.
U – Compound analyzed for but not detected.

TABLE 5.1.1 (continued). QA/QC TRIP BLANK SAMPLING RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Parameter	TB-33		TB-36		TB-39		TB-43		TB-45		TRIP BLANK 7-13-05	
	(µg/L)		(µg/L)		(µg/L)		(µg/L)		(µg/L)		(µg/L)	
1,1,1 Trichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2 Trichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U	10	U
1,2 Dichloropropane	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U	10	U
Acetone	10	U	10	U	10	U	10	U	6	J	10	U
Benzene	10	U	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U	10	U
Carbon Disulfide	10	U	10	U	10	U	10	U	10	U	10	U
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	U	10	U
cis-1,3 Dichloropropene	10	U	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U	10	U
Ethylbenzene	10	U	10	U	10	U	10	U	10	U	10	U
Methylene chloride	10	U	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,3 Dichloropropene	10	U	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	10	U	10	U	10	U	10	U	10	U
Vinyl chloride	10	U	10	U	10	U	10	U	10	U	10	U
Xylenes	10	U	10	U	10	U	10	U	10	U	10	U

(1) 6 NYCRR Part 703.
J – Estimated value.
U – Compound analyzed for but not detected.

TABLE 5.1.2. QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR PCBS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	A-4		A-6		B-1		B-5		B-9		B-11		C-2	
		8-10	BD[2]	4-6	BD	28-30	BD	2-4	BD	0-2	BD	28-30	BD	0-2	BD
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Aroclor 1016		U	U	U	U	U	U	U	U	U	UXJ	U	U	U	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	UXJ	U	U	U	UXJ
Aroclor 1242		U	U	U	U	U	U	29 J	31 J	62	410	U	U	180	340
Aroclor 1248		U	U	U	U	U	U	U	U	U	UXJ	U	U	U	UXJ
Aroclor 1254		U	U	U	U	U	U	38 P	38 PJ	33 J	UXJ	U	U	U	170 ZJ
Aroclor 1260		U	U	U	U	U	U	22 J	U	20 J	U	U	U	36 J	48
Total	1000/10000							89	69	115	410			216	510

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
[2] BD = Blind Duplicate
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 5.1.2 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR PCBS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	C-5		C-9		D-1		D-3		D-7		D-8		D-10	
		8-10	BD[2]	8-10	BD	38-40	BD	48-50	BD	18-20	BD	4-6	BD	2-4	BD
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Aroclor 1016		U	UXJ	U	UXJ	U	U	U	U	U	UXJ	U	UXJ	U	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	UXJ	U	UXJ	U	U	U	U	U	UXJ	U	UXJ	U	UXJ
Aroclor 1242		1800 D	5100 D	U	1100 D	U	U	U	U	210	250	2100 D	1200 D	81	160
Aroclor 1248		U	UXJ	U	UXJ	U	U	U	U	U	UXJ	U	UJ	U	UXJ
Aroclor 1254		U	UXJ	U	UXJ	U	U	U	U	U	U	U	210 Z	39 Z	49 ZJ
Aroclor 1260		61	120	U	37	U	U	U	U	27 J	34 J	110	62	U	U
Total	1000/10000	1861	5220		1137					237	284	2210	1472	120	209

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
[2] BD = Blind Duplicate
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 5.1.2 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR PCBS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	E-3		E-6		E-9		F-3		F-4		F-5		F-9	
		2-4	BD[2]	4-6	BD	0-2	BD	4-6	BD	8-10	BD	0-2	BD	4-6	BD
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Aroclor 1016		UX	UXJ	U	UXJ	U	U	U	UX	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		UX	UXJ	U	UXJ	U	U	U	UX	U	U	U	U	U	U
Aroclor 1242		1100 D	3300 D	180	72	45	26 J	47	150	U	U	31 J	30 J	U	U
Aroclor 1248		UX	UXJ	U	UXJ	U	U	U	UX	U	U	U	U	U	U
Aroclor 1254		740 DZ	UXJ	U	U	49	48	25 JZ	78 PZ	U	U	22 PJ	U	U	U
Aroclor 1260		95	72	U	U	U	26 PJ	U	20 J	U	U	U	U	U	U
Total	1000/10000	1935	3372	180	72	94	100	72	248			53	30		

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
[2] BD = Blind Duplicate
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 5.1.2 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR PCBS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	F-13		G-2		G-6		G-9		G-14		H-1		H-7	
		8-10	BD[2]	0-2	BD	0-2	BD	0-2	BD	8-10	BD	28-30	BD	8-10	BD
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Aroclor 1016		U	U	U	UXJ	U	U	U	UXJ	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	UXJ	U	U	U	UXJ	U	U	U	U	U	U
Aroclor 1242		22 J	U	150	120	U	U	110	93	U	20 j	U	U	U	U
Aroclor 1248		U	U	U	UXJ	U	U	U	UXJ	U	U	U	U	U	U
Aroclor 1254		24 PJ	U	77 Z	65 JZ	U	U	190	120	U	U	U	U	U	U
Aroclor 1260		U	U	25 J	25 PJ	U	U	24 J	U	U	U	U	U	U	U
Total	1000/10000	46		252	210			324	213						

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
[2] BD = Blind Duplicate
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 5.1.2 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR PCBS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	H-10		I-1		I-3		I-9		I-11		J-1		J-5	
		0-2	BD[2]	0-2	BD	8-10	BD	2-4	BD	4-6	BD	4-6	BD	0-2	BD
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Aroclor 1016		U	U	U	UXJ	U	U	U	U	U	U	U	UXJ	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	UXJ	U	U	U	U	U	U	U	UXJ	U	U
Aroclor 1242		49 P	50	550	590 D	19 J	U	U	U	U	U	3500 D	5400 D	69	30 J
Aroclor 1248		U	U	U	UXJ	U	U	U	U	U	U	U	UXJ	U	U
Aroclor 1254		43 Z	44 JZ	250 PZ	200 JZ	U	U	U	U	U	U	1500 DZ	1800 DZJ	98	55
Aroclor 1260		U	U	75	47	U	U	U	U	U	U	530	500	21 J	U
Total	1000/10000	92	94	875	837	19						5530	7700	188	85

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
[2] BD = Blind Duplicate
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 5.1.2 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR PCBS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	J-7		K-7		L-7		M-6		N-4		N-5		N-6	
		48-50	BD[2]	8-10	BD	8-10	BD	8-10	BD	8-10	BD	2-4	BD	2-4	BD
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U	UXJ	U	UXJ
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U	UXJ	U	UXJ
Aroclor 1242		U	U	41	66	U	U	U	U	U	U	30 J	190 J	76	160
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U	UXJ	U	UXJ
Aroclor 1254		U	U	37	58	U	U	U	U	U	U	U	51	39	65
Aroclor 1260		U	U	U	U	U	U	U	U	U	U	U	U	30 J	19 J
Total	1000/10000			78	124							30	241	145	244

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.
[2] BD = Blind Duplicate
D - Compound detected in an analysis at a secondary dilution factor.
J – Estimated Value.
P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.
U – Compound not detected.
X – Aroclor compound may be partially masked by the presence of another Aroclor.
Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 5.1.2 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR PCBS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	N-7		N-9	
		28-30	BD[2]	8-10	BD
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Aroclor 1016		U	U	U	UXJ
Aroclor 1221		U	U	U	U
Aroclor 1232		U	U	U	UXJ
Aroclor 1242		21 J	30 J	170	280
Aroclor 1248		U	U	U	UXJ
Aroclor 1254		U	20 J	1200 D	1800
Aroclor 1260		U	U	120	140
Total	1000/10000	21	50	1490	2220

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. 1 mg/kg for surface soils. 10 mg/kg for subsurface soils.

[2] BD = Blind Duplicate

D - Compound detected in an analysis at a secondary dilution factor.

J – Estimated Value.

P – Greater than 25% difference detected between concentrations on two Gas Chromatograph columns.

U – Compound not detected.

X – Aroclor compound may be partially masked by the presence of another Aroclor.

Z – Indicates compound may be biased high due to presence of another Aroclor.

TABLE 5.1.3. QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR METALS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	A-4		A-6		B-1		B-5		B-9	
			8-10	BD[2]	4-6	BD	28-30	BD	2-4	BD	0-2	BD
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 U	0.051 U	0.054 U	0.054 B	0.052 U	0.052 U	0.054 UN	0.055 RUN	0.052 U	0.052 U
Arsenic	7.5 or SB	3 - 12	0.66 B*	1.3 J*	3.2 *	3.3 J*	1.4	1.2	3.8	2.4	1.8	1.5
Barium	300 or SB	15 - 600	10.2 B	6.9 B	17.7 B	27.1	6.9 B	5.8 B	31.5	19.9 B	13.0 B	13.6 B
Cadmium	10	0.1 - 1	0.18 B	0.045 B	0.099 B	0.13 B	0.068 U	0.042 U	0.46 B	0.26 B	0.97	0.13 B
Chromium	50	1.5 - 40	3.4 *	6.6 J*	9.9 *	12.8 J*	7.8	6.9	15.0	11.9	25.5	14.8
Lead	400	200 - 500	1.8 *	4.1 J*	8.7 *	8.0 J*	1.4	0.97	9.6 *	5.9 J*	10.7	2.6
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.18 U	0.58 UN	0.19 UN	0.48 UN	0.25 UN	0.51 UN	0.26 JUN	0.56 U	0.19 U
Silver	SB	N/A	0.36 U	0.051 U	0.38 U	0.054 U	0.14 U	0.042 U	0.37 BN	0.18 JBN	2.8	0.44 B

(1) New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
(2) BD = Blind Duplicate
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.

TABLE 5.1.3 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR METALS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	B-11		C-2		C-5		C-9		D-1	
			28-30	BD[2]	0-2	BD	8-10	BD	8-10	BD	38-40	BD
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.053 U	0.052 U	0.10 BN	0.067 RBN	0.080 B	0.065 B	0.052 U	0.055 U	0.051 U	0.052 U
Arsenic	7.5 or SB	3 - 12	9.5	10.5	4.0 N	3.1 JN	2.3	4.6	0.85 B	1.8	3.9	0.22 U
Barium	300 or SB	15 - 600	5.1 B	5.8 B	29.0	27.7	19.0 B	30.2	5.3 B	15.3 B	6.7 B	5.8 B
Cadmium	10	0.1 - 1	0.060 B	0.021 U	1.3	1.7	0.45 BN*	1.4 JN*	0.062 B	0.14 B	0.038 U	0.021 U
Chromium	50	1.5 - 40	33.5	26.4	27.6	25.1	18.6	32.8	10.9	11.8	33.4	3.3
Lead	400	200 - 500	0.82 RN	0.62 N	12.8 N*	12.4 RN*	6.8	16.6	1.3	3.7	0.12 U	0.43
Selenium	2 or SB	0.1 - 3.9	0.57 U	0.19 U	0.52 U	0.25 U	0.58 U	0.20 U	0.55 U	0.20 U	0.55 U	0.19 U
Silver	SB	N/A	0.38 U	0.052 U	3.8	2.9	0.52 B	1.9	0.37 U	0.055 U	0.37 U	0.052 U

(1) New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
(2) BD = Blind Duplicate
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.

TABLE 5.1.3 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR METALS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	D-3				D-7				D-8				D-10				E-3			
			48-50		BD[2]		18-20		BD		4-6		BD		2-4		BD		2-4		BD	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.052	U	0.053	U	0.052	U	0.052	U	0.054	U	0.085	B	0.052	U	0.053	U	0.15		0.14	
Arsenic	7.5 or SB	3 - 12	0.59	U	0.22	U	1.4	*E	1.7	J*E	3.0		3.0		2.0		2.1		7.7	N*	7.6	JN*
Barium	300 or SB	15 - 600	1.3	B	1.3	B	8.8	B	12.4	B	20.7	B	20.2	B	11.9	B	10.2	B	29.8		25.6	
Cadmium	10	0.1 - 1	0.038	U	0.021	U	0.18	B*	0.29	JB*	0.91		0.85		0.038	U	0.021	U	0.91		0.94	
Chromium	50	1.5 - 40	0.56	B*	1.8	*	13.8	*E	25.1	J*E	40.3		29.2		6.9	*	9.0	J*	16.0	*E	37.9	J*E
Lead	400	200 - 500	0.71		0.49		2.0	*E	2.7	J*E	20.2	*	19.7	J*	2.3		2.0		21.5	*	27.8	J*
Selenium	2 or SB	0.1 - 3.9	0.56	U	0.19	U	0.49	UN	0.25	RUN	0.58	U	0.20	U	0.56	UN	0.19	UN	0.66		1.3	
Silver	SB	N/A	0.37	U	0.053	U	0.17	B	0.25	B	2.5		2.1		0.37	U	0.053	U	0.97	B	3.1	

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
[2] BD = Blind Duplicate
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.

TABLE 5.1.3 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR METALS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	E-6				E-9				F-3				F-4				F-5			
			4-6		BD[2]		0-2		BD		4-6		BD		8-10		BD		0-2		BD	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.052	U	0.052	U	0.067	B	0.060	B	0.053	U	0.055	U	0.051	U	0.051	U	0.051	U	0.053	U
Arsenic	7.5 or SB	3 - 12	1.1		1.3		3.5		2.4		3.5		2.1		0.92	B	0.74	B	2.3		3.4	
Barium	300 or SB	15 - 600	10.7	B	11.6	B	18.5	B	12.0	B	18.1	B	12.6	B	5.9	B	5.6	B	10.4		13.2	
Cadmium	10	0.1 - 1	0.14	B	0.13	B	0.22	B	0.072	B	0.34	B	0.36	B	0.038	U	0.020	U	0.067	B	0.021	U
Chromium	50	1.5 - 40	11.5	N	10.6	NR	10.1		6.3		17.8	*E	14.8	J*E	13.4	*	20.1	J*	24.9		33.1	
Lead	400	200 - 500	1.9	*	2.4	J*	6.6		5.3		10.1	N*	4.7	JN*	0.89	N*	0.63	RN*	1.3		0.075	U
Selenium	2 or SB	0.1 - 3.9	0.55	U	0.56	U	0.49	UN	0.25	UN	0.56	U	0.59	U	0.55	U	0.18	U	0.55	U	0.19	U
Silver	SB	N/A	0.37	U	0.37	U	0.14	U	0.041	U	1.3		0.55	B	0.37	U	0.051	U	0.37	U	0.053	U

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
[2] BD = Blind Duplicate
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.

TABLE 5.1.3 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR METALS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	F-9		F-13		G-2		G-6		G-9	
			4-6	BD[2]	8-10	BD	0-2	BD	0-2	BD	0-2	BD
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 U	0.051 U	0.051 U	0.052 U	0.053 U	0.053 U	0.055 U	0.052 U	0.052 U	0.053 B
Arsenic	7.5 or SB	3 - 12	1.6	0.93 B	0.89 B	1.4	7.1	19.4	1.1	1.2	1.2	1.2
Barium	300 or SB	15 - 600	5.5 B	12.4 B	4.6 B	7.0 B	14.6 B	17.2 B	15.6 BE	8.5 JBE	6.7 B	9.4 B
Cadmium	10	0.1 - 1	0.038 U	0.020 U	0.038 U	0.021 U	0.69 N*	4.1 RN*	0.14 B	0.24 B	0.038 U	0.021 U
Chromium	50	1.5 - 40	4.9 *	5.6 *	5.1	8.7	22.2 *	35.9 J*	19.2 N*	19.3 JN*	4.9	6.2
Lead	400	200 - 500	1.2	0.79	0.86 NE	1.7 JNE	6.1	14.4	3.1 N*	1.3 JN*	1.5	1.9
Selenium	2 or SB	0.1 - 3.9	0.55 U	0.18 U	0.55 U	0.19 U	0.56 U	0.19 U	0.51 UN	0.49 JUN	0.55 U	0.19 U
Silver	SB	N/A	0.37 UN	0.051 UN	0.37 U	0.052 U	1.8	3.0	0.15 U	0.14 U	0.37 U	0.052 U

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
[2] BD = Blind Duplicate
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.

TABLE 5.1.3 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR METALS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	G-14		H-1		H-7		H-10		I-1	
			8-10	BD[2]	28-30	BD	8-10	BD	0-2	BD	0-2	BD
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.052 U	0.051 U	0.052 U	0.12	1.4	0.058 U	0.051 U	0.051 U	0.11	0.10 B
Arsenic	7.5 or SB	3 - 12	1.2	0.81 B	0.81 B	4.7	6.7 B	1.2	0.78 B	0.93 B	7.3	3.7
Barium	300 or SB	15 - 600	6.3 B	6.4 B	8.4 B	9.8 B	0.11 B	8.3 B	6.5 B	3.0 B	25.8	16.3 B
Cadmium	10	0.1 - 1	0.038 U	0.27 B	0.038 U	0.091 B	10.3	0.069 B	0.053 B	0.020 U	0.39 BN	0.24 JBN
Chromium	50	1.5 - 40	10.5 N	38.4 JN	3.5	8.9	0.35 *	12.5	6.1 *	2.1 J*	32.2	28.4
Lead	400	200 - 500	1.6 N	1.4 JN	0.55	0.96	0.55 U	0.40 J*	2.0	0.84	20.4	10.5
Selenium	2 or SB	0.1 - 3.9	0.56 U	0.18 U	0.55 U	0.19 U	0.37 U	0.21 U	0.55 U	0.18 U	0.56 UN	0.57 JUN
Silver	SB	N/A	0.37 U	0.051 U	0.37 U	0.052 U	1.4	0.058 U	0.37 U	0.051 U	2.8	1.0 B

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
[2] BD = Blind Duplicate
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.

TABLE 5.1.3 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR METALS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	I-3		I-9		I-11		J-1		J-5	
			8-10	BD[2]	2-4	BD	4-6	BD	4-6	BD	0-2	BD
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.051 UN	0.052 JUN	0.052 U	0.052 U	0.052 U	0.052 U	0.51	0.18	0.052 U	0.053 U
Arsenic	7.5 or SB	3 - 12	0.31 U	0.20 U	0.58 U	1.3 J	0.53 B	0.38 B	6.5	4.9	1.9	2.5
Barium	300 or SB	15 - 600	4.7 B	5.6 B	5.5 B	109 J	5.4 B	4.9 B	167	64.3	14.1 B	20.6 B
Cadmium	10	0.1 - 1	0.41 BE	0.68 JE	0.17 BN*	0.43 BJN*	0.068 U	0.031 U	26.3	11.1	0.13 B	0.20 B
Chromium	50	1.5 - 40	5.8	8.6	4.8 N*	9.1 JN*	5.7	6.3	287	244	11.0	12.8
Lead	400	200 - 500	1.4	2.0	0.86	1.6	0.93	1.6	61.1	39.2	2.6	3.8
Selenium	2 or SB	0.1 - 3.9	0.48 U	0.48 U	0.56 U	0.55 U	0.51 BN	0.61 JN	0.84 N	0.97 N	0.56 UN	0.19 JUN
Silver	SB	N/A	0.14 U	0.041 U	0.37 U	0.37 U	0.14 U	0.052 U	2.9	2.9	0.37 U	0.053 U

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
[2] BD = Blind Duplicate
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.

TABLE 5.1.3 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR METALS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	J-7		K-7		L-7		M-6		N-4	
			48-50	BD[2]	8-10	BD	8-10	BD	8-10	BD	8-10	BD
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	0.1	0.001 - 0.2	0.055 U	0.052 U	0.052 U	0.053 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 UN	0.052 UN
Arsenic	7.5 or SB	3 - 12	2.8	2.9 J	1.3	1.2	0.57 B	0.79 B	0.60 B	1.2	0.75 B	0.63 B
Barium	300 or SB	15 - 600	7.2 B	4.4 B	12.5 B	8.0 B	6.1 BE	6.2 BEJ	4.2 B	4.1 B	10.1 B	4.5 B
Cadmium	10	0.1 - 1	0.073 U	0.041 U	0.068 U	0.032 U	0.067 U	0.031 U	0.16 B	0.12 B	0.068 U	0.042 U
Chromium	50	1.5 - 40	3.0 N*	2.3 JN*	18.6 N*	9.9 JN*	6.6 *E	13.6 *EJ	3.7	6.1	5.2 N	2.5 JN
Lead	400	200 - 500	2.4 N	2.1 JN	2.9 N*	1.8 JN*	0.76 N	1.1 JN	0.54	0.58	2.7	1.4
Selenium	2 or SB	0.1 - 3.9	0.52 U	0.25 U	0.49 U	0.22 U	0.48 U	0.22 U	0.56 U	0.31 U	0.49 U	0.25 U
Silver	SB	N/A	0.15 U	0.041 U	0.14 U	0.053 U	0.14 U	0.052 U	0.37 U	0.077 U	0.14 U	0.042 U

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
[2] BD = Blind Duplicate
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.

TABLE 5.1.3 (continued). QA/QC BLIND DUPLICATE RESULTS COMPARISON FOR METALS

Parameter	NYSDEC Recommended Soil Cleanup Objective[1]	NYSDEC Eastern USA Background[1]	N-5				N-6				N-7				N-9			
			2-4		BD[2]		2-4		BD		28-30		BD		8-10		BD	
	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.1	0.001 - 0.2	0.053	U	0.053	U	0.054	U	0.052	U	0.054	U	0.054	U	0.052	U	0.29	
Arsenic	7.5 or SB	3 - 12	1.2		1.2		3.6		1.0	J	1.6		2.7		0.59	UN*	0.63	BJN*
Barium	300 or SB	15 - 600	7.7	B	9.2	B	84.1		13.4	BJ	9.9	B	7.9	B	4.9	B	6.6	B
Cadmium	10	0.1 - 1	0.24	B	0.35	B	1.3		0.38	B	0.071	U	0.043	U	0.17	B	0.20	B
Chromium	50	1.5 - 40	3.4		4.7		14.8	N	17.8	JN	9.2	*	6.1	*	10.5		11.1	
Lead	400	200 - 500	1.7		1.9		21.8	N*	1.4	JN*	2.0		1.8		1.9		2.4	
Selenium	2 or SB	0.1 - 3.9	0.56	U	0.56	U	0.58	U	0.56	U	0.51	UN	0.26	UN	0.56	U	0.56	U
Silver	SB	N/A	0.38	U	0.38	U	0.38	U	0.37	U	0.15	U	0.043	U	0.37	U	0.37	U

[1] New York State Department of Environmental Conservation (NYSDEC) Technical & Administrative Guidance Memorandum (TAGM) #4046.
[2] BD = Blind Duplicate
B – Parameter detected less than the Contract Required Detection Limit (CRDL) but greater than Instrumentation Detection Limit (IDL).
E – Reported value is estimated due to the presence of interference.
N – Matrix spike sample recovery not within control limits.
U – Parameter was analyzed for but not detected, i.e., less than IDL.
* - Duplicate analysis is not within control limits.

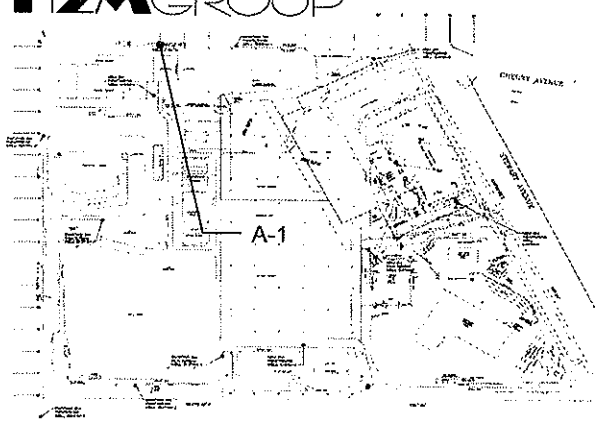
TABLE 6.3.1. QUALITATIVE RISK CHARACTERIZATION

Functional Exposure Pathway	Potential Receptor Population	Qualitative Potential Risk
Ingestion of Contaminated Soil	Visitors/Workers at Site	Present MINOR
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Inhalation of Vapors	Visitors/Workers at Site	Present
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Inhalation of Contaminated Dust During Remediation Activities	Workers at Site	Present
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Direct Contact with Runoff Water	Visitors/Workers at Site	Minor
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Ingestion of Contaminated Groundwater	Visitors/Workers at Site	Minor
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Dermal Absorption of Contaminants in Soil	Visitors/Workers at Site	Present
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Dermal Absorption of Contaminants in Groundwater	Visitors/Workers at Site	Minor
	Area Residents	Minor
	Construction/Remedial Workers	Minor

TABLE 6.3.1. QUALITATIVE RISK CHARACTERIZATION

Functional Exposure Pathway	Potential Receptor Population	Qualitative Potential Risk
Ingestion of Contaminated Soil	Visitors/Workers at Site	Present MINOR
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Inhalation of Vapors	Visitors/Workers at Site	Present
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Inhalation of Contaminated Dust During Remediation Activities	Workers at Site	Present
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Direct Contact with Runoff Water	Visitors/Workers at Site	Minor
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Ingestion of Contaminated Groundwater	Visitors/Workers at Site	Minor
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Dermal Absorption of Contaminants in Soil	Visitors/Workers at Site	Present
	Area Residents	Minor
	Construction/Remedial Workers	Minor
Dermal Absorption of Contaminants in Groundwater	Visitors/Workers at Site	Minor
	Area Residents	Minor
	Construction/Remedial Workers	Minor

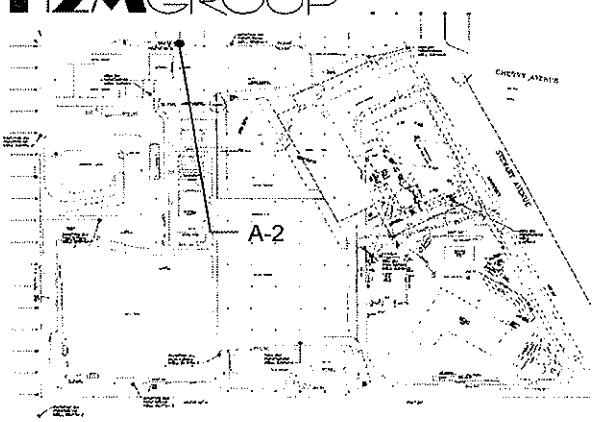
H2MGROUP



Boring # A-1	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/7/05		
COMPLETION TIME:	DATE: 6/7/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0-1' Brown Top Soil, Grass	PID (0'-2'): 0.0
			1-2' Brown SW w/ cobble	
			2-3' Tan SW w/ clay, little cobble	PID (2'-4'): 0.0
4-8	4'	3'3"	4'- 4'3" Clay, some cobble	PID (4'-6'): 0.0
			4'- 8' Tan, Sandy SW w/ small bits of cobble	
				PID (6'-8'): 0.0
8-10	2'	2'	8'- 8'6" Gray, sandy SW	PID (8-10): 0.0
			8'6"- 9' Brown, Rich SW w/ cobble	
			9'-10' Tan, sandy SW	

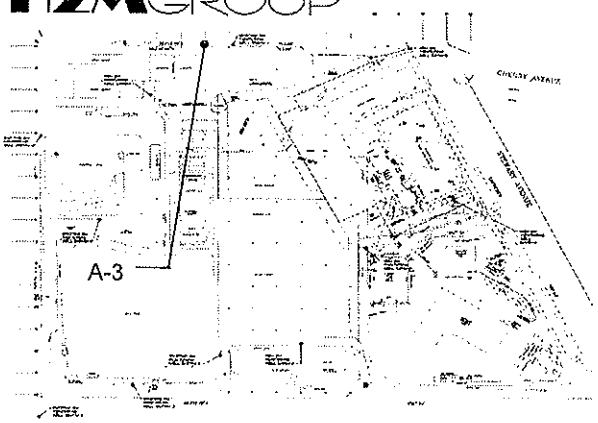
H2MGROUP



Boring # A-2	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/7/05	
COMPLETION TIME:		DATE: 6/7/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2	1'-2'6" Top soil, Brown SW w/ roots	PID (0'-2'): 0.0	
			2'6"-4' Tan SW, sandy		
				PID (2'-4'): 0.0	
4-8	4'	3'	4'-5' Tan/Brown SM w/ clay	PID (4'-6'): 0.0	
			5'-5'2" Crushed rock		
			5'2"-8' Tan, sandy SW w/ cobble	PID (6'-8'): 0.0	
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble	PID (8-10): 0.0	

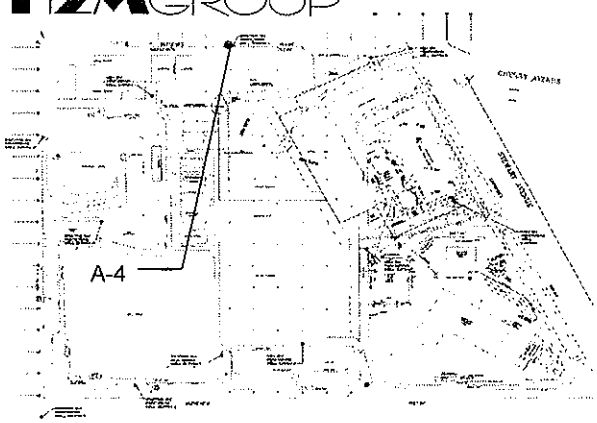
H2MGROUP



Boring # A-3	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/7/05	
COMPLETION TIME:		DATE: 6/7/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'	0-1'3" Brown top soil w/ grass, roots, cobble	PID (0'-2'): 0.0	
			1'3"-2' Tan, sandy SW w/ cobble		
				PID (2'-4'): 0.0	
4-8	4'	3'6"	4'-5' Tan SM, fine, compact, clay-like w/ small cobble	PID (4'-6'): 0.0	
			5'-8' Tan, sandy SW w/ cobble		
				PID (6'-8'): 0.0	
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble	PID (8'-10'): 0.0	

H2MGROUP

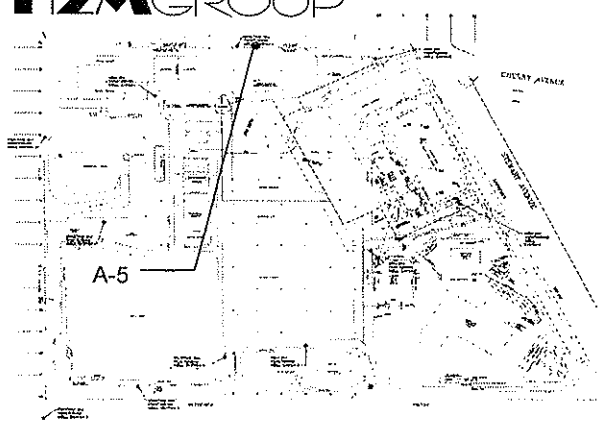


Boring # A-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/3/05	
COMPLETION TIME:		DATE: 6/3/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	1'-2' Grass, roots, brown SW w/ cobble	PID (0'-2'): 0.0
			2'-3' Tan, sandy SW w/ rocks, cobble	
				PID (2'-4'): 0.0
4-8	4'	2'	4'-5' Tan, sandy SW w/ cobble	PID (4'-6'): 0.0
			5'-5'6" Tan/gray SW w/ some cobble	
			5'6"-6' Tan SW w/ cobble	PID (6'-8'): 0.0
8-10	2'	2'	8'-9' Tan SW w/ cobble	PID (8'-10'): 0.0
			9'-9'3" Dark brown SW	
			9'3"-10' Tan SW	

Casing depth:
Screen depth:

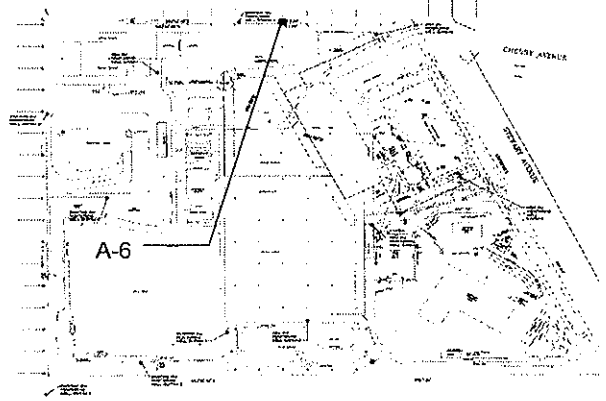
H2MGROUP



Boring # A-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/6/05	
COMPLETION TIME:		DATE: 6/6/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'	0-1'6" Brown Top Soil, Grass, SM	PID (0'-2'): 0.0	
			1'6"-3' Tan SW, some cobble		
				PID (2'-4'): 0.0	
4-8	4'	3'6"	4'- 4'10" Tan SW	PID (4'-6'): 0.0	
			4'10"-5' Brown SW		
			5'-7' Tan SW w/ cobble	PID (6'-8'): 0.0	
			7'-7'6" Tan SM, clay-like		
8-10	2'	1'6"	8'-8'6" Tan SW w/ cobble	PID (8'-10') 0.0	
			8'6"-9' Brown SW		
			9-'9'6" Tan SW w/cobble		

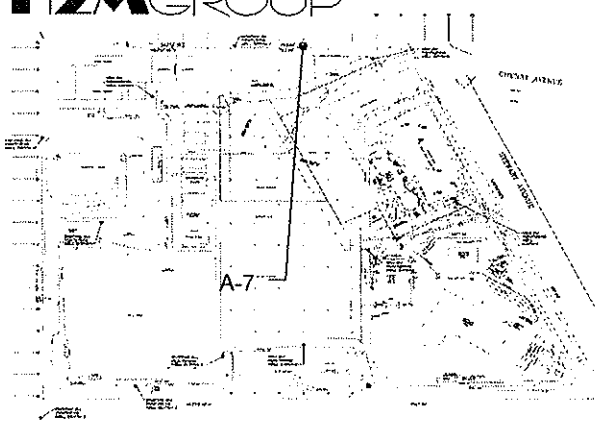
H2MGROUP



Boring # A-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/3/05	
COMPLETION TIME:		DATE: 6/3/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0-6" Grass, roots, cobble	PID (0'-2'): 0.0
			6"-1'6" Brown SW w/ cobble	
			1'6"-3' Tan SW w/ cobble	PID (2'-4'): 0.0
4-8	4'	4'	4'-5' Tan SW w/ cobble, some brown SW	PID (4'-6'): 0.0
			5'-8' Uniform Tan SW w/ cobble, rocks	
				PID (6'-8'): 0.0
8-10	2'	2'	8'-9' Tan SM, some cobble	PID (8'-10'): 0.0
			9'-10' Tan SW w/ cobble	

H2MGROUP

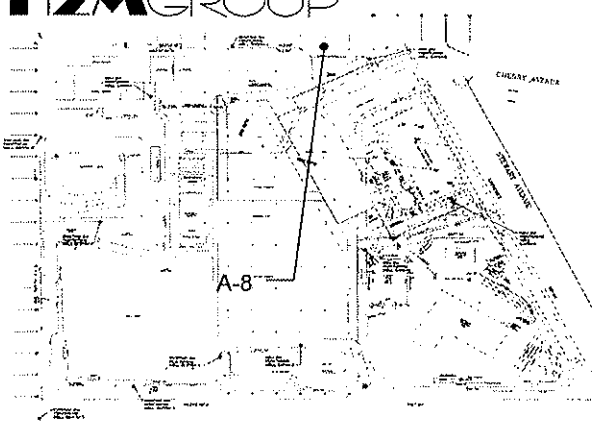


Boring # A-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/6/05	
COMPLETION TIME:		DATE: 6/6/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-3" Grass, roots, paint	PID (0'-2'): 0.0
			3"-1' Brown SW, top soil	
			1'-3' Tan SW, cobble, moist, w/ small amount of clay	PID (2'-4'): 0.0
4-8	4'	4'	4'-5' Clumpy Tan SW, some cobble	PID (4'-6'): 0.0
			5'-8' Tan SW some cobble, crushed rock	
				PID (6'-8'): 0.0
8-10	2'	1'6"	8'-9'6" Tan SW w/ cobble	PID (8'-10') 0.0

Casing depth:
Screen depth:

H2MGROUP

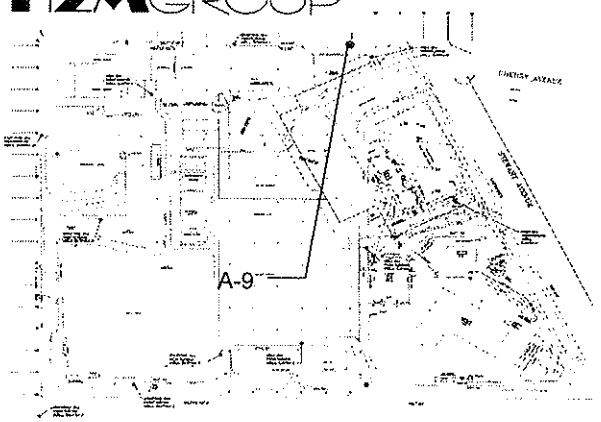


Boring # A-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/10/05		
COMPLETION TIME:	DATE: 6/10/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-2' Topsoil, Brown SW	PID (0'-2'): 0.0
			2'-3' Dark Tan SW	
				PID (2'-4'): 0.0
4-8	4'	3'6"	4'-6'6" Yellowish Tan SW	PID (4'-6'): 0.0
			6'6"-7'6" Dark Tan SP	
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan SW	PID (8'-10'): 0.0

Casing depth:
Screen depth:

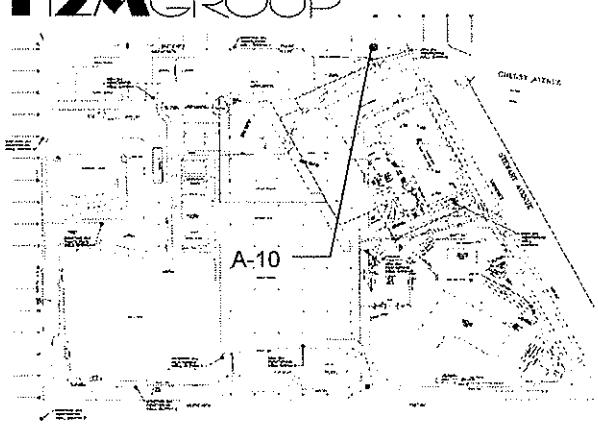
H2MGROUP



Boring # A-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/10/05		
COMPLETION TIME:	DATE: 6/10/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-2' Top soil, SW	PID (0'-2'): 0.0
			2'-2'6" Top soil, black SP	
				PID (2'-4'): 0.0
4-8	4'	3'6"	4-5'6" Top soil, SP	PID (4'-6'): 0.0
			5'6"-7'6" Yellowish tan SW	
				PID (6'-8'): 0.0
8-10	2'	1'6"	8'-9'6" Yellowish Tan SW	PID (8'-10'): 0.0

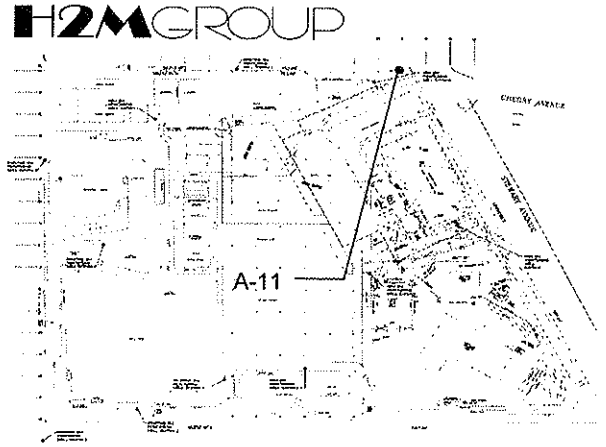
H2MGROUP



Boring # A-10	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/10/05		
COMPLETION TIME:	DATE: 6/10/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-1' Top soil, Brown SP	PID (0'-2'): 0.0
			1'-2' Tan SW	
			2'-3' Black/tan SW	PID (2'-4'): 0.0
4-8	4'	3'	4'-7' Light brown SW	PID (4'-6'): 0.0
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Light brown SW	PID (8'-10'): 0.0

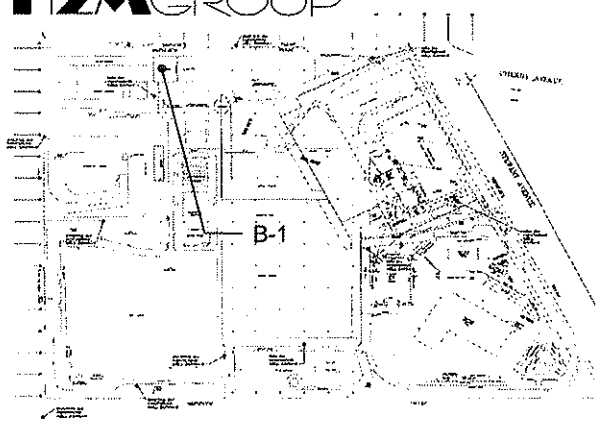
H2MGROUP



Boring # A-11	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME: 14:25		DATE: 6/10/05	
COMPLETION TIME:		DATE: 6/10/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0-3" Black top soil	PID (0'-2'): 3.8
			3"-1' Light brown SP	
			1'-2'6" Brown/tan SP w/ some cobble	PID (2'-4'): 0.0
4-8	4'	3'	4'-7' Yellow Tan SW	PID (4'-7'): 1.7
8-10	2'	2'	8'-10' Yellow Tan SW	PID(8'-10'): 1.4

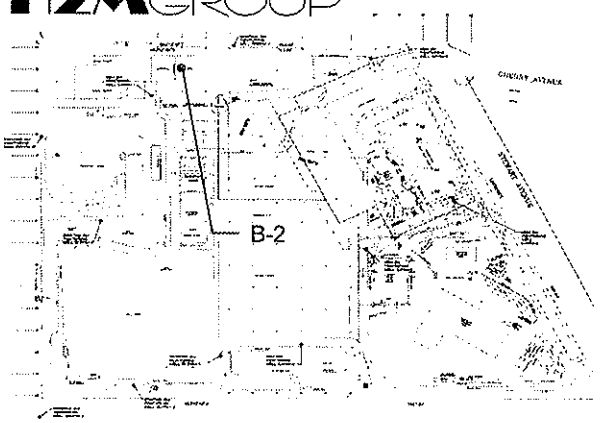
H2MGROUP



Boring # B-1	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:		PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:	total depth	60'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/8/05		
COMPLETION TIME:	DATE: 6/8/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	17"	Silty sands, stone, medium sands	PID (0'-2'): 0.0
2-4	2'	12"	Medium sands, some stone	PID (2'-4'): 0.0
8-10	2'	16"	8" Brown med sands, 8" tan med sands, stone	PID (8'-10'): >2000 MS/MSD
18-20	2'	15"	Brown med. Sands, stone	PID (18'-20'): 438
28-30	2'	12"	Mostly coarse to gravelly sands	PID (28'-30'): 101 BD
38-40	2'	22"	9" Coarse to gravelly, remainder white med. Sands	PID (38'-40'): 78
48-50'	2'	23"	Mostly white med. Sands, 6" tan silts	PID (48'-50'): 205
58-60	2'	24"	Tan, white coarse med. Sands	PID (58'-60'): 38.3
NO LAB				
4-6	2'	21"	7" Subbase material, 14" coarse to gravelly	PID (4'-6'): > 2000
6-8	2'	24"	17" Brown sands, 7" coarse to gravelly	PID (6'-8'): > 2000

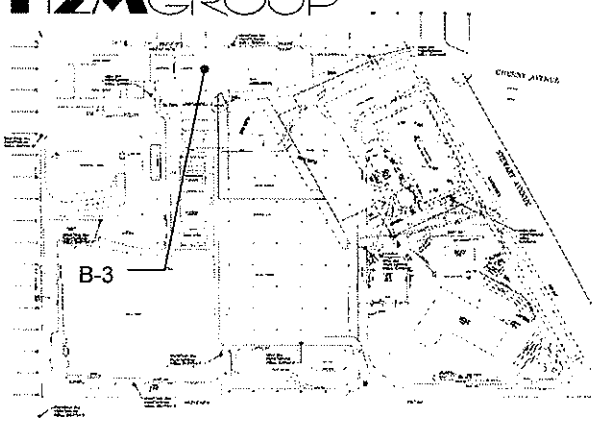
H2MGROUP



Boring # B-2	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: Tripod w/ Hammer			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/23/05		
COMPLETION TIME:	DATE: 6/23/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	1'	0'-1' Tan, sandy SW w/ cobble	PID (0'-2'): 0.0
2-4	2'	2'	2'-4' Brown, tan sandy SW w/ crushed rock & cobble	PID (2'-4'): 0.0
4-6	2'	1'	4'-4'3" Brown SP	PID (4'-6'): 0.0
			4'3"-5' Tan, sandy SW w/ cobble crushed rock	
6-8	2'	1'	6'-7' Tan SW w/ cobble & large crushed rock	PID (6'-8'): 0.0
8-10	2'	1'	8'-9' Tan/brown sandy SW w/ cobble	PID (8'-10'): 0.0

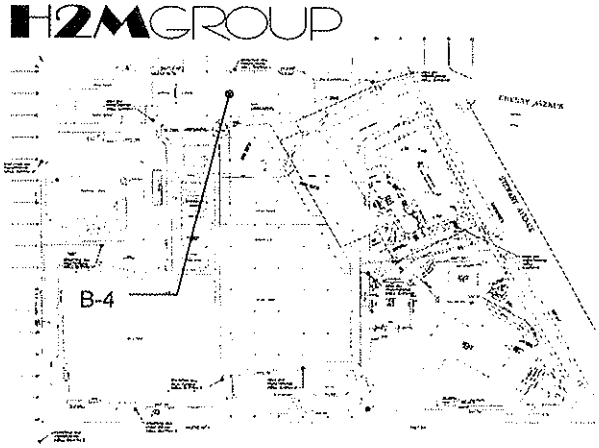
H2MGROUP



Boring # B-3	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/8/05	
COMPLETION TIME:		DATE: 6/8/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	2'	0'-1'6" Top Soil, black SP	PID (0'-2'): 0.0
			1'6"-2' Yellowish Orange SM	
2-4	2'	1'6"	2'-3' Yellowish Tan SP	PID (2'-4'): 0.0
			3'-3'6" Tan SW	
4-6	2'	1'	4'-5' Tan, sandy SW w/ cobble	PID (4'-6'): 0.0
6-8	2'	1'6"	6'-7'6" Yellowish Tan SW	PID (6'-8'): 29.6
8-10	2'	1'	8'-9'6" Yellowish Tan SW	PID (8'-10'): 26.0
18-20	2'	1'	18'-18'6" Brownish red SM	
			18'6"-19' Tan, sandy SW w/ cobble	PID (18'-20'): 36.2
28-30	2'	1'	28'-29' Tan, sandy SW w/ cobble	PID (28'-30'): 11.4
38-40	2'	1'	38'-38'6" Brown, moist SM	
			38'6"-39' Tan, sandy SW w/ cobble	PID (38'-40'): 30.6
48-50	2'	1'6"	48'-48'6" Brown SW w/ cobble	
			48'6"-49'6" Tan/yellow SW w/ sand	PID (48'-50'): 36.8
58-60	2'	1'	58'-58'4" Brown SW w/ cobble	
			58'4"-59' Tan, sandy SW	PID (58'-60'): 65.8

H2MGROUP

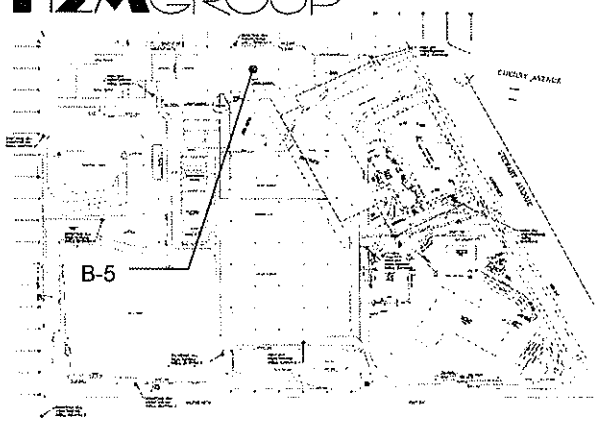


Boring # B-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/3/05		
COMPLETION TIME:	DATE: 6/3/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	1'-1'6" Brown soil, rich, some grass, roots, cobble	PID (0'-2'): 0.0
			1'6"-3' Tan SW w/cobble	
			3'-3'6" Tan SM	PID (2'-4'): 0.0
4-8	4'	3'	4'-4'6" Tan/copper SW w/ cobble	PID (4'-6'): 0.0
			4'6"-5'6" Gray SM, clay	
			5'6"-7' Tan SW w/ cobble	PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan SW w/ cobble	PID (8'-10'): 0.0

Casing depth:
Screen depth:

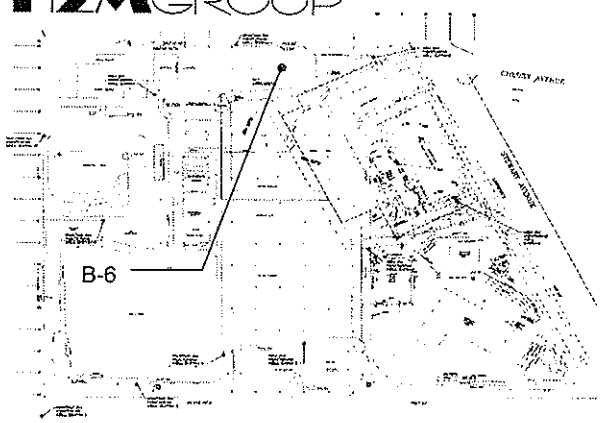
H2MGROUP



Boring # B-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/9/05	
COMPLETION TIME:		DATE: 6/9/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	18"	Topsoil	PID (0'-2'): 442	
2-4	2'	15"	Topsoil, silty sands	PID (2'-4'): ND * BD	
4-6	2'	16"	Coarse to gravelly sands	PID (4'-6'): ND	
6-8	2'	10"	Coarse to gravelly sands	PID (6'-8'): ND	
8-10	2'	18"	Coarse to gravelly sands	PID (8'-10'): ND	
18-20	2'	24"	Coarse to gravelly sands		
				PID (18'-20'): ND	
28-30	2'	24"	8" Coarse to gravelly, 16" medium sands	PID (28'-30'): ND	
38-40	2'	19"	15" Medium sands, 4" gravelly sands		
				PID (38'-40'): ND	
48-50	2'	24"	Coarse to gravelly sands		
				PID (48'-50'): ND	
58-60	2'	24"	Coarse to gravelly sands		
				PID (58'-60'): ND	

H2MGROUP

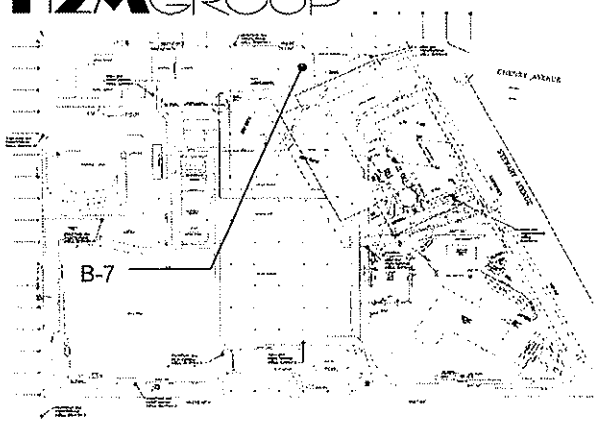


Boring # B-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:			
COMPLETION TIME:			
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	0'-1'6" Brown, rich SW w/ cobble	PID (0'-2'): 0.0
			1'6"-3'6" Tan CL w/ small amount of cobble, fine grains	
				PID (2'-4'): 0.0
4-8	4'	4	4'-5' Brown SW, little cobble	PID (4'-6'): 0.0
			5'-8' Tan SW, cobble	
				PID (6'-8'): 0.0
8-10	2'	1'6"	8'-8'6" Tan SW w/ rocks	PID (8'-10'): 0.0
			8'6"-9' Brown SM	
			9'-9'6" Tan SW w/ cobble	

Casing depth:
Screen depth:

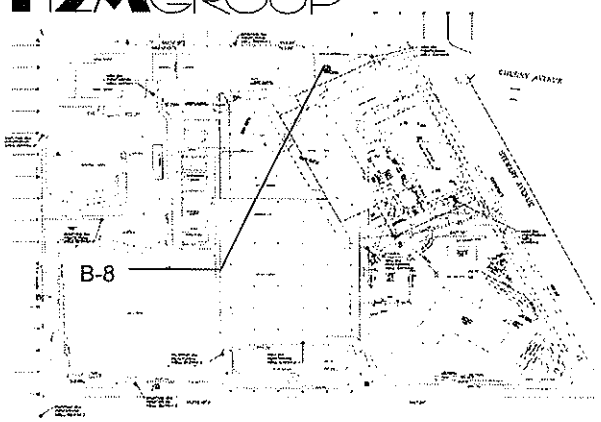
H2MGROUP



Boring # B-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HOLLOW STEM AUGER			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/7/05	
COMPLETION TIME:		DATE: 6/7/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	1'	0-6" Top soil, SW grass, roots	PID (0'-2'-): 214	
			6"-1' Brown/ tan SW w/ cobble		
2-4	2'	1'	2'-3' Tan SW w/ cobble	PID (2'-4'-): 40.2	
4-6	2'	1'6"	4'-4'6" Brown SW w/ cobble		
			4'6"-5'6" Tan, sandy SW w/ cobble	PID (4'-6'): 19.2	
6-8	2'	1'	6'-7' Mix of Tan/brown sandy SW w/ crushed rock and cobble	PID (6'-8'-): 11.1	
8-10	2'	1'6"	8'-9'6" Tan/ brown sandy SW w/ cobble	PID (8'-10'): 0.0	
18-20	2'	1'	18'-19' Dark tan sandy SW w/ cobble	PID (18'-20'): 36.5	
28-30	2'	0	NO RECOVERY	N/A	
38-40	2'	1'	38'-38'6" Dark brown SW w/ rock		
			38'6"-39' Tan SW w/ cobble	PID (38'-40'): 4.5	
48-50	2'	1'	48'-48'6" Copper colored SM		
			48'6"-49' Tan, sandy SW	PID (48'-50'): 0.0	
58-60	2'	2'	58'-60' Wet, sandy SW	PID (58'-60'): 0.0	

H2MGROUP

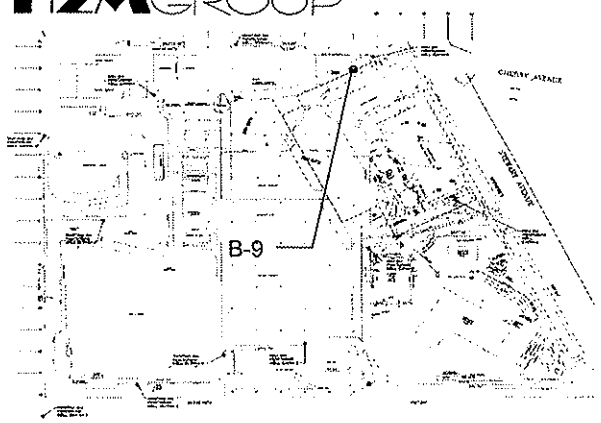


Boring # B-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/14/05		
COMPLETION TIME:	DATE: 6/14/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-1'6" Tan SW w/ cobble	PID (0'-2'): 0.0
			1'6"-2' Brown SM	
			2'-2'6" Tan, sandy SW	PID (2'-4'): 0.0
4-8	4'	3'	4'-5'6" Gray/tan sandy SW	PID (4'-6'): 0.0
			5'6"-6'6" Tan, wet SM	
			6'6"-7' Tan, sandy SW w/ cobble	PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble	PID (8'-10'): 0.0

Casing depth:
Screen depth:

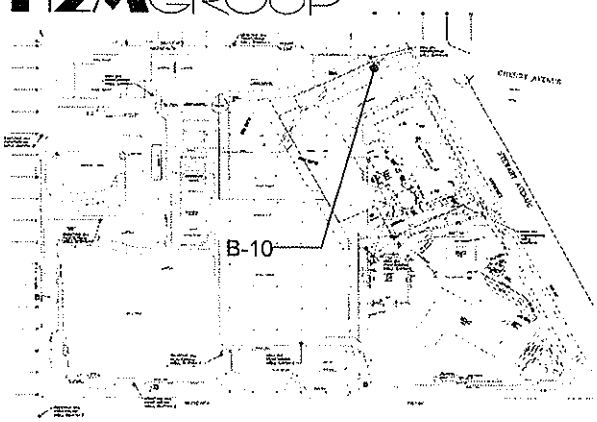
H2MGROUP



Boring # B-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HOLLOW STEM AUGER			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	60'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/9/05		
COMPLETION TIME:	DATE: 6/9/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	1'	0'-1' Brown, sandy SW w/ cobble	PID (0'-2'): 16.2
2-4	2'	1'6"	2'-2'6" Brown SW	
			2'6"-3' Crushed rock	
			3'-3'6" Tan, sandy SW	PID (2'-4'): 15.2
4-6	2'	1'6"	4'-5'6" Tan, sandy SW w/ cobble	PID (4'-6'): 18.0
6-8	2'	1'	6'-7' Tan, sandy. Very cobbley	PID (6'-8'): 0.0
8-10	2'	1'	8'-9' Yellowish/tan sandy SW	PID (8'-10'): 0.0 BD
18-20	2'	1'	18'-19' Brown/tan SW w/ cobble	PID (18'-20'): 0.0
28-30	2'	1'	28'-29' Brown/tan SW w/ cobble	PID (28'-30'): 3.1
38-40	2'	1'	38'-39' Copper/tan SW	PID (38'-40'): 0.0
48-50	2'	1'	48'-49' White, sandy SW	PID (48'-50'): 0.0
58-60	2'	1'	58'-59' Tan, moist, sandy SW	PID (58'-60'): 0.0

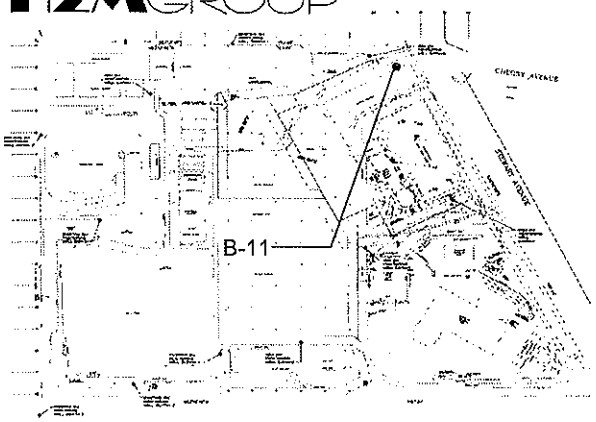
H2MGROUP



Boring # B-10	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/17/05		
COMPLETION TIME:	DATE: 6/17/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	4'	0-4" Brown Top Soil, Grass	PID (0'-2'): 0.0
			4"-1' Tan SP	
			1-4' Tan SW w/ clay, little cobble small area of SP	PID (2'-4'): 0.0
4-8	4'	4'	4'- 6' Brown SW w/ areas of clay mixed in & cobble	PID (4'-6'): 0.0
			6'- 8' Tan, Sandy SW w/ small bits of cobble	
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Brown, clumpy SW w/ cobble	PID (8'-10'): 0.0

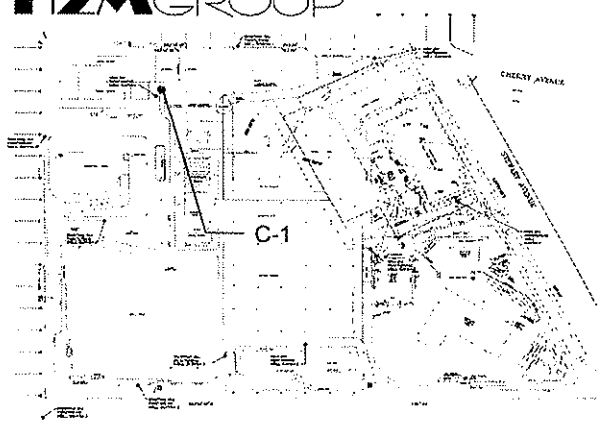
H2MGROUP



Boring # B-11	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: HOLLOW STEM AUGER			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/13/05	
COMPLETION TIME:		DATE: 6/13/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0'-2'	2'	22"	3" Asphalt, 5" concrete, 14" medium to course w/ rock	PID (0'-2'): 1473 * MS/MSD
2'-4'	2'	18"	Medium to course sands	PID (2'-4'):973
4'-6'	2'	13"	Course-gravelly sands	PID (4'-6'): 66.1
6'-8'	2'	24"	Course-gravelly sands	PID (6'-8'): ND
8'-10'	2'	14"	Course-gravelly sands	PID (8'-10'): ND
18'-20'	2'		No recovery, rock in spoon	
20-23	2'	18"	Crushed rock, course, gravelly sand	PID (18'-20'): ND
28'-30'	2'	11"	Medium-course, some gravel, rock	PID (28'-30'): ND * BD
38'-40'	2'	20"	Medium-course, gravelly sands, some clay	
				PID (38'-40'): ND
48'-50'	2'	24"	Mostly medium sands, some course, some clay	
				PID (48'-50'): ND
58'-60'	2'	17"	Mostly medium sands, some clay	
				PID (58'-60'): ND

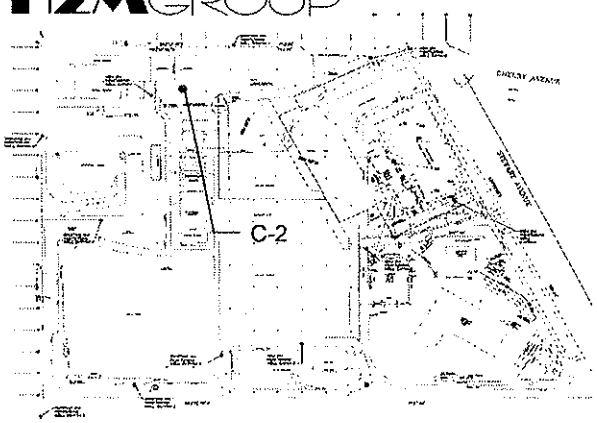
H2MGROUP



Boring # C-1	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/7/05	
COMPLETION TIME:		DATE: 6/7/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0-1' Brown Top Soil, Grass	PID (0'-2'): 0.0
			1-2' Brown SW w/ cobble	
			refusal at 2-4 ft	PID (2'-4'): 0.0
4-8	4'	2'6"	4'- 8' Tan, Sandy SW w/ small bits of cobble	PID (4'-6'): 0.0
				PID (6'-8'): 0.0
8-10	2'	2'	8'- 8'6" Gray, sandy SW	PID (8'-10'): 0.0
			8'6"- 9' Brown, SW w/ cobble	
			9'-10' Tan, sandy SW	

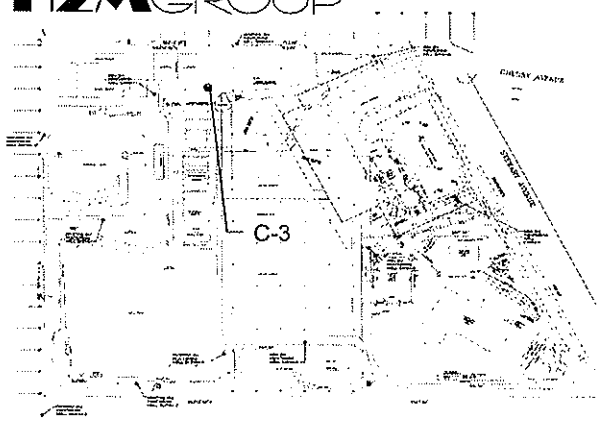
H2MGROUP



Boring # C-2	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
		DATE: 6/7/05	
		DATE: 6/7/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	0-1' Brown Top Soil, Grass	PID (0'-2'): 0.0 BD
			1-3' Tan/brown sandy SW w/ cobble	
			3-3'6"' Tan SW w/ clay	PID (2'-4'): 0.0
4-8	4'	3'6"	4'- 5' Brown/ Tan SW	PID (4'-6'): 0.0
			5'-6' Gray clay SM	
			6'-8' Tan, sandy SW	PID (6'-8'): 0.0
8-10	2'	1'	8'-9' Brown SM, small amount of cobble	PID (8'-10'): 0.0

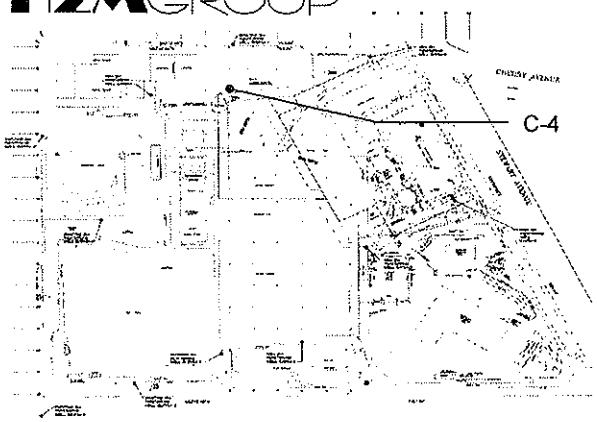
H2MGROUP



Boring # C-3	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/6/05	
COMPLETION TIME:		DATE: 6/6/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	4'	0'-2" Grass, rock, cobble, Brown SW	PID (0'-2'): 0.0
			2"-3' Brown SW w/ cobble	
			3'-4' Tan SW, sand, cobble	PID (2'-4'): 0.0
4-8	4'	4'	4'-4'6" Tan SW w/ cobble	PID (4'-6'): 0.0
			4'6"-6' Brown SW w/ cobble	
			6'-8' Tan SW w/ sand & cobble	PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan SW, compact, moist	PID (8'-10'): 0.0

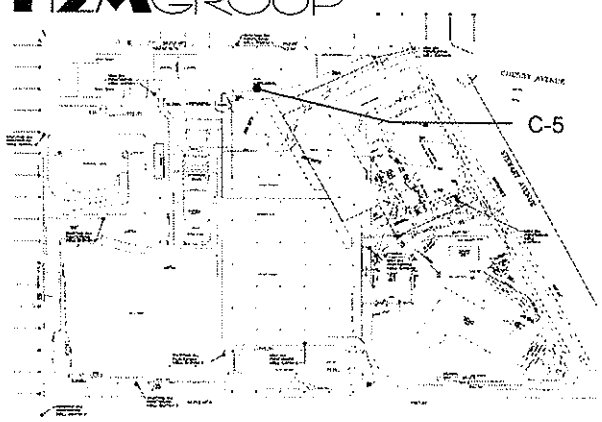
H2MGROUP



Boring # C-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/2/05	
COMPLETION TIME:		DATE: 6/2/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'	0'-2" Grass, roots, cobble	PID (0'-2'): 0.0	
			2"-1'6" Brown soil, some cobble, SP		
			1'6"-3' Brown, SP w/ cobble	PID (2'-4'): 0.0	
4-8	4'	4'	4'-4'6" Brown SW w/ roots	PID (4'-6'): 0.0	
			4'6"-6' Moist, Brown SW		
			6'-7' Moist Gray SW	PID (6'-8'): 0.0	
			7'-8' Wet, Gray SW w/ cobble		
8'-10	2'	2'	8'-8'6" Gray/ brown SW w/ cobble, moist	PID (8'-10'): 0.0	
			8'6"-9'6" Dark Tan SW, cobble		
			9'6"-10' Tan, sandy SW w/ cobble		

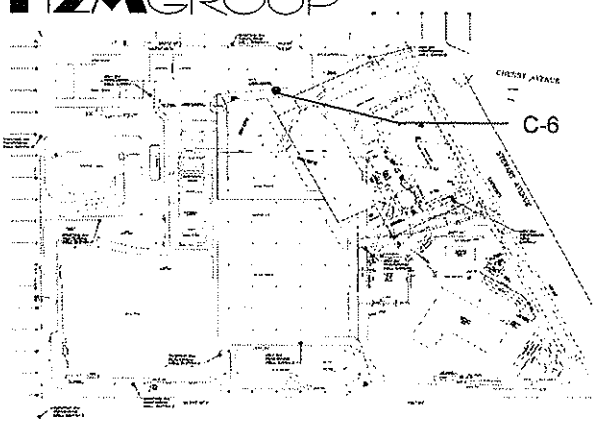
H2MGROUP



Boring # C-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/6/05		
COMPLETION TIME:	DATE: 6/6/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-2" Grass, roots, leaves	PID (0'-2'): 0.0
			2"-2'6" Soil, organic, brown SW. little cobble	
				PID (2'-4'): 0.0
4-8	4'	2'	Recovery fell into bore hole, only recovered 2" Brown SW	PID (4'-6'): 0.0
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Brown SW w/ cobble	PID (8'-10'): 0.0 *BD

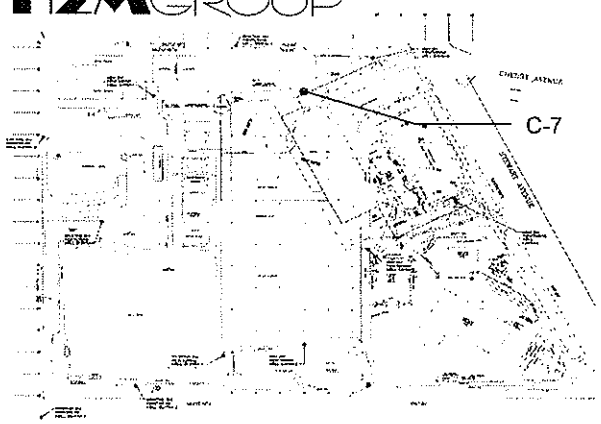
H2MGROUP



Boring # C-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/6/05	
COMPLETION TIME:		DATE: 6/6/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'6"	0'-2" Grass, roots	PID (0'-2'): 0.0	
			2"-2' Brown SW w/ cobble		
				PID (2'-4'): 0.0	
4-8	4'	3'	4'-4'6" Brown/tan SW, some cobble	PID (4'-6'): 0.0	
			4'6"-7' Brown SW, some cobble, moist		
				PID (6'-8'): 0.0	
8-10	2'	2'	8'-9' Black, organic SM	PID (8'-10'): 0.0	
			9'-10' Tan SW		

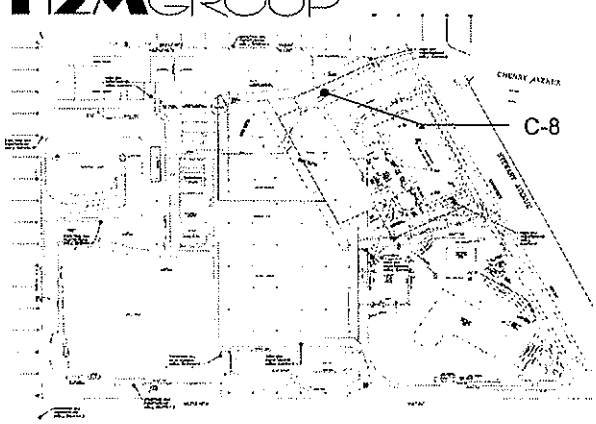
H2MGROUP



Boring # C-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/6/05	
COMPLETION TIME:		DATE: 6/6/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	0'-1' Brown SM	PID (0'-2'): 0.0
			1'-2' Brown SM, cobble	
			2'-3'6" Brown SW, large rocks, cobble	PID (2'-4'): 0.0
4-8	4'	4'	4'-4'6" Brown SM, little cobble	PID (4'-6'): 0.0
			4'6"-8' Brown SW, compact, some cobble	
				PID (6'-8'): 0.0
8-10	2'	1'6"	8'-9' Gray Brown SW w/ cobble, compact	PID(8'-10'): 0.0
			9'-9'6" Tan/ brown SW w/ cobble	

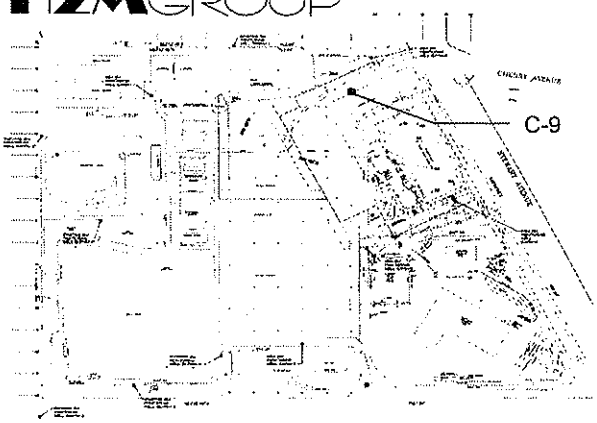
H2MGROUP



Boring # C-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/14/05	
COMPLETION TIME:		DATE: 6/14/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'6"	0'-2" Grass, roots, top soil w/ cobble	PID (0'-2'): 0.0	
			2"-2' Brown SW w/ cobble		
			2'-2'6" Brown SM	PID (2'-4'): 0.0	
4-8	4'	3'	4'-6' Brown moist SM	PID (4'-6'): 0.0	
			6'-7' Tan SM		
			7'-8' Brown, sandy SW	PID (6'-8'): 0.0	
8-10	2'	2'	8'-10' Tan/ brown sandy SW w/ cobble	PID (8'-10'): 0.0	

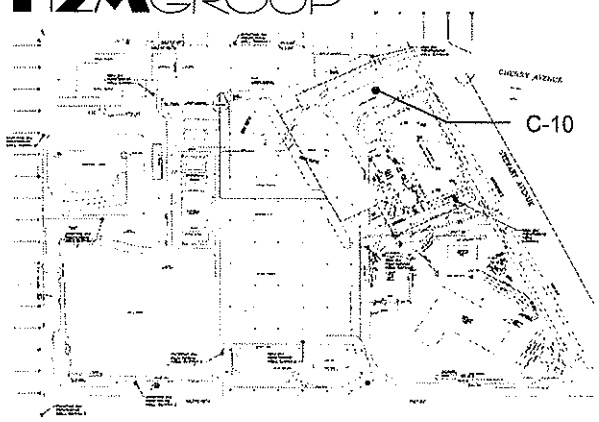
H2MGROUP



Boring # C-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/13/05	
COMPLETION TIME:		DATE: 6/13/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'	0'-4" Asphalt, concrete	PID (0'-2'): 0.0	
			4"-1'6" Tan, sandy SW		
			1'6"-3" Brown, Gray SW with areas of silt	PID (2'-4'): 0.0	
4-8	4'	4'	4'-6' Tan/copper sandy SW w/ cobble	PID (4'-6'): 0.0	
			6'-8' Gray, moist SM w/ fine cobble		
				PID (6'-8'): 0.0	
8-10	2'	2'	8'-10' Tan Sandy SW w/ cobble	PID (8'-10') : 0.0 *BD	

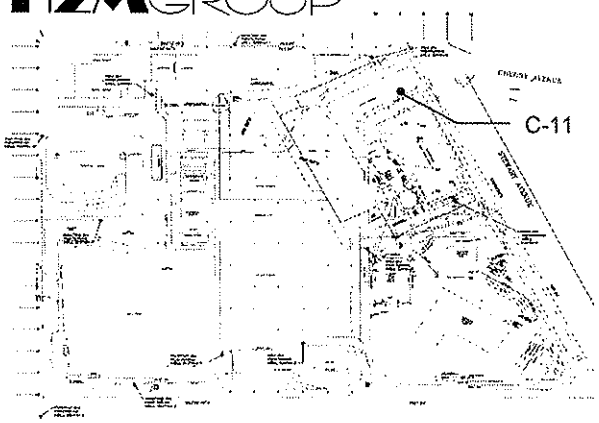
H2MGROUP



Boring # C-10	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/13/05	
COMPLETION TIME:		DATE: 6/13/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	1'	0-1' Brown SW w/ cobble, some clay	PID (0'-2'): 0.0
				PID (2'-4'): 0.0
4-8	4'	1'	4'-5' Tan/gray sandy SW w/ cobble & crushed rock	PID (4'-6'): 0.0
				PID (6'-8'): 0.0
8-10	2'	6"	little recovery gray/ tan SW	PID (8'-10') : 0.0

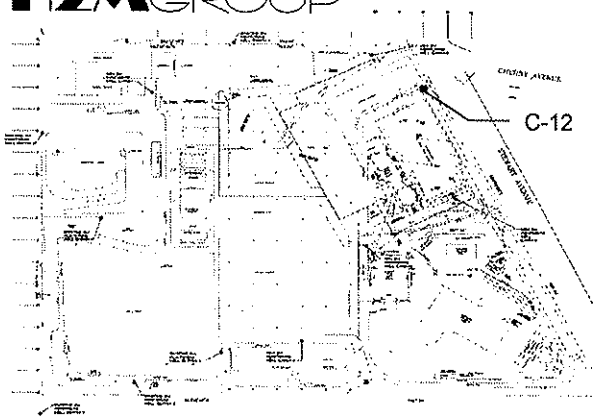
H2MGROUP



Boring # C-11	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/13/05		
COMPLETION TIME:	DATE: 6/13/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'	0'-2" Asphalt	PID (0'-2'): 0.0	
			2"-1' Tan SW, moist		
			1'-2' Tan SM mixed w/ clay	PID (2'-4'): 0.0	
4-8	4'	3'	4'-5' Tan/ gray compact SW, w/ cobble	PID (4'-6'): 0.0	
			5'-7' Tan/ copper SW w/ cobble		
				PID (6'-8'): 0.0	
8-10	2'	2'	8'-10' Tan, sandy SW	PID (8'-10') : 0.0	

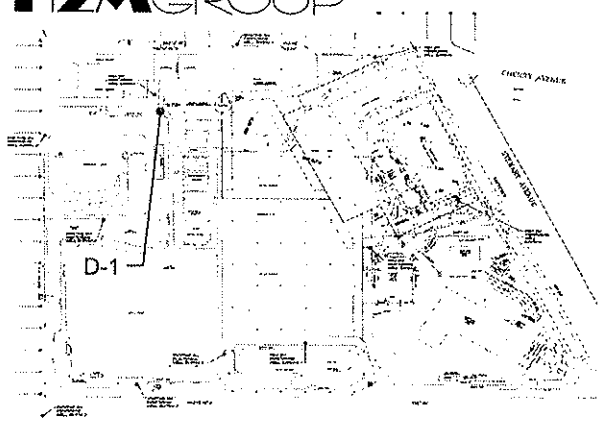
H2MGROUP



Boring # C-12	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/13/05		
COMPLETION TIME:	DATE: 6/13/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	1'	Little recovery	PID (0'-2'): 0.0
			0'-6" Top soil, grass, roots	
			6"-1' Tan, sandy SW w/ cobble	PID (2'-4'): 0.0
4-8	4'	3'	4'-5' Brown sandy SW	PID (4'-6'): 0.0
			5'-8' Tan, sandy SW w/ cobble	
				PID (6'-8'): 0.0
8-10	2'	2'	8'-9' Brown SM w/ small cobble	PID (8'-10') : 0.0
			9'-10' Tan, sandy SW	

H2MGROUP

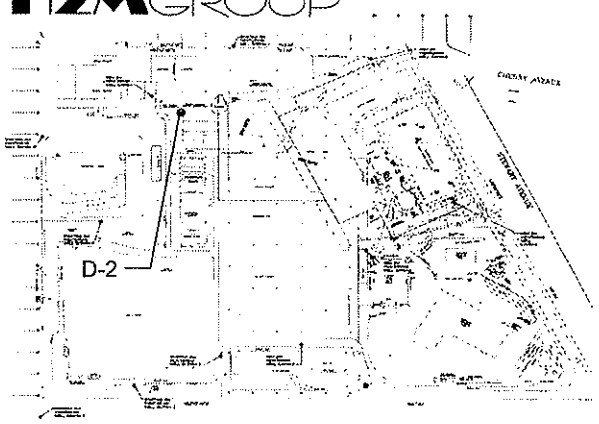


Boring # D-1	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/16/05	
COMPLETION TIME:		DATE: 6/16/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	17"	Asphalt, medium sand, stone	PID (0'-2'): 31
2-4	2'	13"	Medium sand, stone	PID (2'-4'): 136
4-6	2'	16"	Medium gravelly sand	PID (4'-6'): 142
6-8	2'	16"	Medium- coarse, gravelly w/ stone	PID (6'-8'): 94
8-10	2'	17"	5" Brown medium sand	PID (8'-10'): 27
			12" Coarse to gravelly	
18-20	2'	14"	Coarse to gravelly, some rock	PID (18'-20'): NA
				Resume boring on 6/17/05
28-30	2'	6"	Coarse, gravelly	PID (28'-30'): 2.7
38-40	2'	15"	Medium-coarse w/ some cobble	PID (38'-40'): 12.1 *BD
48-50	2'	24"	Medium-coarse w/ some gravel	PID (48'-50'): 2.9
58-60	2'	24"	Medium sands	PID (58'-60'): 0.9

Casing depth:
Screen depth:

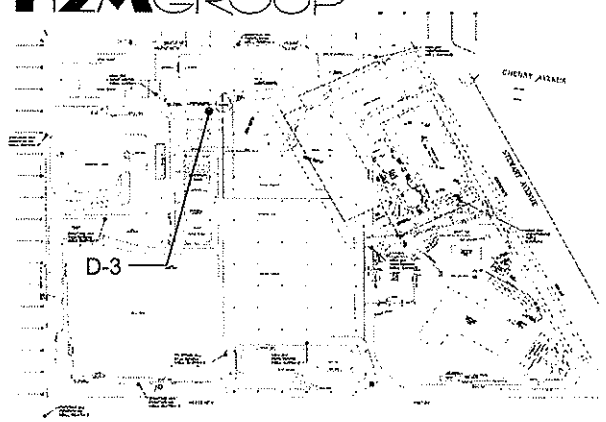
H2MGROUP



Boring # D-2	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/13/05		
COMPLETION TIME:	DATE: 6/13/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	0'-6" Top soil, grass, roots	PID (0'-2'): 0.0
			6"-3' Brown SW w/ cobble, rocks	
			3'-3'6" Tan, sandy SW	PID (2'-4'): 0.0
4-8	4'	4'	4'-5'6" Brown SW, cobble	PID (4'-6'): 0.0
			5'6"-7'6" Tan, sandy SW w/ cobble	
			7'6"-8' Brown SW	PID (6'-8'): 0.0
8-10	2'	2'	8'-9' Brown SW w/ cobble	PID (8'-10') : 0.0
			9'-10' Tan, sandy SW	

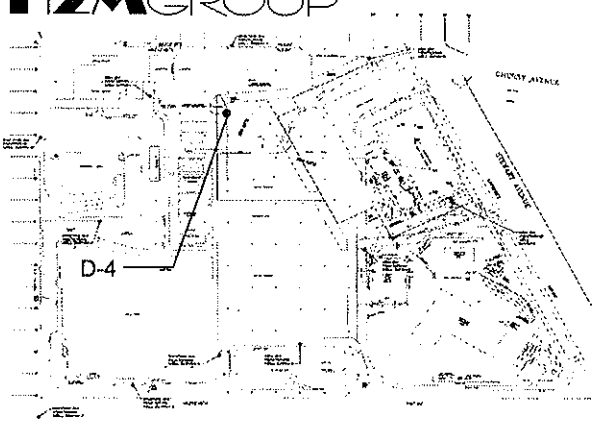
H2MGROUP



Boring # D-3	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	60'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/13/05		
COMPLETION TIME:	DATE: 6/13/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	22"	Topsoil, coarse gravelly sand	PID (0'-2'): 0.0
2-4	2'	10"	Topsoil, stone	PID (2'-4'): 9.0
4-6	2'	18"	Topsoil, stone	PID (4'-6'): 0.0
6-8	2'	9"	Silty sand, stone	PID (6'-8'): 0.0
8-10	2'	12"	Medium-coarse sand	PID (8'-10'): 0.1
18-20	2'	9"	Coarse-gravelly sand	PID (18'-20'): 0.1
28-30	2'	12"	Coarse-gravelly sand	PID (28'-30'): 37.5 *MS/MSD
38-40	2'	6"	Medium sands, white	PID (38-40'): 0.0
48-50	2'	16"	Mostly medium sands	PID (48'-50"): 5.6 *BD
58-60	2'	14"	Mostly medium sands	PID (58'-60'): 0.0

H2MGROUP

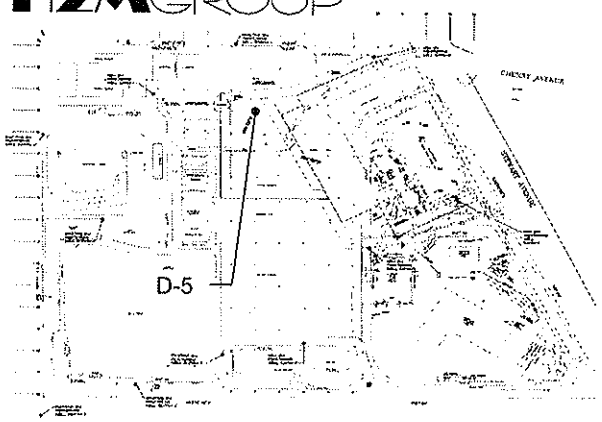


Boring # D-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/3/05		
COMPLETION TIME:	DATE: 6/3/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	4'	0'-1' Top soil, rich, brown SP w/ cobble	PID (0'-2'): 0.0
			1'-3' Brown SW w/ rocks	
			3'-4' Tan SW w/ cobble	PID (2'-4'): 0.0
4-8	4'	3'	4'-4'4" Gray SW w/ cobble	PID (4'-6'): 0.0
			4'4"-6' Gray/brown SW w/ cobble, moist	
			6'-7' Tan, SW moist, w/ cobble	PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Wet, gray/brown SW, moist, w/ cobble	PID (8'-10') : 0.0

Casing depth:
Screen depth:

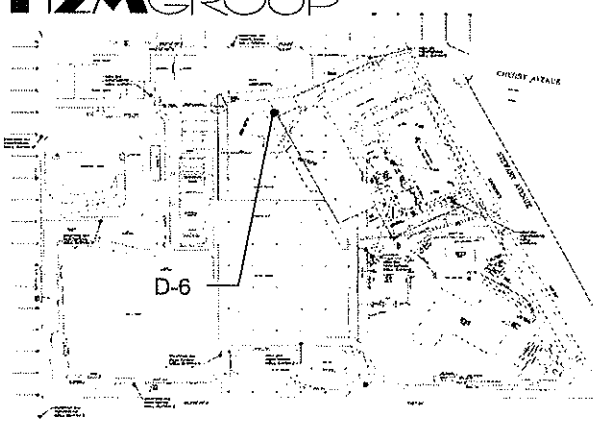
H2MGROUP



Boring # D-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/7/05	
COMPLETION TIME:		DATE: 6/7/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	15"	3" Silt/clay	PID (0'-2'): >2000 * Expanded list
	2'		12" topsoil	PID (2'-4'): >2000
2-4	2'	22"	Mostly topsoil & some stone	PID (4'-6'): > 2000
4-6	2'2	17"	Silty Brown sand, some stone	PID (6'-8'): > 2000
6-8	2'	10"	Silty Brown sand, some stone	PID (8'-10'): ND
8-10	2'	24"	Brown silty sand, some stone, wet	PID(18'-20'): ND
18-20	2'	8"	Mostly coarse gravelly sands	PID (28'-30'): ND
28-30	2'	9"	Mostly coarse gravelly sands	PID (38'-40'): >2000
38-40	2'	20"	Mostly medium sand, copper	PID (48'-50'): > ND
48-50	2'	10"	Mostly white med sands	PID (58'-60'): ND
58-60	2'	21"	Mostly medium tan sands	

H2MGROUP

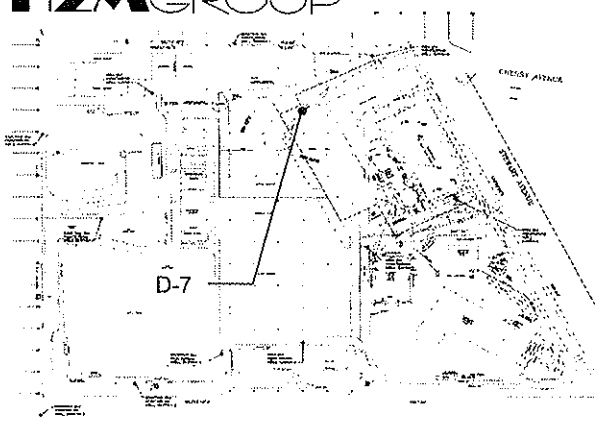


Boring # D-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/6/05	
COMPLETION TIME:		DATE: 6/6/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	0'-6" Grass, roots,	PID (0'-2'): 0.0
			6"-2' Brown SW, some cobble	
			2'-3'6" Brown/ Tan SW, cobble	PID (2'-4'): 0.0
4-8	4'	2'	4'-5' Brown SW, cobble	PID (4'-6'): 0.0
			5'-6' Tan SW, cobble	
				PID (6'-8'): 0.0
8-10	2'	2"	Little recovery, Brown SW	PID (8'-10') : 0.0

Casing depth:
Screen depth:

H2MGROUP

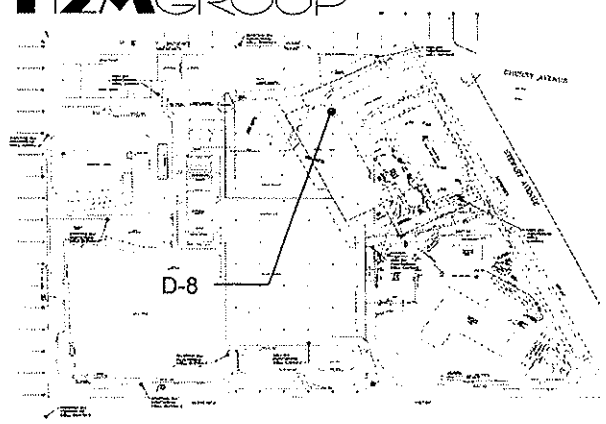


Boring # D-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type:	total depth	60'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/8/05		
COMPLETION TIME:	DATE: 6/8/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	14"	Subbase material	PID (0'-2'): 438
				PID (2'-4'): 14.7
2-4	2'	17"	Brown med sands, some stone	PID (4'-6'): 4.6
4-6	2'2	17"	Brown med sands, some stone	PID (6'-8'): 7.7
6-8	2'	24"	Dense silts, medium sands	PID (8'-10'): 7.3
8-10	2'	12"	Brown silts, medium sands, rock	PID(18'-20'): 197 *BD
18-20	2'	24"	7" Brown medium sand, 17" coarse gravel	PID (28'-30'): > 2000 *MS/MSD
28-30	2'	24"	Mostly coarse to gravelly sands	PID (38'-40'): ND
38-40	2'	24"	Mostly coarse to gravelly sands	PID (48'-50'): > ND
48-50	2'	20.5"	2" clays, 18.5" medium sands	PID (58'-60'): ND
58-60	2'	24"	Some clays, mostly medium sand	

Casing depth:
Screen depth:

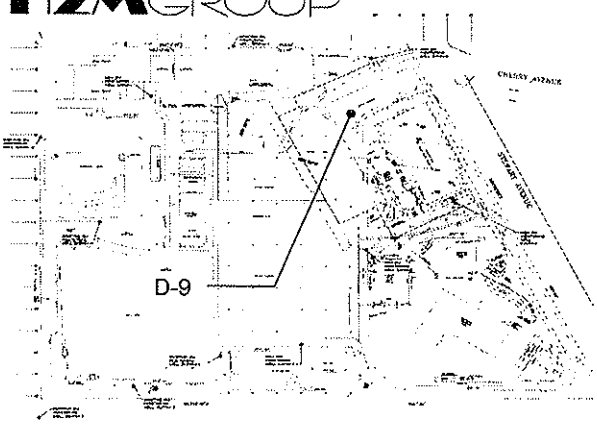
H2MGROUP



Boring # D-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/14/05	
COMPLETION TIME:		DATE: 6/14/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-1' Brown Topsoil w/ grass, cobble	PID (0'-2'): 0.0
			1'-3' Sandy tan SW	
				PID (2'-4'): 0.0
4-8	4'	3'6"	4'-5'6" Brown SW w/ cobble	PID (4'-6'): 0.0 BD
			5'6"-7'6" Tan SM w/ clay, cobble	
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan/ sandy SW w/ cobble	PID (8'-10') : 0.0

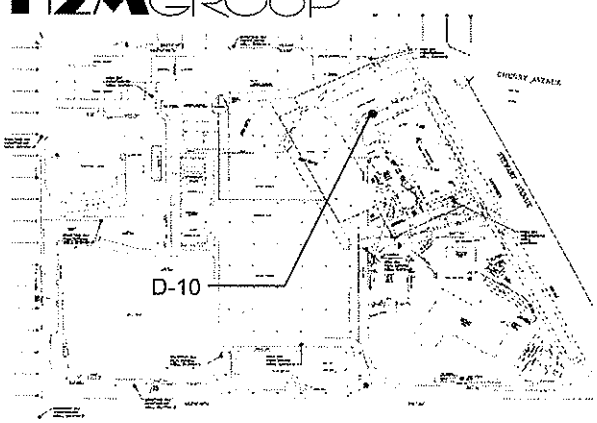
H2MGROUP



Boring # D-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/9/05	
COMPLETION TIME:		DATE: 6/9/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	20"	Dense, compacted medium sands, rock	PID (0'-2'): 178
				PID (2'-4'): 5.9
2-4	2'	24"	Mostly Medium sands, rock, gravel	PID (4'-6'): ND
4-6	2'2	15"	8" Gravelly sands, 7" medium sands	PID (6'-8'): 76.1
6-8	2'	23"	Mostly coarse-gravelly sands	PID (8'-10'): ND
8-10	2'	15"	Mostly medium-coarse, some gravel	PID(18'-20'): ND
18-20	2'	24"	Mostly coarse-gravelly sands	PID (28'-30'): ND
28-30	2'	17"	Coarse to gravelly	PID (38'-40'): 274
38-40	2'	20"	9" Coarse-gravelly, 6" clay, 6" White medium	PID (48'-50'): 338 *EXPANDED LIST
48-50	2'	22"	7" gravelly, 15" white coarse	PID (58'-60'): 162
58-60	2'	23"	9" gravelly, 14" white medium	

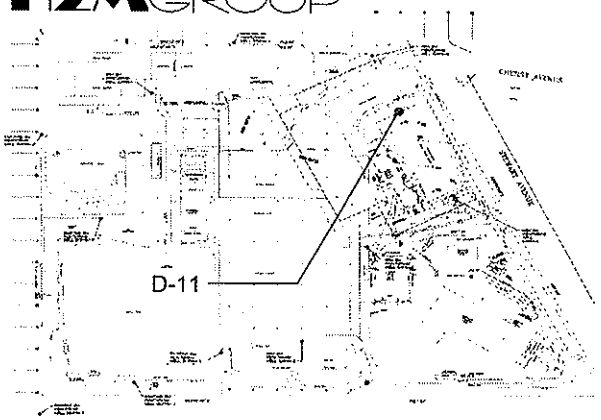
H2MGROUP



Boring # D-10	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/17/05	
COMPLETION TIME:		DATE: 6/17/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'	0'-6" Top soil, grass, roots	PID (0'-2'): 0.0	
			6"-2' Tan, sandy SWw/ cobble		
			2'-3' Brown SW w/ clay	PID (2'-4'): 0.0 *BD	
4-8	4'	4'	4'-5' Brown SW	PID (4'-6'): 0.0	
			5'-5'2" Crushed Rock		
			5'2"-8' Tan, sandy SW w/ cobble	PID (6'-8'): 0.0	
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble	PID (8'-10') : 0.0	

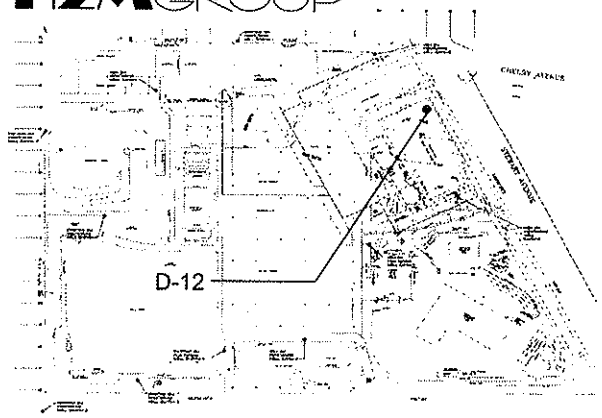
H2MGROUP



Boring # D-11	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/14/05	
COMPLETION TIME:		DATE: 6/14/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	18"	Topsoil, coarse sands, rock	PID (0'-2'): ND
2-4	2'	18"	Medium-coarse,some rock	PID (2'-4'): ND
4-6	2'	19"	Medium-coarse, some rock	PID (4'-6'): ND
6-8	2'	24"	Coarse-gravelly	PID (6'-8'): 0.8
8-10	2'	20"	Medium, coarse, gravelly sands, some rock	PID (8'-10'): ND
18-20	2'	19	Mostly coarse to gravelly sands	PID (18'-20'): ND
28-30	2'	24"	Mostly medium-coarse sands	PID (28'-30'): ND
38-40	2'	19"	Mostly crushed rock, some medium sands	PID (38'-40'): ND
48-50	2'	24"	Some medium sands and crushed rock	PID (48'-50'): ND
58-60	2'	24"	Mostly medium-coarse sands, some clay	PID (58'-60'): ND

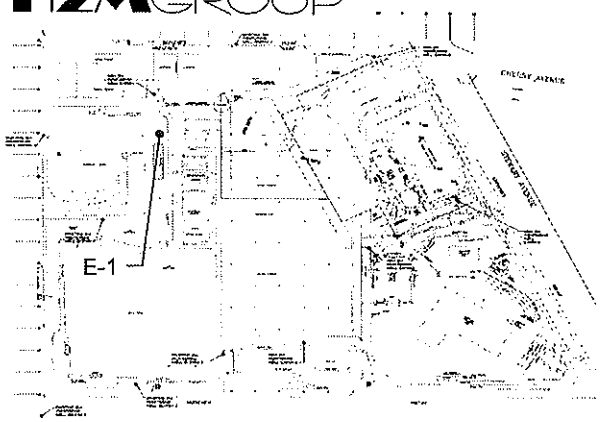
H2MGROUP



Boring # D-12	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/20/05	
COMPLETION TIME:		DATE: 6/20/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-6" Compact, Brown, sandy SW w/ cobble	PID (0'-2'): 0.0
			6"-3' Tan, sandy SW w/ cobble	
				PID (2'-4'): 0.0
4-8	4'	3'	4'-5' Brown SW w/ cobble	PID (4'-6'): 0.0
			5'-6' Tan, sandy SW	
			6'-6'3" Crushed Rock	PID (6'-8'): 0.0
			6'3"-7' Tan, sandy SP	
8-10	2'	2'	8'-10' Tan, Sandy SW w/ cobble	PID (8'-10'): 0.0

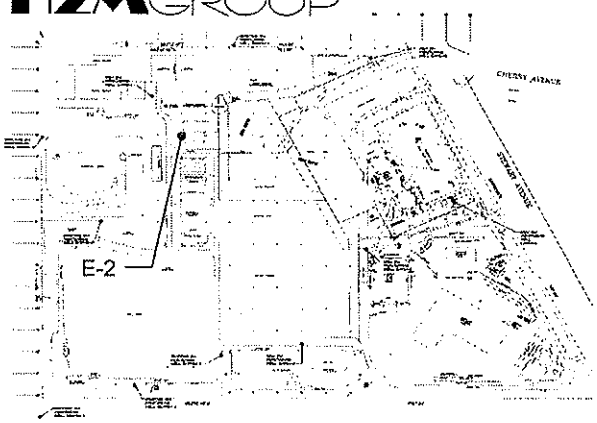
H2MGROUP



Boring # E-1	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/22/05	
COMPLETION TIME:		DATE: 6/22/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	4'	12" Topsoil	PID (0'-2'): 0.0
			6" Fine SW	
			2'6" Tan SW	PID (2'-4'): 0.0
4-8	4'	3'	3' Tan, sandy SW w/ cobble	PID (4'-6'): 0.0
				PID (6'-8'): 0.0
8-10	2'	2'	2' Tan, sandy SW	PID (8'-10') : 0.0

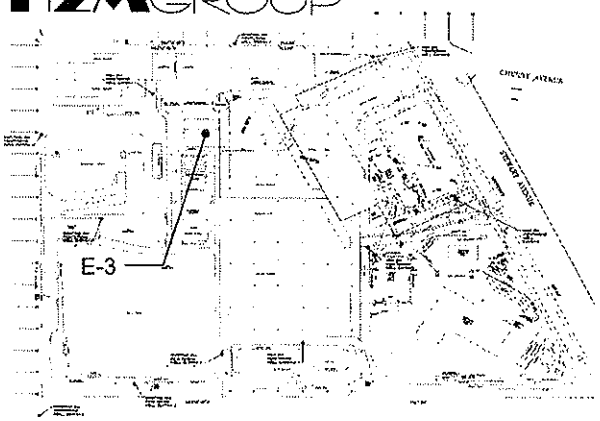
H2MGROUP



Boring # E-2	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/7/05	
COMPLETION TIME:		DATE: 6/7/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-1' Brown, compact SW w/ grass, roots, cobble	PID (0'-2'): 0.0
			1'-2'6" Brown SW w/ cobble	
				PID (2'-4'): 0.0
4-8	4'	3'6"	4'-5' Brown SW, compact w/ cobble	PID (4'-6'): 0.0
			5'-7'6" Tan, sandy SW	
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble	PID (8'-10') : 0.0

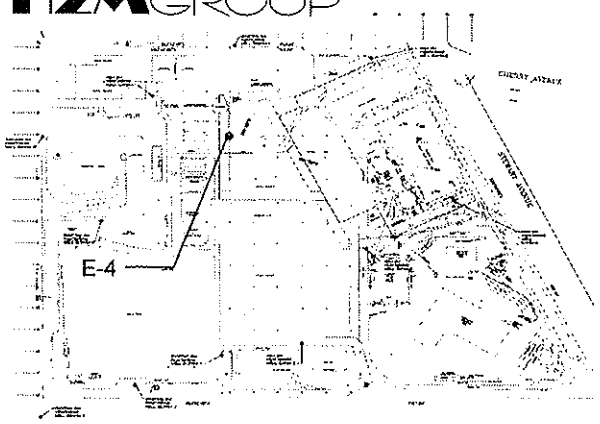
H2MGROUP



Boring # E-3	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/10/05		
COMPLETION TIME:	DATE: 6/10/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-3' Top soil w/ some yellow/ tan SW	PID (0'-2'): 0.0
				PID (2'-4'): 0.0
4-8	4'	4'	4'-4'6" Top soil	PID (4'-6'): 0.0
			4'6"-8' Sand, silt black/tan SM	
				PID (6'-8'): 0.0
8-10	2'	4'	8'-12' Black/tan SW	PID (8'-10') : 0.0
			Soil Gas 10' Canister # 6383	
			Pressure Start -30.1 psi @ 9:30 am	
			Pressure Stop -2 psi @ 10:10 am	

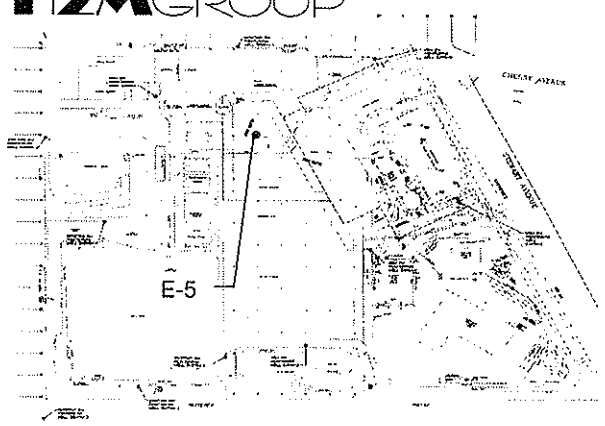
H2MGROUP



Boring # E-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/3/05	
COMPLETION TIME:		DATE: 6/3/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-1' Soil, grass, roots, Brown SW, some cobble	PID (0'-2'): 0.0
			1'-2'6" Brown SW, cobble	
			2'6"-3' Browb SM, moist	PID (2'-4'): 0.0
4-8	4'	3'	4'-5'6" Brown SM, moist	PID (4'-6'): 0.0
			5'6"-6'6" Tan SW, moist	
			6'6"-7' Brown SM	PID (6'-8'): 0.0
8-10	2'	2'	8'-9' Brown SW, cobble	PID (8'-10') : 0.0
			9'-10' Brown SM, silt	

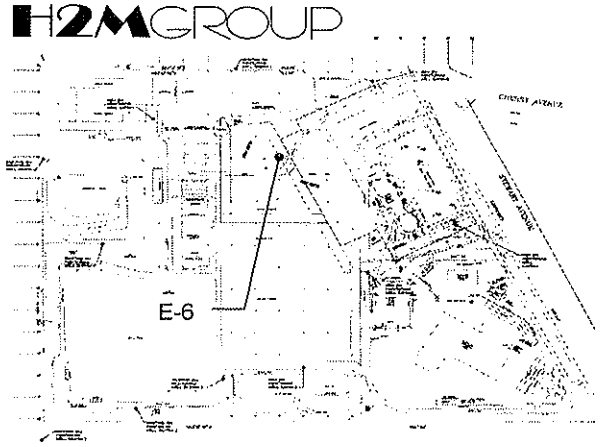
H2MGROUP



Boring # E-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/10/05	
COMPLETION TIME:		DATE: 6/10/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	4'	Top Soil w/ some yellow sand, SW	PID (0'-2'): 5.0	
				PID (2'-4'): 5.0	
4-8	4'	4'	Brown/ black SM	PID (4'-6'): 5.0	
				PID (6'-8'): 5.0	
8-10	2'	2'	6" Brown/ black SM	PID (8'-10') : 5.0	
			6" tan/yellow SM		
			3" Clay		
			9" yellow/tan SM		
			Soil Gas Canister #6417		
			Batch ID 6203VGBA		
			Pressure Start: -29.9 psi @ 8:39		
			Pressure Stop -2 psi @ 9:19		

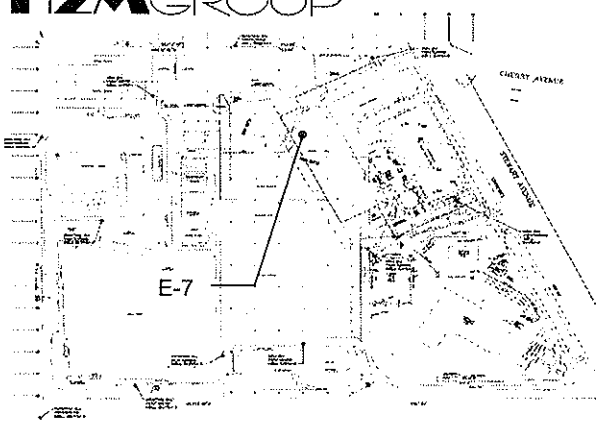
H2MGROUP



Boring # E-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/6/05	
COMPLETION TIME:		DATE: 6/6/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	4'	0'-6" Grass, roots, brown SM	PID (0'-2'): 0.0
			6"-3' Brown SW w/ some cobble	
			3'-4' Tan SW w/ cobble	PID (2'-4'): 0.0
4-8	4'	3'	4'-4'6" Tan SW w/ cobble	PID (4'-6'): 0.0
			4'6"-5' Brown SW	
			5'-7' Tan SW w/ cobble	PID (6'-8'): 0.0
8-10	2'	1'	8'-9' Tan SW w/ cobble	PID (8'-10'): 0.0

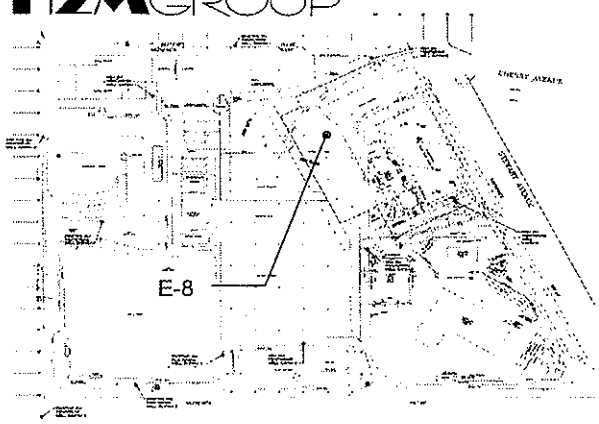
H2MGROUP



Boring # E-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	12'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/10/05		
COMPLETION TIME:	DATE: 6/10/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	0'-6" Gray sand fill SW	PID (0'-2'): 0.0
			6"-3'6" Tan/ yellow SW	
				PID (2'-4'): 0.0
4-8	4'	4'	4'-8' Yellowish tan w/ some gray SW	PID (4'-6'): 0.0
				PID (6'-8'): 0.0
8-12	4'	4'	8'-12' Yellowish tan SW, some cobble	PID (8'-10') : 0.0

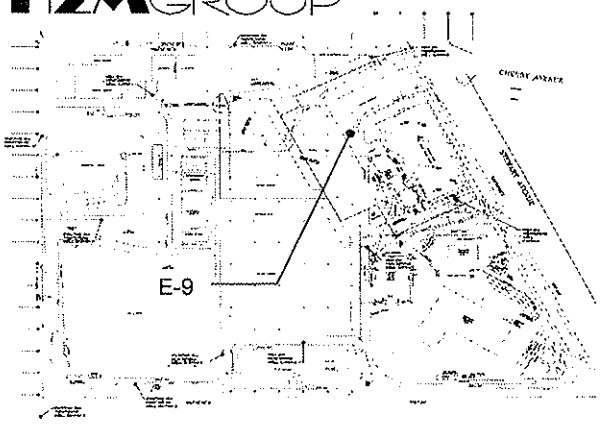
H2MGROUP



Boring # E-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/14/05		
COMPLETION TIME:	DATE: 6/14/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'	0'-2" Wet, moist gray asphalt	PID (0'-2'): 0.0
			2"-2' Tan SW w/ sand & cobble	
				PID (2'-4'): 0.0
4-8	4'	4'	4'-5' Dark tan sandy SW	PID (4'-6'): 0.0
			5'-8' Tan sandy SW w/ cobble	
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble, some areas of copper color	PID (8'-10'): 0.0

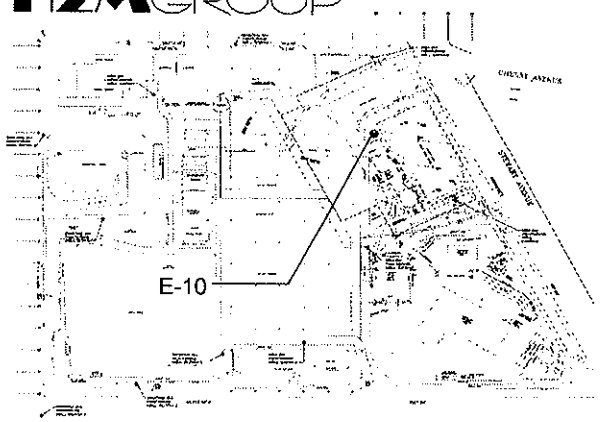
H2MGROUP



Boring # E-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/15/05		
COMPLETION TIME:	DATE: 6/15/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'6"	0'-6" Brown Top soil w/ grass, roots	PID (0'-2'): 0.0 BD	
			6"-3'6" Tan, sandy SW w/ cobble		
				PID (2'-4'): 0.0	
4-8	4'	3'	4'-5'6" Tan, sandy SM	PID (4'-6'): 0.0	
			5'6"-7' Tan, sandy SW w/ cobble		
				PID (6'-8'): 0.0	
8-10	2'	2'	* probe stuck in ground	PID (8'-10') : 0.0	
			8'-8'6" Tan, sandy SW		
			8'6"-9' Brown SM		
			8'-10' Tan, sandy SW		

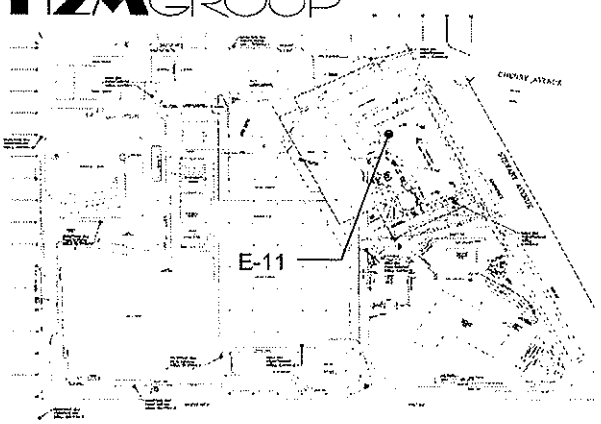
H2MGROUP



Boring # E-10	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/14/05	
COMPLETION TIME:		DATE: 6/14/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-6" Top soil	PID (0'-2'): 0.0
			6"-2'6" Brown SM w/ small cobble	
			2'6"-3' Clay	PID (2'-4'): 0.0
4-8	4'	2'	4'-4'6" Tan SW w/ cobble	PID (4'-6'): 0.0
			4'6"-5' Brown SM	
			5'-6' Tan, sandy SW w/ cobble	PID (6'-8'): 0.0
8-10	2'	0	Refusal @ 8 ft	PID (8'-10') : 0.0

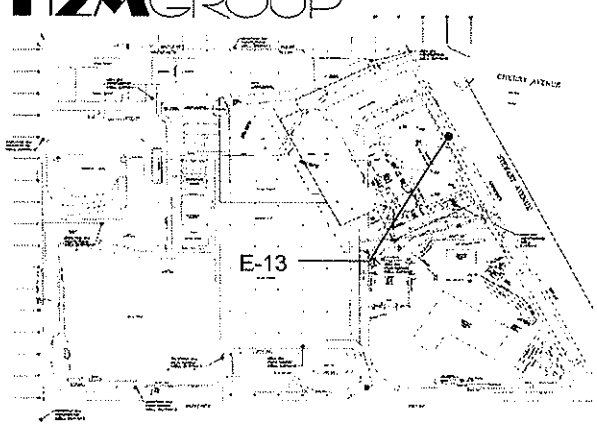
H2MGROUP



Boring # E-11	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/14/05		
COMPLETION TIME:	DATE: 6/14/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-5	5'	3'	0'-1' Wet, gray SW w/ cobble	PID (0'-2'): 0.0
			1'-1'6" Tan SW w/ cobble, sandy	
			1'6"-2' Brown SM, silty	PID (2'-4'): 1415
			2'-3' Gray SW w/ cobble, crushed rock	PID (4'-6'): 473
5-10	5'	5'	5'-6'6" Brown SW	
			6'6"-8' Tan, sandy SW	PID (6'-8'): 317
			8'-10' Tan SW w/ cobble, rock	PID (8'-10') : 986

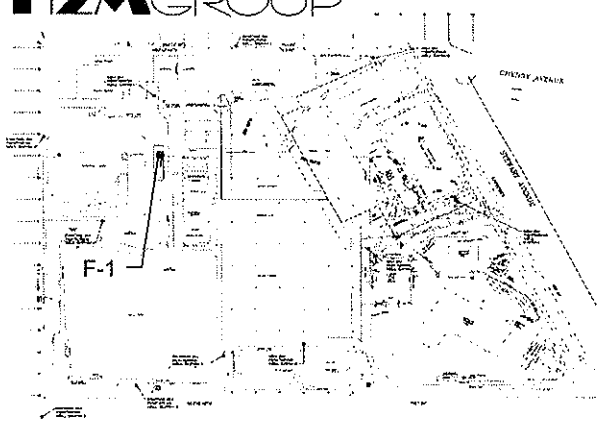
H2MGROUP



Boring # E-13	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/10/05		
COMPLETION TIME:	DATE: 6/10/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	6" Topsoil SW	PID (0'-2'): 0.0
			2'6" Light brown SW	
				PID (2'-4'): 0.0
4-8	4'	4'	4' Light brown SW, some cobble	PID (4'-6'): 0.0
				PID (6'-8'): 0.0
8-10	2'	2'	2' Light brown SW. some cobble	PID (8'-10') : 0.0

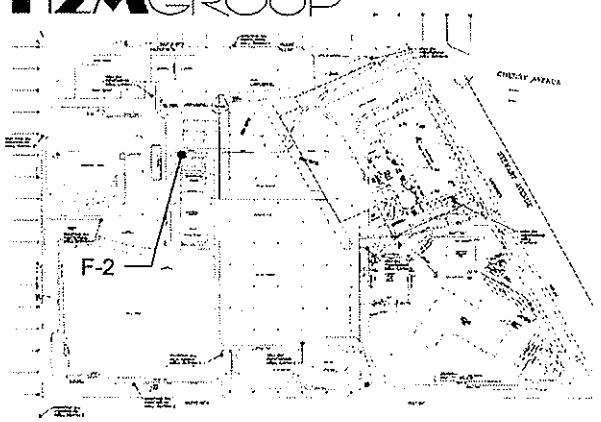
H2MGROUP



Boring # F-1	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DROP:	
COMPLETION TIME:		DATE: 6/22/05	
BACKFILL TIME:		DATE: 6/22/05	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'	0'-1' Top soil	PID (0'-2'): 0.0	
			1'-3' Tan/brown S, w/ cobble	PID (2'-4'): 0.0	
4-8	4'	4'	4'-8' Tan, sandy SW w/ cobble	PID (4'-6'): 0.0	
				PID (6'-8'): 0.0	
8-10	2'	2'	8'-10' Tan, brown sandy SW w/ cobble	PID (8'-10'): 0.0	
18-20	2'	1'8"	Coarse/gravelly sand	PID (18'-20'): 852	
28-30	2'	1'1"	Coarse/gravelly sand	PID (28'-30'): 161	
38-40	2'	4"	Medium/coarse sand	PID (38'-40'): 57.2	
48-50	2'	2'	8" Coarse, 14" medium sand/silt	PID (48'-50'): 230	
58-60	2'	2'	Coarse/gravelly sand	PID (58'-60'): 129	

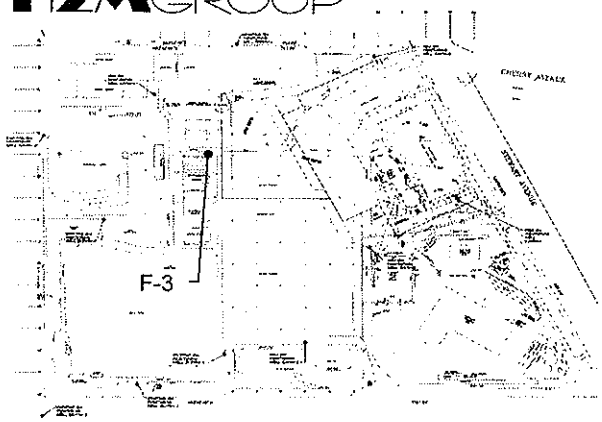
H2MGROUP



Boring # F-2	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/23/05	
COMPLETION TIME:		DATE: 6/23/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-6" Top soil	PID (0'-2'): 0.0
			6"-2' Brown SM	
			2'-2'6" Clay	PID (2'-4'): 0.0
4-8	4'	3'6"	4'-5' Brown SM	PID (4'-6'): 0.0
			5'-7'6" Tan, sandy SW	PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan, sandy SW w/cobble	PID (8'-10'): 0.0

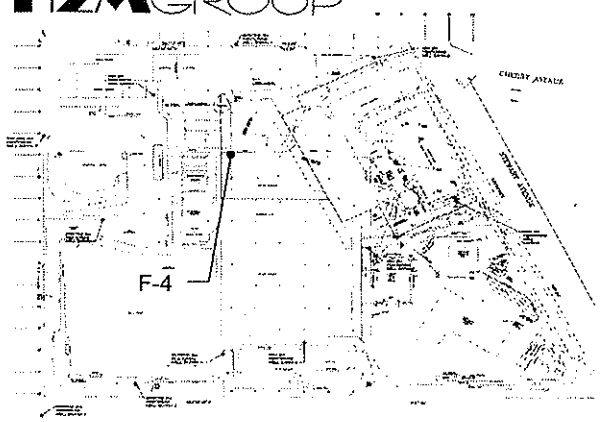
H2MGROUP



Boring # F-3	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/23/05	
COMPLETION TIME:		DATE: 6/23/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	20"	Grass, top soil, medium sand	PID (0'-2'): 23.4	
2-4	2'	16"	Top soil, medium sand	PID (2'-4'): 65.0	
4-6	2'	17"	Medium sand, top soil, some clays	PID (4'-6'): 211.0 * BD	
6-8	2'	14"	Medium sand, some cobble, stones	PID (6'-8'): 238.0	
8-10	2'	16"	Mostly coarse gravel, some stone	PID (8'-10'): 573.0	
18-20	2'	18"	Mostly coarse gravel	PID (18'-20'): 132.0	
28-30	2'	18"	Mostly coarse gravel	PID (28'-30'): 211.0	
38-40	2'	16"	Mostly coarse gravel	PID (38'-40'): 141.0	
48-50	2'	18"	Mostly medium sands, some clay	PID (48'-50'): 42.0	
58-60	2'	20"	Mostly medium sands	PID (58'-60'): 11.0	

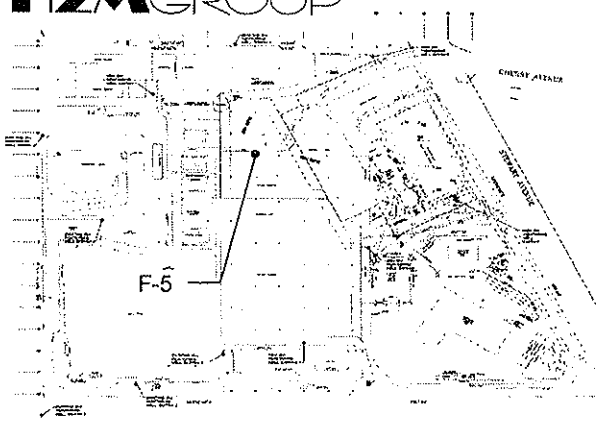
H2MGROUP



Boring # F-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/10/05		
COMPLETION TIME:	DATE: 6/10/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'	6" Light gray fill	PID (0'-2'): 0.0	
			3" Yellow sandy SW		
			9" Brown silty sands SM	PID (2'-4'): 0.0	
			12" Yellow tan SW	* MS/MSD on F4 2'-4'	
4-8	4'	4'	3'6" Yellowish/Tan SW	PID (4'-6'): 0.0	
			6" Gray/Brown SW	PID (6'-8'): 0.0	
8-10	2'	2'	Yellow/tan medium grained sands SW	PID (8'-10'0: 0.0	
				* BD on F4 8'-10'	

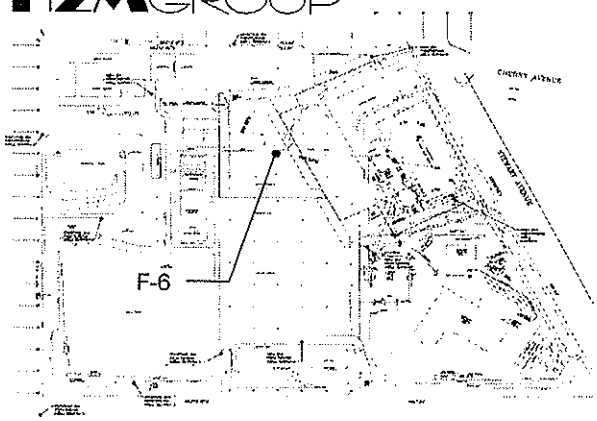
H2MGROUP



Boring # F-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:	total depth	60'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/7/05		
COMPLETION TIME:	DATE: 6/7/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	18"	12" Yellowish tan SW	PID (0'-2'): >2000 * BD	
			6" Gray SW		
2-4	2'	2'	2' Yellowish Tan SW	PID (2'-4'): > 2000 * MS/MSD	
4-6	2'	20"	7" Brown Silts	PID (4'-6'): 1128	
			8" gravelly sand		
			5" medium sand		
6-8	2'	2'	16" medium sands	PID (6'-8'): 264	
			6" coarse gravel, some rock		
8-10	2'	16"	16" Yellowish Tan medium grained sand, SW	PID (8'-10'): 412	
18-20	2'	23"	23" mostly coarse to gravelly sands	PID (18'-20'): ND	
28-30	2'	23"	23" mostly coarse to gravelly sands	PID (28'-30'): ND	
38-40	2'	21"	7" mostly coarse	PID (38'-40'): ND	
			14" white medium grained sand		
48-50	2'	18"	2" medium sand, gravel,	PID (48'-50'): ND	
			16" white medium sand		
58-60	2'	21"	3" coarse gravel	PID (58'-60'): ND	
			18" white medium sand		

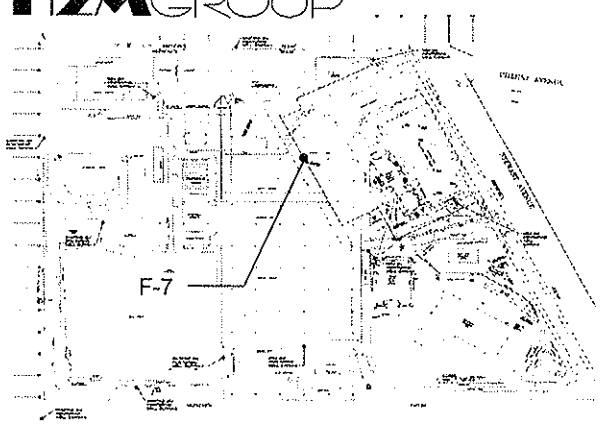
H2MGROUP



Boring # F-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/10/05	
COMPLETION TIME:		DATE: 6/10/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	4'	0'-2" Asphalt	PID (0'-4') 0.0	
			2"-4' Yellow/ tan SW		
4-8	4'	4'	4'-8' Tan/yellow SW	PID (4'-8') 0.0	
8-10	2'	2'	8'-10' Light tan SW	PID (8'-10') 0.0	

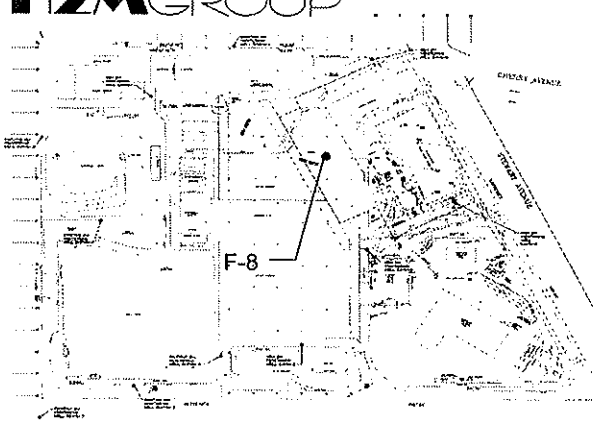
H2MGROUP



Boring # F-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/15/05	
COMPLETION TIME:		DATE: 6/15/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	1'	Medium coarse grained, some gravel	PID (0'-2'): 56.0
2-4	2'	15"	Coarse, gravelly w/ some stone	PID (2'-4'): 131.0
4-6	2'	15"	Mostly coarse, gravelly	PID (4'-6'): ND
6-8	2'	20"	Mostly coarse, gravelly w/ some stone	PID (6'-8'): ND
8-10	2'	15"	Mostly coarse to gravelly w/ some stone	PID (8'-10'): 23.0
18-20	2'	15"	Mostly coarse to gravelly w/ some stone	PID (18'-20'): 7.2
28-30	2'	22"	Medium coarse, gravelly sands	PID (28'-30'): 8.8
38-40	2'	2'	9" coarse-gravelly	PID (38'-40'): 8.1
			15 " medium sand	
48-50	2'	2'	4" crushed rock, gravel	PID (48'-50'): 9.1
			20" medium sand	
58-60	2'	2'	Mostly wet, medium grained sand w/ some gravel	PID (58'-60'): 7.1

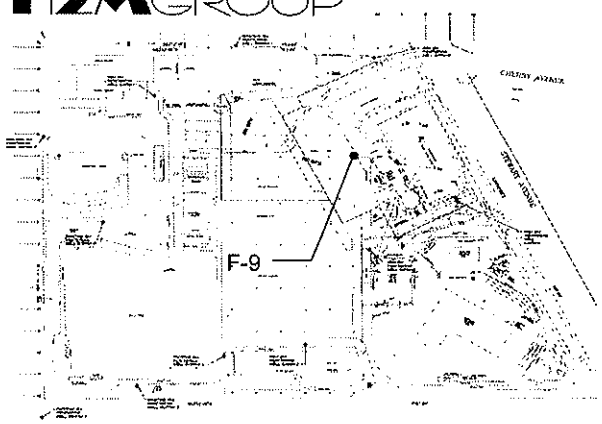
H2MGROUP



Boring # F-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/14/05	
COMPLETION TIME:		DATE: 6/14/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4	3'	0'-2" Gray SM	PID (0'-2'): 0.0
			2"-1' Copper SW w/ cobble	
			1'-3' Tan SW, sandy w/ cobble	PID (2'-4'): 0.0
4-8	4'	4'	4'-8' Tan/copper SW w/ large amount of cobble/crushed rock	PID (4-8')0.0
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble, crushed rock	PID (8'-10'): 0.0

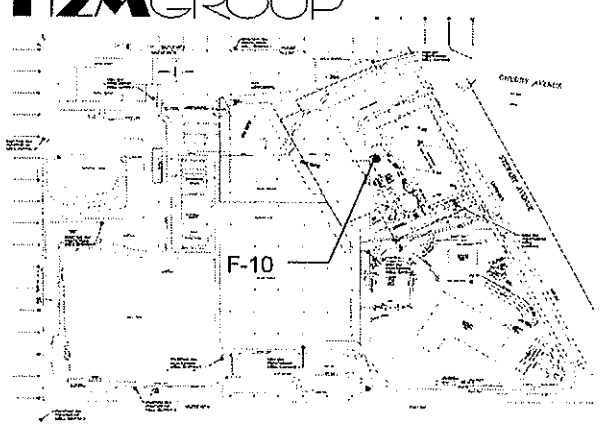
H2MGROUP



Boring # F-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/14/05	
COMPLETION TIME:		DATE: 6/14/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	20"	Asphalt, medium sands, crushed stone	PID (0'-2'): ND	
2-4	2'	24"	Asphalt, coarse-gravelly sands, stone	PID (2'-4'): ND	
4-6	2'	14"	Coarse sands, gravel, stone	PID (4'-6'): ND * BD	
6-8	2'	11"	Coarse, medium sands, some stone	PID (6'-8'): ND	
8-10	2'	8"	Coarse sands, w/ some stone	PID (8'-10'): ND	
18-20	2'	15"	Mostly coarse sands	PID (18'-20'): ND	
28-30	2'	24"	11" Coarse to gravelly, 10" crushed stone, 3" clay	PID (28'-30'): ND	
38-40	2'	20"	9" Mostly course sands, 11" medium sands	PID (38'-40'): ND	
48-50	2'	16"	16" Some clay, mostly medium sands	PID (48'-50'): ND	
58-60	2'	No Recovery	No recovery	PID (58'-60'): ND	

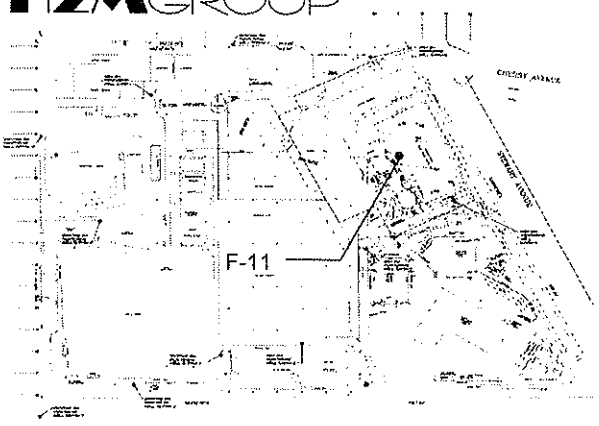
H2MGROUP



Boring # F-10	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/14/05	
COMPLETION TIME:		DATE: 6/14/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'	0'-6" Cobble, asphalt	PID (0'-2'): 0.0	
			6"-1' Brown, SM		
			1'-3' Sandy/tan SW w/cobble	PID (2'-4'): 0.0	
4-8	4'	4'	4'-8' Tan, sandy SW w/ cobble, copper color	PID (4'-6'): 0.0	
				PID (6'-8'): 0.0	
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble, areas of brown SM	PID (8'-10'): 0.0	

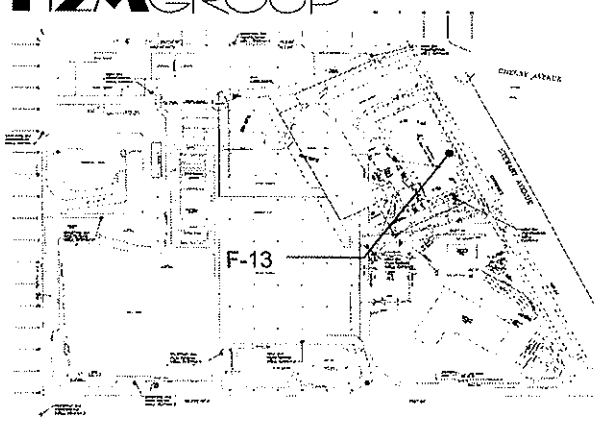
H2MGROUP



Boring # F-11	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/17/05	
COMPLETION TIME:		DATE: 6/17/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	16"	3.5" Concrete	PID (0'-2'): 2.1	
			12" Coarse gravel		
2-4	2'	18"	18" medium/coarse grained gravel	PID (2'-4'): 144	
4-6	2'	24"	24" medium to coarse gravel	PID (4'-6'): 156	
6-8	2'	20"	20" medium sand w/ crushed rock	PID (6'-8'): 238	
8-10	2'	20"	20" medium/coarse gravel	PID (8'-10'): 49.6	
18-20	2'	20"	20" coarse to gravelly sand	PID (18'-20'): 47	
28-30	2'	24"	24" coarse to gravelly sand	PID (28'-30'): 26.6	
38-40	2'	22"	22" coarse to gravelly sand	PID (38'-40'): 63.7	
48-50	2'	24"	15" medium grained, some clay	PID (48'-50'): 54	
			9" coarse gravelly sand		
58-60	2'	20"	20" medium sands w/ little clay	PID (58'-60'): 11.1	

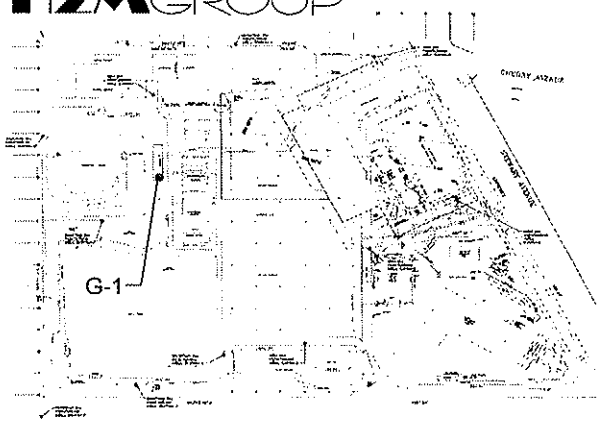
H2MGROUP



Boring # F-13	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/22/05	
COMPLETION TIME:		DATE: 6/22/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	12"	12" coarse to gravelly w/ some stone	PID (0'-2'): 127 * MS/MSD
2-4	2'	18"	18" some medium, mostly coarse grained	PID (2'-4'): 210
4-6	2'	20"	20" sand w/ stone, cobble	PID (4'-6'): 22.3
6-8	2'	18"	18" mostly coarse, gravelly w/ some cobble	PID (6'-8'): 152
8-10	2'	10"	10" coarse w/ some stone	PID (8'-10'): 24 * BD
18-20	2'	10"	10" mostly course, gravelly	PID (18'-20'): 5.8
28-30	2'	16"	16" course to gravelly	PID (28'-30'): 9.5
38-40	2'	21"	9" medium sands	PID (38'-40'): 34
			12" course to gravelly w/ small amt. clay	
48-50	2'	18"	18" mostly medium, some course	PID (48'-50'): 17
58-60	2'	12"	12" medium/course w/ some gravel	PID (58'-60'): ND

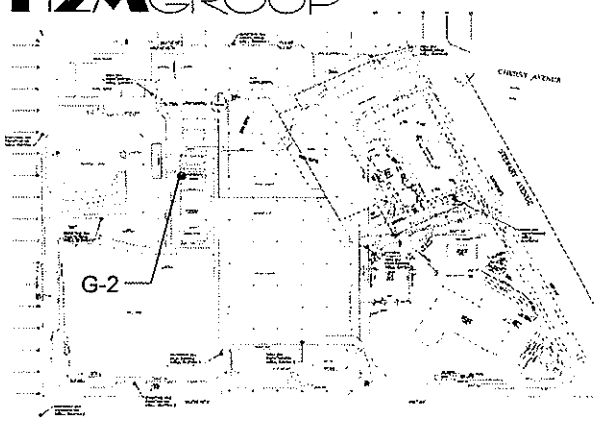
H2MGROUP



Boring # G-1	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	11'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/22/05	
COMPLETION TIME:		DATE: 6/22/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	4'	0'-6" Top soil	PID (0'-2'): 0.0	
			6"-1' Tan SM		
			1'-1'6" Brown SW w/cobble	PID (2'-4'): 0.0	
			1'6"-4' Tan, sandy SW		
4-8	4'	3'	4'-4'6" Tan, sandy SW	PID (4'-6'): 0.0	
			4'6"-5' Gray SP		
			5'-7" Yellowish Tan SW	PID (6'-8'): 0.0	
8-11	3'	3'	8'-11' Yellowish Tan SW some pebbles & gray color	PID (8'-11'): 0.0	

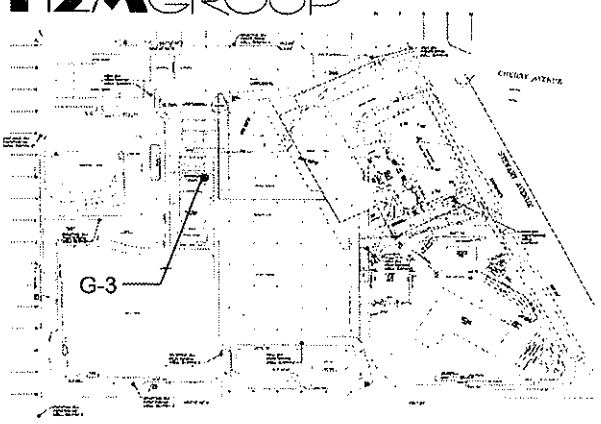
H2MGROUP



Boring # G-2	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:		PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/22/05	
COMPLETION TIME:		DATE: 6/22/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-1' Tan, sandy SW	PID (0'-2') :0.0 * BD
			1'-4' Brown/black SM W/ petroleum smell	PID (2'-4'): 25.0
4-8	4'	3'	4'-5' Gray SM	PID (4'-6'): 0.0
			5'-8' Tan, sandy SW	PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan, sandy SW	PID (8'-10'): 0.0

H2MGROUP

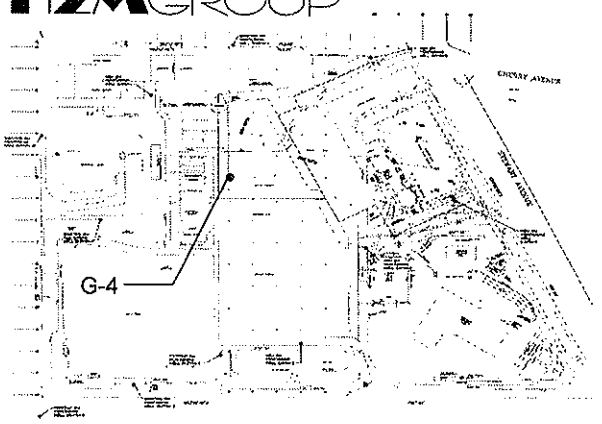


Boring # G-3	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:	total depth	60'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/23/05		
COMPLETION TIME:	DATE: 6/23/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	8"	Asphalt, coarse sand, SW	PID (0'-2'): 7.1
2-4	2'	8"	Sandy SW	PID (2'-4'): 10.1
4-6	2'	6"	Medium sands, crushed rock	PID (4'-6'): 0.0
6-8	2'	21"	Coarse, gravelly sands, w/ dark stains and oily odor	PID (6'-8'): 36.7
8-10	2'	20"	Medium sands w/oil odor	PID (8'-10'): 53.0
18-20	2'	17"	6" Black coarse, remainder medium grained	PID (18'-20'): 20.7
28-30	2'	15"	Medium to coarse grained sand	PID (28'-30'): 38.0
38-40	2'	20"	Coarse to gravelly sands	PID (38'-40'): 38.0
48-50	2'	18"	Mostly medium grained sands	PID (48'-50'): 20.8
58-60	2'	18"	Medium sands and clay	PID (58'-60'): 12.7

Casing depth:
Screen depth:

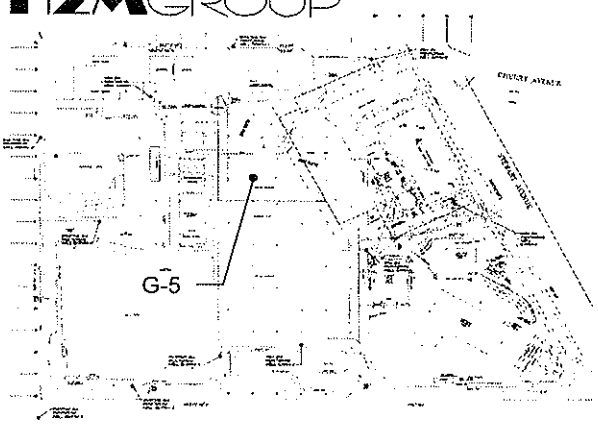
H2MGROUP



Boring # G-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:		PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	14'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/17/05	
COMPLETION TIME:		DATE: 6/17/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'	0'-6" Broken concrete	PID (0'-2') : >2000
			6"-1' Tan MGS SW	
			1'-2' Black, silty (charcoal?)	PID (2'-4') : >2000
4-8	4'	2'	4'-4'3" Brown soil SW	PID (4'-6'): > 2000
			4'3"-4'6" Tan/concrete	
			4'6"-5' Brown, wood fragments	PID (6'-8'): > 2000
			5'-5'10" Black silt, petroleum odor	
			5'10"-6' Brown soil. SM	
8-10	2'	1'	8'-9' Black, mixture of sand, silt and wood w/ stone , petroleum odor and gray/green silt	PID (8'-10'): > 2000 wood @10'
10-14	4'	2'	10'-12' Black, mixture including mgs, silt, green silt, wood	PID (10'-14'): 159.0

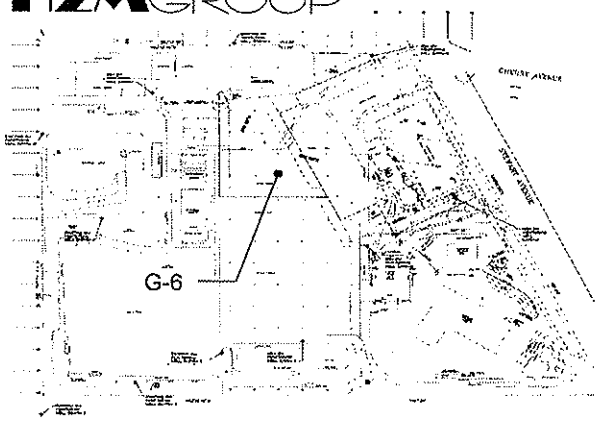
H2MGROUP



Boring # G-5		Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/21/05	
COMPLETION TIME:		DATE: 6/21/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-3' Tan, sandy SW w/cobble, crushed rock	PID (0'-4'): 0.0
4-8	4'	3'	4'-6' Brown, sandy SW w/cobble	PID (4'-8'): 0.0
			6'-7' Brown SP, moist	
8-10	2'	1'6"	8'-9'6" Brown SW w/ cobble	PID (8'-10'): 0.0

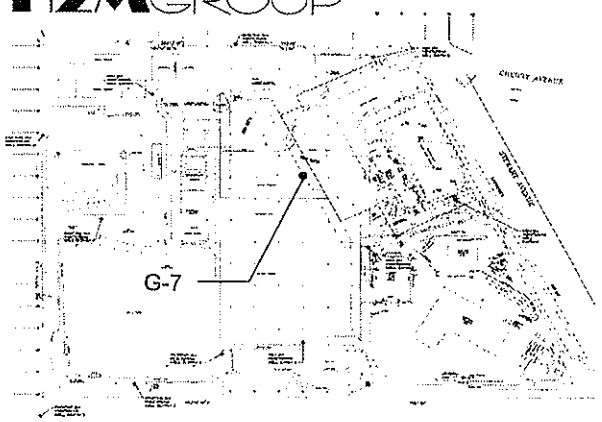
H2MGROUP



Boring # G-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/21/05	
COMPLETION TIME:		DATE: 6/21/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-2' Tan, sandy SW W/cobble	PID (0'-2'): 0.0 * BD
			2'-2'6" Brown, wet w/ sheen, SM	PID (2'-4'): 0.0
4-8	4'	1'	4'-4'3" Sand, Wood, cobble	PID (4'-6'): 0.0
			4'3"-5' Gray/black sludge w/ sheen, petroleum odor	PID (6'-8'): 0.0
8-10	2'	1'6"	8'-8'6" Black Sludge w/ sheen	PID (8'-10'): 0.0
			8'6"-9' mix of gray/brown SM	
			9'-9'6" Tan, sandy SW w/cobble	

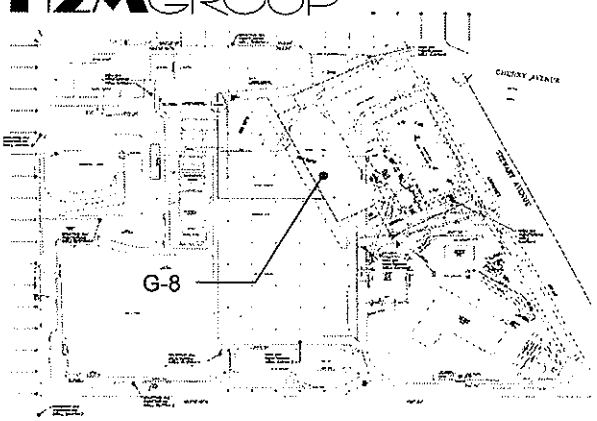
H2MGROUP



Boring # G-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/15/05	
COMPLETION TIME:		DATE: 6/15/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'	0'-6" Wet asphalt/concrete	PID (0'-2'): 0.0	
			6"-1'6" Tan, sandy SW		
			1'6"-2' Brown SM, clay like w/ rotten wood	PID (2'-4'): 0.0	
4-8	4'	1'	4'-4'6" Tan SW	PID (4'-6'): 0.0	
			4'6"-5' Black SM w/ sheen, white fibrous material	PID (6'-8'): 0.0	
8-10	2'	1'	8'-9' Black, oily SW w/ sheen, petroleum odor	PID (8'-10'): 0.0	
				* G-7 8'-10' was sampled twice for additional laboratory analysis	

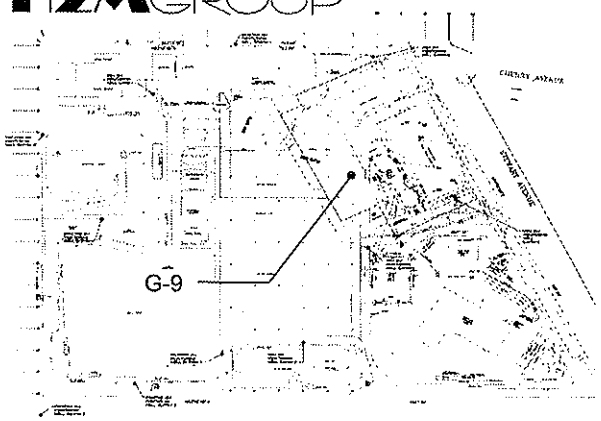
H2MGROUP



Boring # G-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	22'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/16/05	
COMPLETION TIME:		DATE: 6/16/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'	0-1'6" Tan, sandy SW w/ cobble	PID (0'-2'): 0.0	
			1'6"-2' Black seen, moist SW	PID (2'-4'): 0.0	
4-8	4'	1'6"	4'-5'6" Black, moist w/ sheen, petroleum odor	PID (4'-8'): 0.0	
8-12	4'	6"	8'-8'6" Black sludge w/ fiberglass	PID (8'-10'): 0.0	
18-22	4'	4'	18'-19' Gray SW, petroleum odor	PID (18'-20'): 0.0	
			19'-21' Black, moist, oily SM, sludge-like		
			21'-22' Tan SW		

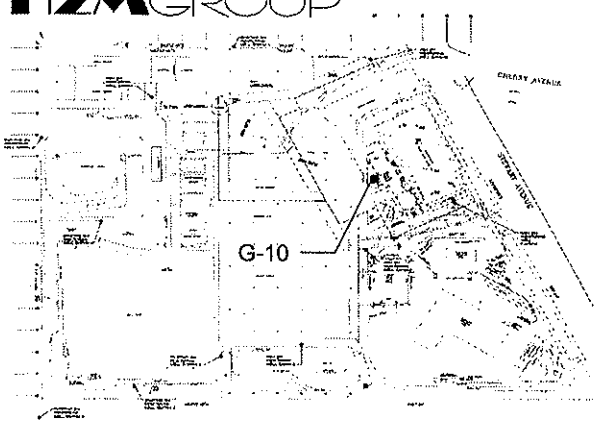
H2MGROUP



Boring # G-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/16/05		
COMPLETION TIME:	DATE: 6/16/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'	0'-3" Asphalt/concrete	PID (0'-2'): 0.0 * BD	
			3"-1'6" Tan SW w/ cobble	PID (2'-4'): 0.0	
			1'6"-3' Tan SW w/ cobble & crushed rock		
4-8	4'	4'	4'-8' Tan SW, sandy w/ large amounts of cobble & crushed rock	PID (4'-8'): 0.0	
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble, rock	PID (8'-10'): 0.0	

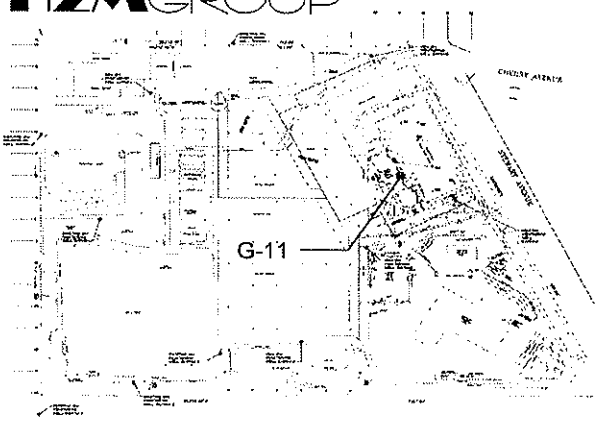
H2MGROUP



Boring # G-10	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/16/05	
COMPLETION TIME:		DATE: 6/16/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-1' Top soil, brown S, w/ cobble, grass	PID (0'-2'): 0.0
			1'-3' Sandy, Tan SW w/ cobble	PID (2'-4'): 0.0
4-8	4'	2'	4'-5' Tan, sandy SP w/ cobble, crushed rock	PID (4'-6'): 0.0
			5'-6' Tan, sandy SW	PID (6'-8'): 0.0
8-10	2'	6"	8'-8'6" Tan, sandy SW	PID (8'-10'): 0.0

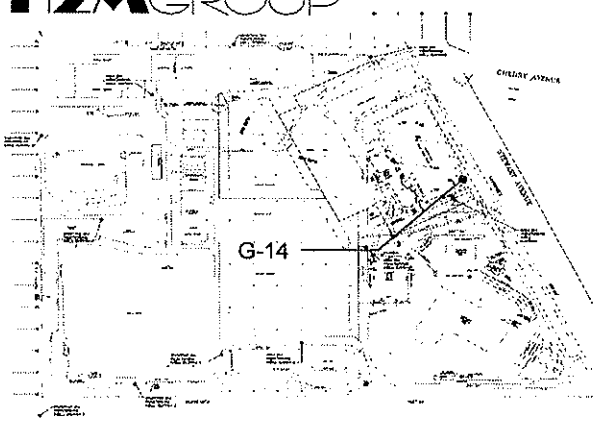
H2MGROUP



Boring # G-11	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/23/05		
COMPLETION TIME:	DATE: 6/23/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-5	5'	2'	0'-2' Tan., SW	PID (0'-2'): 400	
5-10	5'	2'	5'-7' Tan, mgs, SW brown spots	PID (2'-4'): 496	
				PID (4'-6'): 800	
				PID (6'-8'): 480	
				PID (8'-10'): 520	

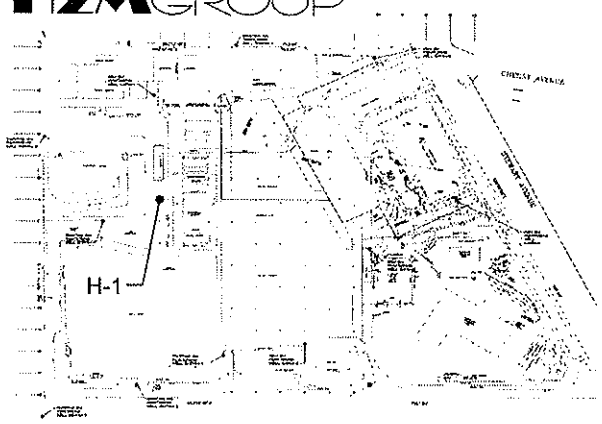
H2MGROUP



Boring # G-14	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/20/05	
COMPLETION TIME:		DATE: 6/20/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'	0'-2' Tan, sandy SW w/ cobble	PID (0'-4'): 0.0
4'-8'	4'	4'	4'-8' Sandy SW w/ cobble. Tan color	PID (4'-8'): 0.0
8-10	2'	2'	8'-9' Brown SW w/ cobble	PID (8'-10'): 0.0 * BD
			9'-10' Tan, sandy SW w/ cobble	

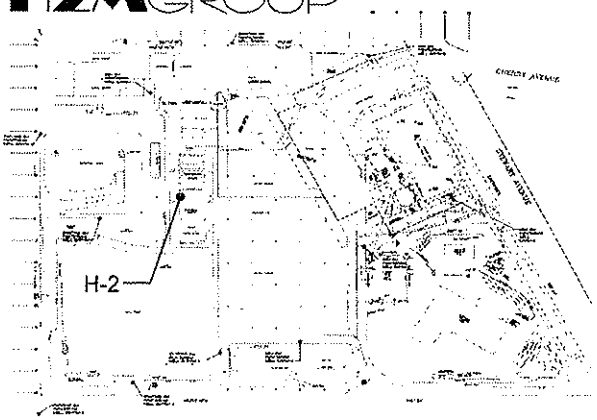
H2MGROUP



Boring # H-1	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/16/05	
COMPLETION TIME:		DATE: 6/16/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	22"	Top soil, medium sands, rock	PID (0'-2'): 1240	
2-4	2'	12"	Tan, sandy mgs, SW	PID (2'-4'): 330	
4-6	2'	16"	Tan to light brown SW	PID (4'-6'): 116	
6-8	2'	16"	Tan SW, some cobble	PID (6'-8'): 24	
8-10	2'	12"	Light tan SW	PID (8'-10'): 7.0	
18-20	2'	15"	Tan, mgs, SW, w/ cobble	PID (18'-20'): 0.0	
28-30	2'	19"	Medium grained gravelly sands	PID (28'-30'): 209 * BD: 28'-30'	
38-40	2'	20"	8" MGS, Tan, SP	PID (38-40): 0.0	
			2" Crushed stone		
			10" Tan, sandy SP		
48-50	2'	20"	Coarse, medium sands	PID (48'-50'): 0.0	
58-60	2'	24"	11.5" Medium sands	PID (58'-60'): 0.0	
			12.5" Clay		

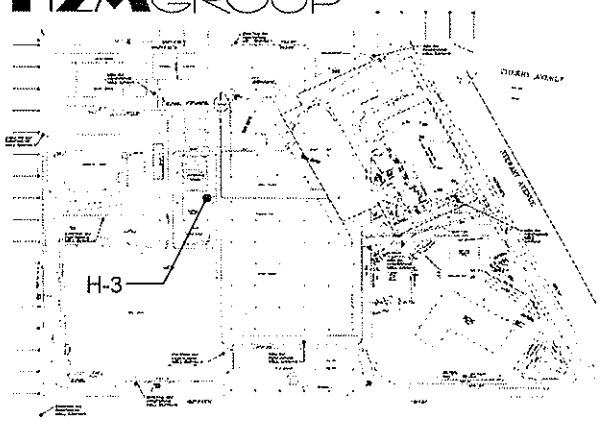
H2MGROUP



Boring # H-2	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/22/05	
COMPLETION TIME:		DATE: 6/22/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	0'-1'6" Brown SM w/ cobble	PID (0'-2') 0.0
			1'6"-3'6" Tan, sandy SW	PID (2'-4') 0.0
4-8	4'	4'	4'-8' Tan, sandy SW w/cobble, areas of copper color	PID (4'-8'): 0.0
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble	PID (8'-10'): 0.0

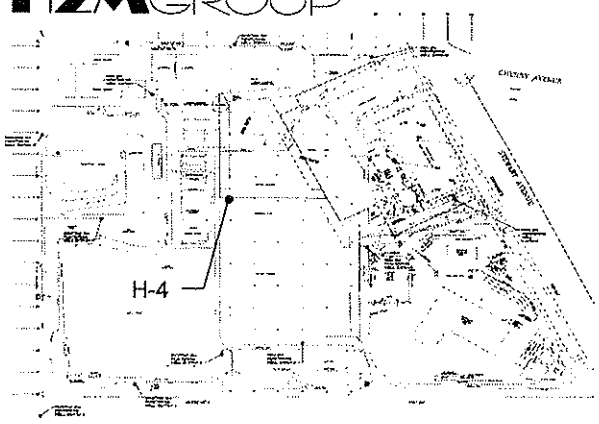
H2MGROUP



Boring # H-3	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:		PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE:	
COMPLETION TIME:		DATE:	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	24"	Top soil, coarse to gravelly	PID (0'-2'): 1723
2-4	2'	20"	Coarse to gravelly	PID (2'-4'): 1439
4-6	2'	20"	Coarse to gravelly	PID (4'-6'): > 2000
6-8	2'	10"	Coarse to gravelly	PID (6'-8'): > 2000
8-10	2'	20"	Coarse to gravelly	PID (8'-10'): >2000
18-20	2'	16"	Coarse to gravelly	PID (18'-20'): >2000
28-30	2'	20"	Coarse to gravelly	PID (28'-30'): >2000
38-40	2'	20"	Coarse to gravelly	PID (38'-40'): 211
48-50	2'	24"	Coarse to gravelly	PID (48'-50'): 98
58-60	2'	20"	med to gravelly	PID (58'-60'): 30.0

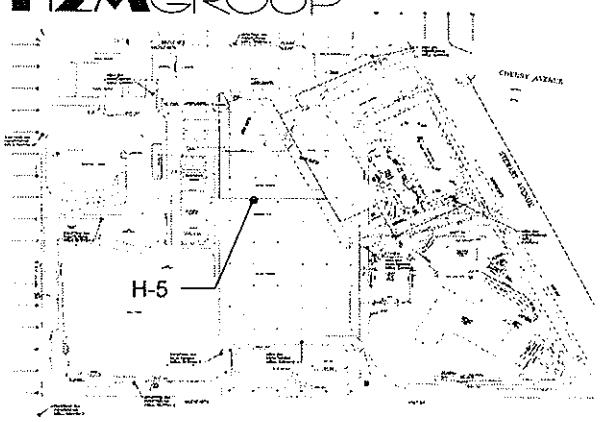
H2MGROUP



Boring # H-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/20/05	
COMPLETION TIME:		DATE: 6/20/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'	0'-6" Wet, gray SW w/ cobble	PID (0'-2'): 0.0	
			6"-1' Tan, sandy SW	PID (2'-4'): 0.0	
			1'-2' Tan, sandy SW	PID (4'-6'): 0.0	
4-8	4'	3'	4'-7' Tan, sandy SW w/ cobble, rocks	PID (6'-8'): 0.0	
8-10	2'	2'	8'-8'9" Tan, sandy SW	PID (8'-10'): 0.0	
			8'9"-9' Gray SW w/cobble		
			9'-10' Tan, sandy SW w/ cobble		

H2MGROUP

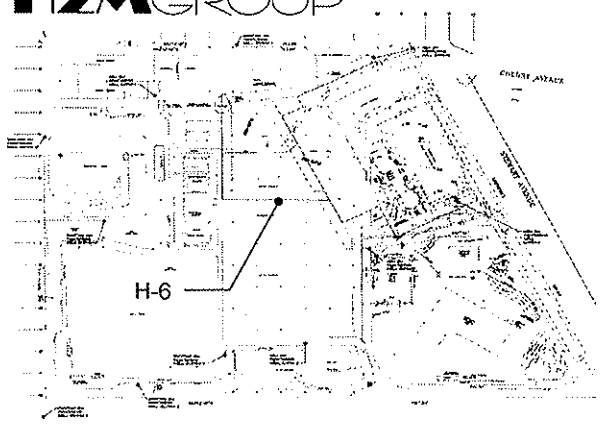


Boring # H-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:	total depth	60'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/6/05		
COMPLETION TIME:	DATE: 6/6/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	4"	Concrete, subbase	PID (0'-2'): 244
2-4	2'	18"	Crushed concrete,medium to coarse sand	PID (2'-4'): 342 * Expanded list
4-6	2'	20"	6" Clay, 14" coarse gravelly sand	PID (4'-6'): 206
6-8	2'	24"	Medium silty sands, crushed stone, coarse gravels	PID (6'-8'): ND
8-10	2'	16"	Mostly medium to coarse sands	PID (8'-10'): 170
18-20	2'	18"	6" Clay, 12" medium-coarse sands	PID (18'-20'): ND
28-30	2'	6"	3" Clay, 3" coarse gravelly sands	PID (28'-30'): ND
38-40	2'	11"	10" coarse to gravelly sands, 1' clay	PID (38-40): 203
48-50	2'	21"	Some clay, silty sands, coarse to gravelly	PID (48'-50'): 90
58-60	2'	24"	5" Clay, 19" white medium sands	PID (58'-60'): ND

Casing depth:
Screen depth:

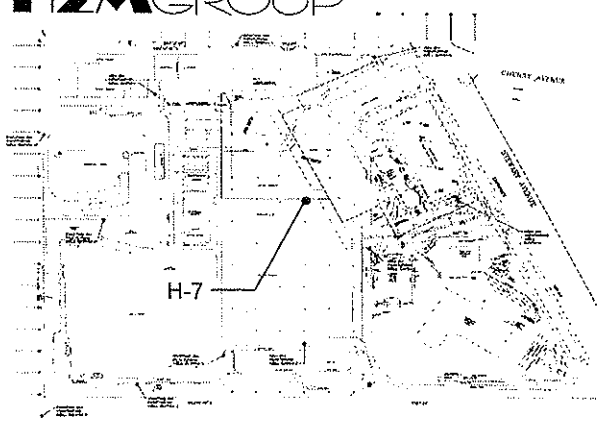
H2MGROUP



Boring # H-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/20/05	
COMPLETION TIME:		DATE: 6/21/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	0		* Refusal due to concrete coring machine breakdown, retried on 6/21/05
0-4	4'	4'	0'-6" Tan, sandy SW	PID (0'-2'): 0.0
			6"-2' Brown SP w/ small amount of fine particles	PID (2'-4'): 0.0
			2'-4' Tan, sandy SW w/ cobble	
4-8	4'	4'	4'-5' Tan SW w/ cobble	PID (4'-6'): 0.0
			5'-6' Tan SP	PID (6'-8'): 0.0
			6'-8' Tan SW w/ cobble	
8-10	2'	2'	8'-10' Tan SP	PID (8'-10'): 0.0

H2MGROUP

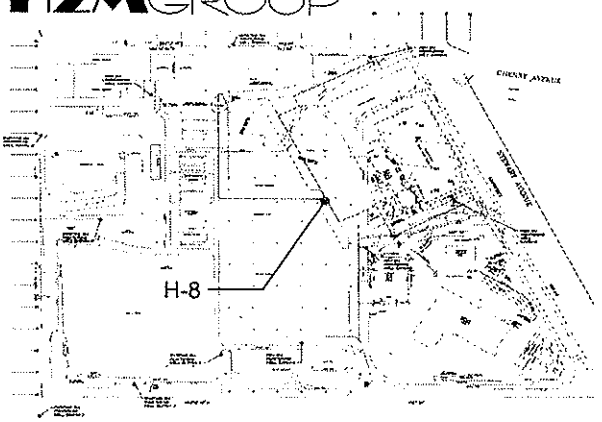


Boring # H-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/21/05	
COMPLETION TIME:		DATE: 6/21/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	21"	Some medium sands, mostly coarse w/ cobble	PID (0'-2'): >2000 * MS/MSD
2-4	2'	24"	6" Medium, 18" coarse-gravelly	PID (2'-4'): 864
4-6	2'	24"	Mostly coarse to gravelly	PID (4'-6'): 936
6-8	2'	17"	Mostly coarse to gravelly	PID (6'-8'): 314
8-10	2'	17"	Mostly coarse to gravelly	PID (8'-10'): 247 * BD
18-20	2'	24"	Mostly coarse to gravelly	PID (18'-20'): 20.7
28-30	2'	20"	Mostly coarse to gravelly	PID (28'-30'): 109
38-40	2'	20"	8" Coarse medium sands, 12" clay	PID (38-40): 8.3
48-50	2'	22"	9" Clay, some coarse, 13 " white medium sands	PID (48'-50'): 32
58-60	2'	24"	Mostly medium/ coarse sands, some clay	PID (58'-60'): ND

Casing depth:
Screen depth:

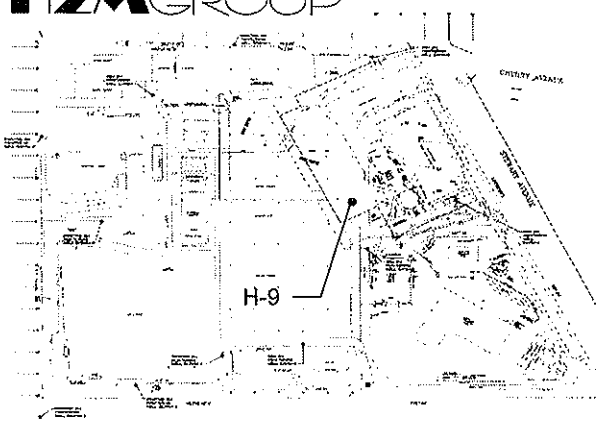
H2MGROUP



Boring # H-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/16/05	
COMPLETION TIME:		DATE: 6/16/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-3' Tan, sandy SW w/ cobble, crushed rock. Some asphalt	PID (0'-4'): 0.0
4-8	4'	4'	4'-6' Tan, SW w/ cobble, crushed rock	PID (4'-8'): 0.0
			6'-8' Tan/ copper SW w/ cobble, crushed rock	
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble, crushed rock	PID (8'-10'): 0.0

H2MGROUP

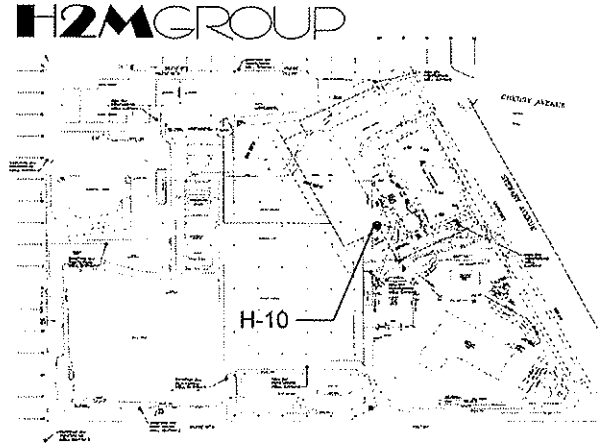


Boring # H-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/3/05	
COMPLETION TIME:		DATE: 6/3/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	20"	Asphalt, sub-base material	PID (0'-2'): 0.0
2-4	2'	24"	Crushed rock, Tan/brown SW w/ cobble	PID (2'-4'): 0.0
4-6	2'	17"	Asphalt, fill soils	PID (4'-6'): 431
6-8	2'	20"	6" Brown medium to coarse, 14" yellow course to gravelly sands	PID (6'-8'): 533
8-10	2'	16"	4" light brown SW, 12" yellowish tan SP	PID (8'-10'): 241
18-20	2'	24"	Light brown coarse-gravelly	PID (18'-20'): 840 * MS/MSD
28-30	2'	24"	Light brown coarse-gravelly	PID (28'-30'): 161
38-40	2'	15"	Mostlt yellow medium sands, some rock	PID (38-40): 106
48-50	2'	23"	6" brown medium to coarse, 17" yellow coarse to gravelly sands	PID (48'-50'): 208
58-60	2'	23"	Light brown coarse-gravelly	PID (58'-60'): 34

Casing depth:
Screen depth:

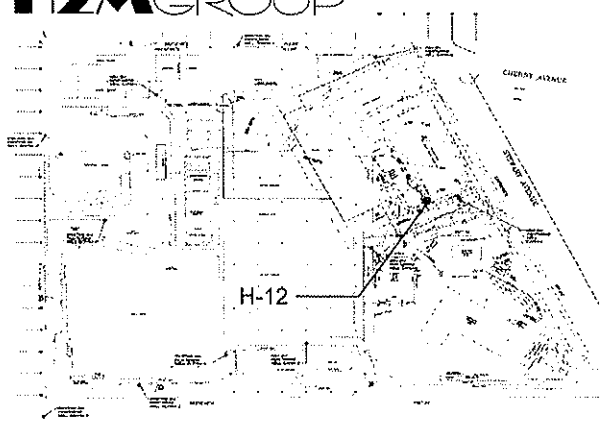
H2MGROUP



Boring # H-10	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/20/05	
COMPLETION TIME:		DATE: 6/20/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	20"	Medium-coarse, some gravel	PID (0'-2'): 207 * BD	
2-4	2'	18"	Medium-coarse	PID (2'-4'): 381	
4-6	2'	12"	Coarse to gravelly, some rock	PID (4'-6'): >2000 * MS/MSD	
6-8	2'	20"	Coarse to gravelly, some rock	PID (6'-8'): 190	
8-10	2'	4"	Medium sands, some rock	PID (8'-10'): 0.0	
18-20	2'	24"	Mostly coarse to gravelly	PID (18'-20'): 502	
28-30	2'	18"	Coarse to gravelly, some rock	PID (28'-30'): -	
38-40	2'	18"	Some coarse sands, mostly medium	PID (38-40): 38.6	
48-50	2'	18"	Mostly medium sands, some clay	PID (48'-50'): 5.0	
58-60	2'	23"	Some coarse sands, mostly medium	PID (58'-60'): 4.9	

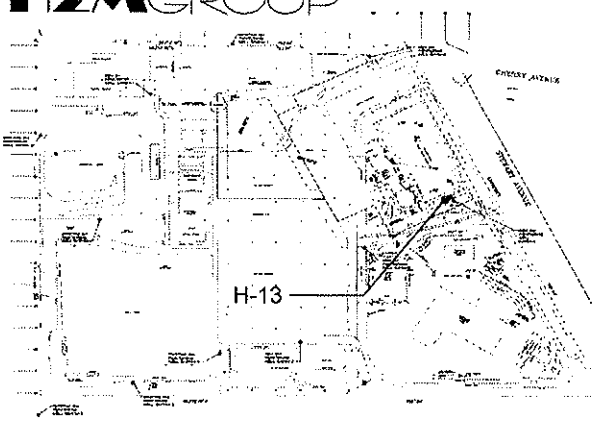
H2MGROUP



Boring # H-12	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/20/05	
COMPLETION TIME:		DATE: 6/20/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'	0'-2' Brown, sandy SW w/ cobble & rock	PID (0'-4') 0.0	
4-8	4'	4'	4'-8' Brown/ tan sandy SW w/ cobble and areas of copper color	PID (4'-8') 0.0	
8'-10'	2'	2'	8'-9' Tan SW w/ cobble	PID (8'-10'): 0.0	
			9'-10' Brown SP , sandy		

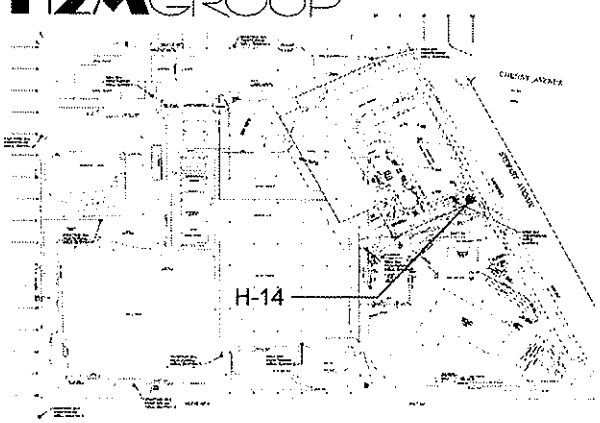
H2MGROUP



Boring # H-13	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/21/05	
COMPLETION TIME:		DATE: 6/21/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	18"	Some asphalt, mostly medium sands	PID (0'-2'): 512
2-4	2'	8"	Medium to coarse, some stone	PID (2'-4'): 41
4-6	2'	14"	Mostly coarse to gravelly	PID (4'-6'): 251
6-8	2'	20"	Mostly coarse to gravelly	PID (6'-8'): 60
8-10	2'	17"	Mostly coarse to gravelly	PID (8'-10'): 48.9
18-20	2'	16"	Mostly coarse to gravelly	PID (18'-20'): 8.6
28-30	2'	No recovery	No recovery	PID (28'-30'): NA
38-40	2'	24"	9" coarse gravelly, 15" medium sands	PID (38-40): 0.0
48-50	2'	24"	Some coarse, mostly medium sands	PID (48'-50'): 29.8
58-60	2'	24"	Medium sands, wet	PID (58'-60'): 529 * Expanded list

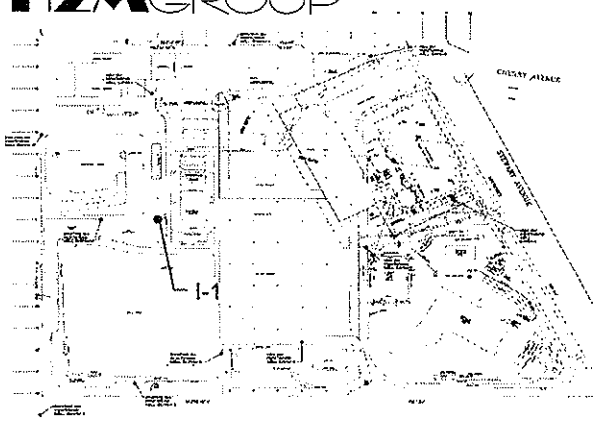
H2MGROUP



Boring # H-14	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/2/05	
COMPLETION TIME:		DATE: 6/2/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	0'-1'6" Grass, brown SW w/ cobble	PID (0'-2'): 0.0
			1'6"-2'6" Dark tan SW	
			2'6"-3'6" Tan SW w/ cobble	PID (2'-4'): 0.0
4-8	4'	4'	4'-4'6" Tan SW	PID (4'-6'): 0.0
			4'6"-5' Brown SW	PID (6'-8'): 0.0
			5'-5'6" Gray SM	
			5'6"-6' Tan SW	
			6'-8' Tan SW w/ cobble	
8-10	2'	2'	8'-8'9" Tan SW w/ cobble	PID (8'-10'): 0.0
			8'9"-9' Dark brown SM	
			6'-10' Tan SW w/ cobble	

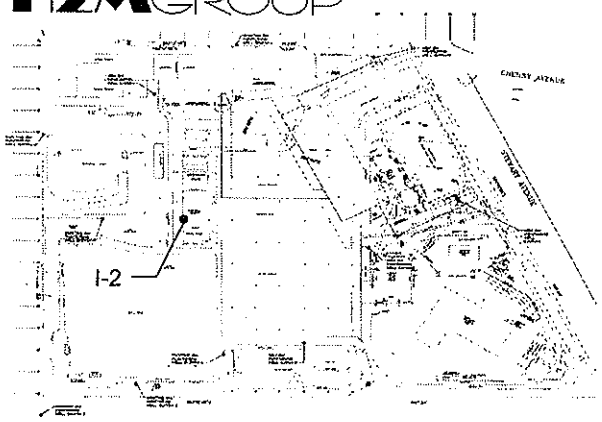
H2MGROUP



Boring # I-1	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	22'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/22/05	
COMPLETION TIME:		DATE: 6/22/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	0'-1' Top soil, grass, roots	PID (0'-2'): > 2000 * BD
			1'-1'2" Brown, compact SW w/ cobble	
			1'2"-2'6" Brown SW w/ cobble	PID (2'-4'): > 2000
			2'6"-3'2" Tan, sandy SW	
			3'2"-3'6" Brown, compact SW	PID (4'-6'): >2000 * MS/MSD
4-8	4'	4'	4'-8' Brown/ black SM, medium/ low plasticity	PID (6'-8'): 1700
8-10	2'	2'	8'-9' Brown SM	PID (8'-10'): 1886
			9'-9'6" Tan SW	
			9'6"-10' Brown SM, petroleum odor	
18-22	4'	4'	18'-20' Impacted SM, black/ gray w/ petroleum odor	PID (18'-20'): 580
			20'-22' Tan, sandy SW	

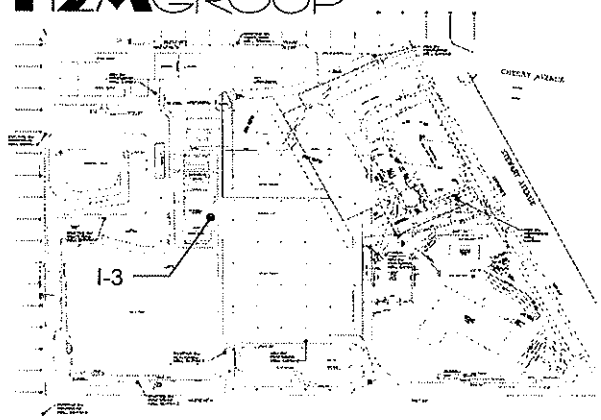
H2MGROUP



Boring # I-2	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/22/05	
COMPLETION TIME:		DATE: 6/22/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'	0'-3' Black, compact SM w/ cobble, petroleum odor	PID (0'-2'): 0.0	
				PID (2'-4'): 37.7	
4-8	4'	3'	5'-5'6" Brown SM w/ cobble, sheen	PID (4'-6'): 35.2	
			5'6"-6' Tan clay w/ low plasticity	PID (6'-8'): 26.2	
			6'-7' Tan SW		
8-10	2'	1'	8'-8'6" Black SM	PID (8'-10'): 0.0	
			8'6"-9' Tan SW		

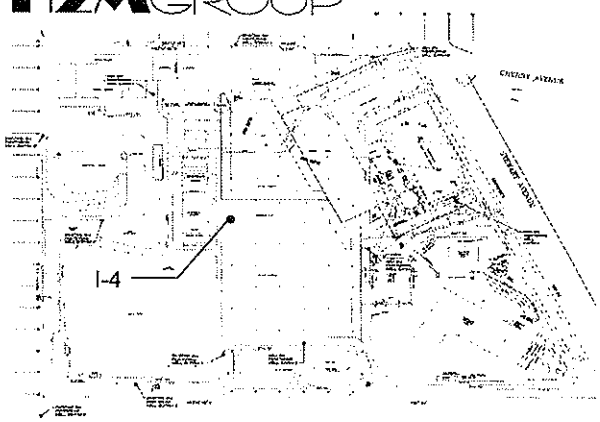
H2MGROUP



Boring # I-3	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE- Soil Gas			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/23/05		
COMPLETION TIME:	DATE: 6/23/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-5	5'	4'	1'6" Top soil	PID (0'-2'): >2000
			2'6" Yellow/ brown SW	PID (2'-4'): >2000
5-10	5'	4'	1'6" Yellow/brown SW	PID (4'-6'): 300
			2'6" Yellow/tan SW	PID (8'-10'): 1200
			I-3 8'-10' BD*	
			I-3 2-4 MS/MSD	
			Soil Gas Start 9:49 > 10:26 (37 min)	

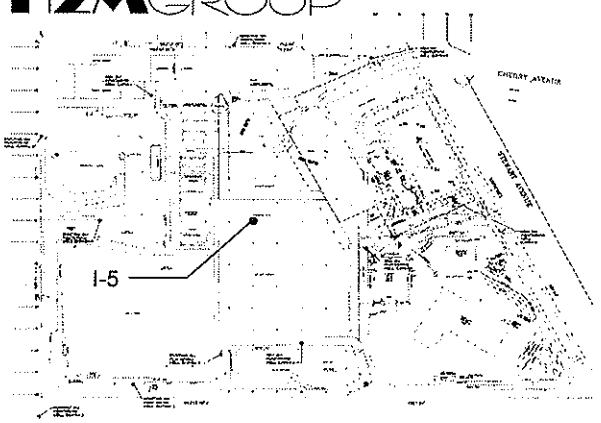
H2MGROUP



Boring # I-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/7/05	
COMPLETION TIME:		DATE: 6/7/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-4" Wet Asphalt/ concrete	PID (0'-2'): 0.0
			4"-2'6" Sandy tan SW w/ cobble	PID (2'-4'): 0.0
4-8	4'	4'	4'-8' Sandy Tan SW w/ areas of copper color, cobble, crushed rock	PID (4'-6'): 0.0
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble	PID (8'-10'): 0.0

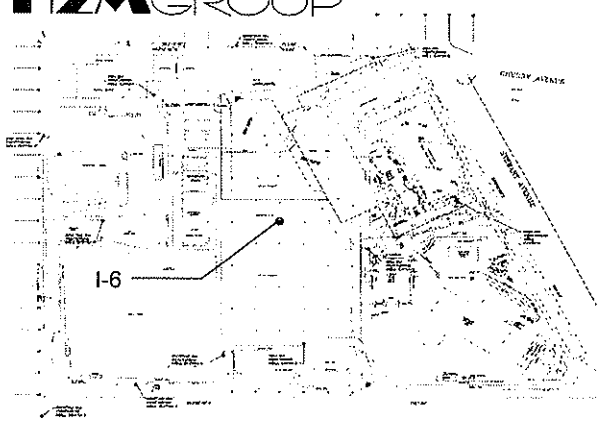
H2MGROUP



Boring # I-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE- Soil Gas			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/23/05	
COMPLETION TIME:		DATE: 6/23/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-5	5'	4'	0'-1' Asphalt, crushed concrete	PID (0'-2'): >2000
			1'-2' Dark Tan SM	PID (2'-4'): >2000
			2'-4' Tan SW, mgs	
5-10	5'	4'6"	5'-9' Tan SW mgs	PID (4'-6'): >2000
			9'-9'6" Brown SW	PID (8'-10'): >2000
			Soil gas can # 6220	
			Soil Gas Start 10:30 > 11:02 (32 min)	
			Pressure (start)-29.5 psi	
			Pressure (stop) -2 psi	

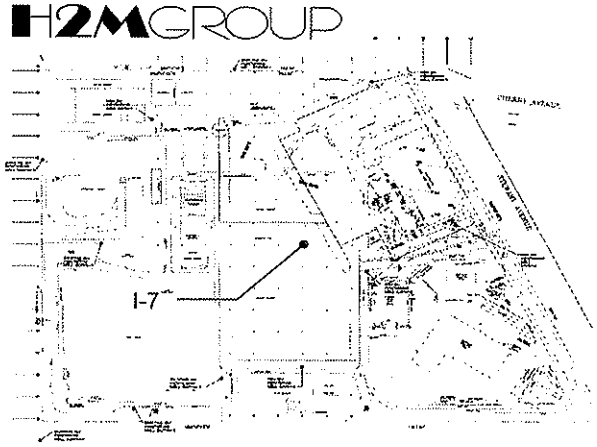
H2MGROUP



Boring # I-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/21/05	
COMPLETION TIME:		DATE: 6/21/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	3'	0'-6"Rocky sand	PID (0'-2'): 0.0	
			6'-2' Compact SM w/ cobble	PID (2'-4'):0.0	
			2'-3' Tan, sandy SW w/ cobble		
4-8	4'	2'6"	4'-4'6" Copper SW	PID (4'-6'): 0.0	
			4'6"-6'6" Tan, Sandy SW w/ cobble	PID (6'-8'): 0.0	
8-10	2'	1'	8'-9' Tan, sandy SW	PID (8'-10'): 0.0	

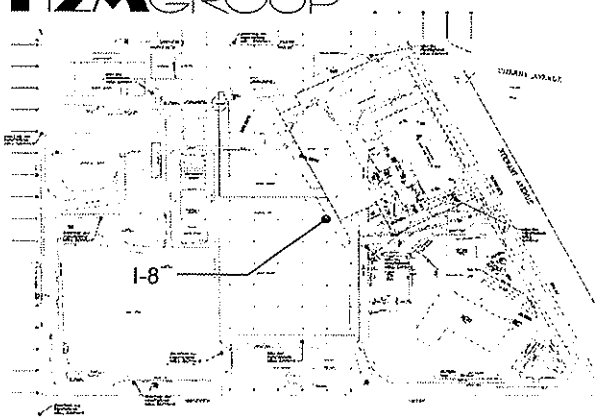
H2MGROUP



Boring # I-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type: 2'		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/1/05	
COMPLETION TIME:		DATE: 6/1/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	1'	0'-1' Tan SW w/ cobble	PID (0'-2'): 0.0
2-4	2'	1'	2'-3' Tan SW w/ rocks	PID (2'-4'): 0.0
4-6	2'	1'	4'-5' Tan SW w/ cobble	PID (4'-6'): 0.0
6-8	2'	1'6"	6'-6'6" Brown SW	PID (6'-8'): 0.0
			6'6"-7'6" Tan SW w. cobble	
8-10	2'	1'	8'-9' Tan SC w/ cobble, rocks	PID (8'-10'): 0.0

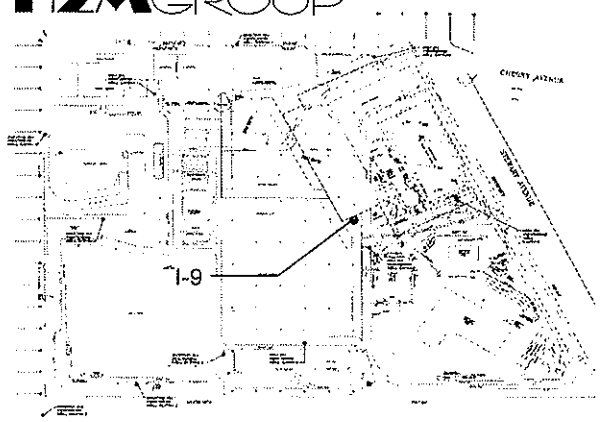
H2MGROUP



Boring # I-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type: 2'		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/26/05	
COMPLETION TIME:		DATE: 5/26/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	6"	0'-6" Tan SW w/ cobble	PID (0'-2'): 0.0
			* rock stuck in spoon	
2-4	2'	6"	2'-2'6" Brown SW w/ cobble	PID (2'-4'): 0.0
4-6	2'	6"	4'-4'6" Black SW, wood, fiberglass debris	PID (4'-6'): 0.0
6-8	2'	6"	6'-6'6" Tan SW, debris, wood	PID (6'-8'): 0.0
8-10	2'	1'	8'-9' Brown SW, cobble, rocks	PID (8'-10'): 0.0
*0-2	2'	1'	0'-6" Tan SW, cobble	
			6"-1' Brown SW, cobble	

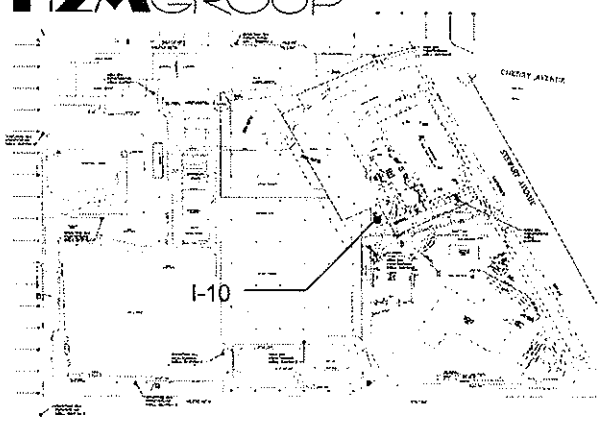
H2MGROUP



Boring # I-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/21/05	
COMPLETION TIME:		DATE: 6/21/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	1'6"	0'-1' Tan, yellowish SW	PID (0'-2'): 0.0
			1'-2' Tan GC	PID (2'-4'):0.0
2-4	2'	1'6"	2'-4' Tan, sandy SW	
				PID (4'-6'): 0.0
4-6	2'	1'6"	4'-6' Tan to light brown SW	PID (6'-8'): 0.0
				PID (8'-10'): 0.0
6-8	2'	1'6"	6'-7' Light brown SW	
			7'-8' Tan SW	
8-10	2'	1'6"	8'-10' Tan SW	

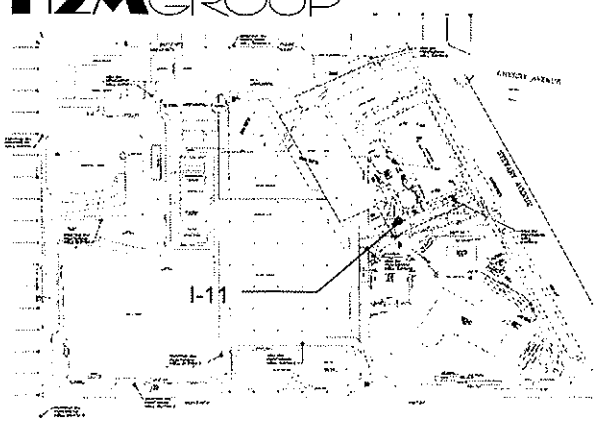
H2MGROUP



Boring # I-10	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/1/05	
COMPLETION TIME:		DATE: 6/1/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	1'6"	0-1'6" Tan SW w/ cobble	PID (0'-2'): 160	
				PID (2'-4'):933	
2-4	2'	1'	2'-3' Tan SW w/ cobble		
				PID (4'-6'): 160	
4-6	2'	1'6"	4'-4'6" Black clay SM	PID (6'-8'): >2000	
			4'6"5'6" Tan SW	PID (8'-10'): 0.0	
6-8	2'	1'	6'-6'6" Black SC		
			6'6"-7' Tan SW		
8-10	2'	1'	8'-8'6" Black SC		
			8'6"-9' Tan SW		

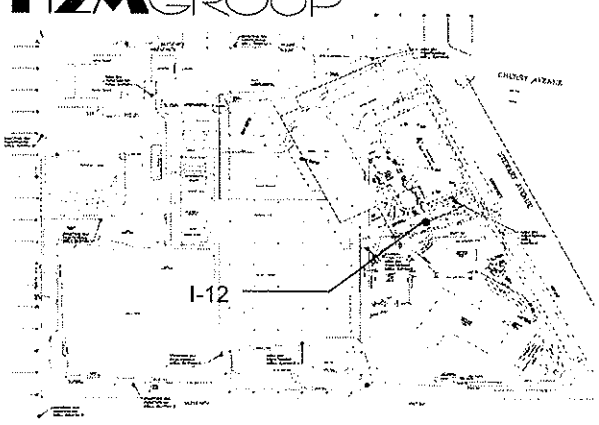
H2MGROUP



Boring # I-11	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD:			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/2/05	
COMPLETION TIME:		DATE: 6/2/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	1'	0'-1' Tan/Brown SW w/ cobble, rocks	PID (0'-2'): 160	
				PID (2'-4'):0.0	
2-4	2'	1'	2'-3' Tan/brown SW w/ cobble, rocks		
				PID (4'-6'): 0.0 * BD	
4-6	2'	1'6"	4'-5' Rocks, Tan SW w/ cobble	PID (6'-8'): 0.0	
			5'-5'6" Brown SW w/ cobble	PID (8'-10'): 0.0	
6-8	2'	2'	6'-7' Brown, Moist SW w/ cobble		
			7'-7'3" Rock		
			7'3"-8' Tan SW		
8-10	2'	1'6"	8'-8'6" Tan SW w/cobble		
			8'6"-9'6" Brown SW w/ cobble		

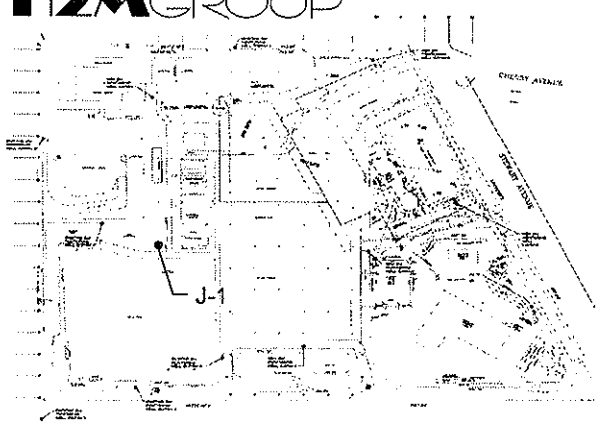
H2MGROUP



Boring # I-12	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type:		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/2/05	
COMPLETION TIME:		DATE: 6/2/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	1'6"	0-1'6" Tan SW w/ cobble	PID (0'-2'): 0.0
				PID (2'-4'):0.0
2-4	2'	1'	2'-2'6" Gray SW w/ cobble	
			2'6"-3' Tan SW w/ cobble, crushed rock	PID (4'-6'): 0.0
4-6	2'	1'	4'-5' Uniform, tan SW w/ cobble	PID (6'-8'): 0.0
				PID (8'-10'): 0.0
6-8	2'	1'	6'-6'4" Brown SW w/ cobble	
			6'4"-7' Tan SW w/cobble	
8-10	2'	6"	8'-8'6" Brown SW w/ cobble	
			* Little recovery due to stuck spoon @ 8'	

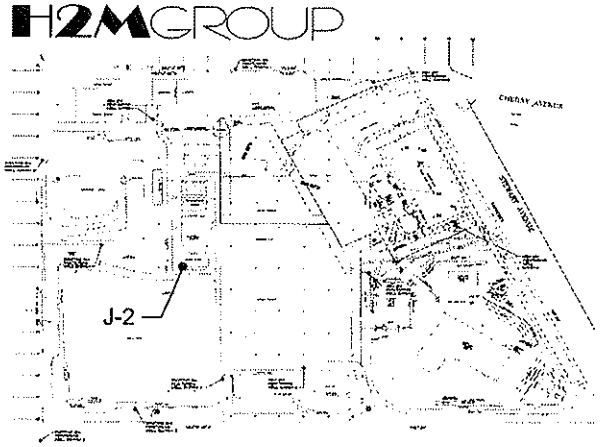
H2MGROUP



Boring # J-1	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/7/05	
COMPLETION TIME:		DATE: 6/7/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	16"	Topsoil, brown medium, stone	PID (0'-2'): 89.7
				PID (2'-4'):
2-4	2'	18"	10" Dark medium sands, rock, 8" medium sand	PID (4'-6'): 84.4
4-6	2	15"	Wood, black stone, medium sand	PID (6'-8'): 65.1
6-8	2'	15"	Dark, staind sands, w/ "old" petro odor	PID (8'-10'): 56
8-10	2'	6"	Brown medium sands	PID(18'-20'): 7.1
18-20	2'	4"	Black medium sand w/ odor	PID (28'-30'): 4.7
28-30	2'	15"	Mostly course-gravelly sands	PID (38'-40'): ND
38-40	2'	15"	Some gravelly sand, mostly coarse	PID (48'-50'): 112 *EXPANDED LIST
48-50	2'	12"	Medium sand	PID (58'-60'): 43
58-60	2'	18"	Medium-fine sand	

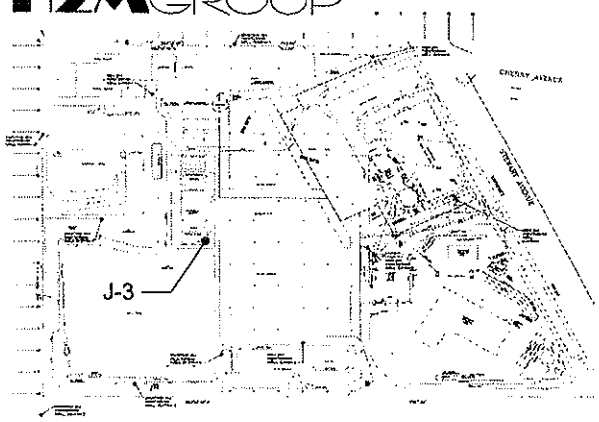
H2MGROUP



Boring # J-2	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/22/05		
COMPLETION TIME:	DATE: 6/22/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-1' Top soil	PID (0'-2'): 0.9
			1'-3' Brown, compact SM w/ sheen & petroleum odor	
				PID (2'-4'): 2.2
4-8	4'	4'	4'-5'6" Gray SM, low plasticity	PID (4'-6'): 0.0
			5'6"-6' Crushed Rock	
			6'-8' Gray/brown SM, compact	PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Gray/black SM, moist w/ sheen, petroleum odor	PID (8'-10') : 3.7

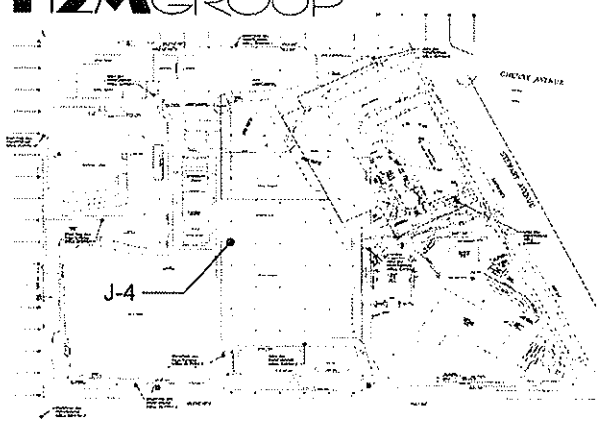
H2MGROUP



Boring # J-3	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/7/05	
COMPLETION TIME:		DATE: 6/7/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	NA	No recovery	PID (0'-2'): NA
				PID (2'-4'): 199
2-4	2'	10"	Medium sands, stone	PID (4'-6'): 267
4-6	2'	18"	Mostly coarse-gravelly sands	PID (6'-8'): 246
6-8	2'	18"	Mostly medium- course	PID (8'-10'): 146
8-10	2'	18"	Mostly coarse-gravelly sands	PID(18'-20'): 49
18-20	2'	18"	Mostly coarse- gravel	PID (28'-30'): 37.4
28-30	2'	22"	Mostly coarse- gravel	PID (38'-40'): >19.6
38-40	2'	18"	Some coarse, some clay, mostly medium sands	PID (48'-50'): 21.0
48-50	2'	24"	Mostly medium sands, some clay	PID (58'-60'): 310 *Expanded List
58-60	2'	24"	Medium sands, wet	

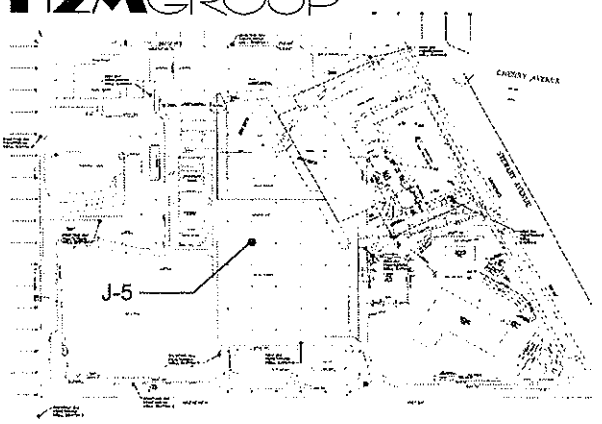
H2MGROUP



Boring # J-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/17/05	
COMPLETION TIME:		DATE: 6/17/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	O'-1'6" Brown, tightly compacted SW w/ cobble	PID (0'-2'): 0.0
			1'6"-2'6" Tan, sandy SW w/ cobble	PID (2'-4'): 0.0
			* refusal @ 4', repositioned hole 1' west of original bore	
4-8	4'	3'	4'-5' Compact, brown SW w/ cobble	PID (4'-6'): 0.0
			5'-7' Tan, sandy SW w/ cobble	
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan/brown mix, sandy SW w/ cobble	PID (8'-10'): 0.0

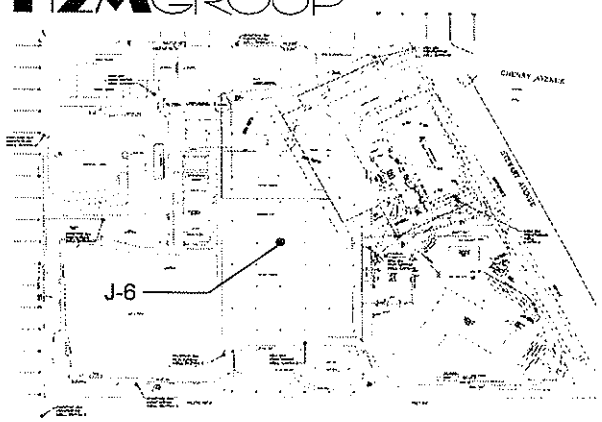
H2MGROUP



Boring # J-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/6/05	
COMPLETION TIME:		DATE: 6/6/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	15"	Subbase, gravelly sands	PID (0'-2'): 941 *BD
				PID (2'-4'): 356
2-4	2'	22"	Medium to coarse, some gravel/ rock	PID (4'-6'): 1,011
4-6	2'	12"	Brown medium sands, coarse sands	PID (6'-8'): 821
6-8	2'	24"	Mostly coarse-gravelly sands, some stone	PID (8'-10'): >1999
8-10	2'	22"	Brown medium sands, coarse sands	PID(18'-20'): 270
18-20	2'	15"	Mostly coarse-gravelly sands, some stone	PID (28'-30'): ND
28-30	2'	23"	Mostly coarse-gravelly sands, some stone	PID (38'-40'): 175
38-40	2'	23"	5" gravel, 17" clay	PID (48'-50'): 90.6
48-50	2'	24"	15" gravelly sands, 9" clay	PID (58'-60'): ND
58-60	2'	24"	6" silty sand, 6" clay, 12" white medium sands	

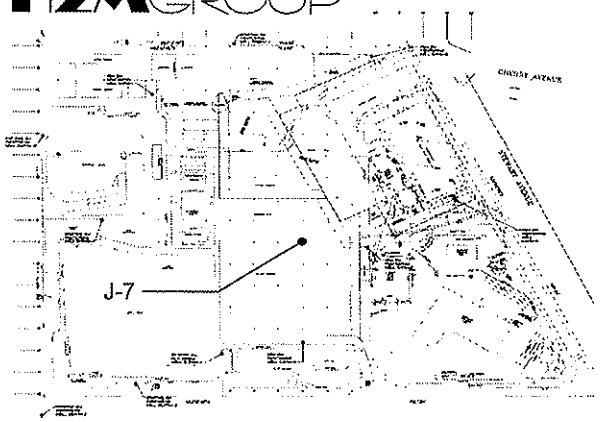
H2MGROUP



Boring # J-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/21/05		
COMPLETION TIME:	DATE: 6/21/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-1' Tan, sandy SW w/ cobble	PID (0'-2'): 0.0
			1'-3' Gray SM w. areas of clay	
				PID (2'-4'): 0.0
4-8	4'	3'	4'-5' Wet, black fine clay w/ white chunky substance	PID (4'-6'): 0.0
			5'-7' Tan, sandy SW w/ cobble	
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan, sandy SW w/ cobble	PID (8'-10') : 0.0

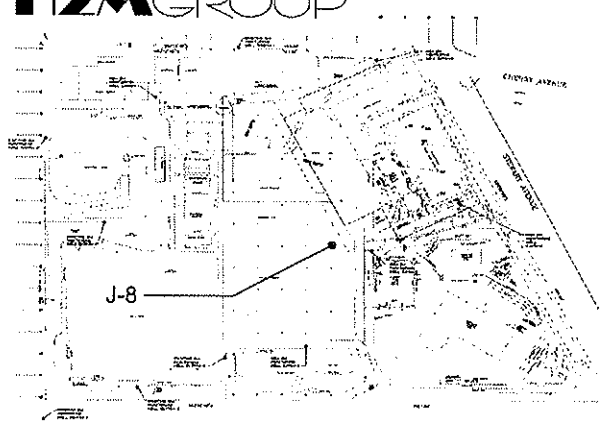
H2MGROUP



Boring # J-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/3/05	
COMPLETION TIME:		DATE: 6/3/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	24"	6" Asphalt, 18" subbase/ fill	PID (0'-2'): 0.0 * Expanded list
				PID (2'-4'): 0.0
2-4	2'	10"	Fill material	PID (4'-6'): 0.0
4-6	2'2	17"	Coarse-gravelly sands	PID (6'-8'): 0.0
6-8	2'	14"	Mostly coarse to gravelly sands	PID (8'-10'): 0.0
8-10	2'	20"	Medium gravelly sands	PID(18'-20'): 0.0
18-20	2'	23"	Coarse-gravelly sands	PID (28'-30'): 0.0
28-30	2'	24"	Mostly coarse to gravelly sands	PID (38'-40'): 0.0
38-40	2'	17"	10" coarse to gravelly sands, 7" Clay	PID (48'-50'): 0.0
48-50	2'	24"	10" brown medium sands, 4" black clay, 4" gray clay, 6" white medium	PID (58'-60'): 0.0 BD
58-60	2'	22"	7" gray clay, 15" medium coarse	

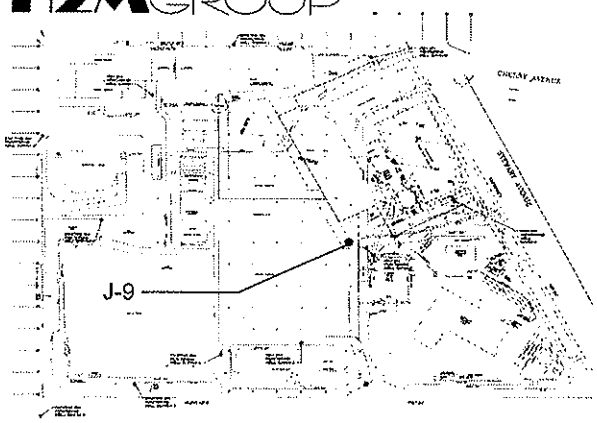
H2MGROUP



Boring # J-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/1/05	
COMPLETION TIME:		DATE: 6/11/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-6" Concrete/ asphalt	PID (0'-2'): 0.0
			6"-1'6" Black/tan SW w/ wood, cobble	
			1'6"-2'6" Tan SW , cobble, wood	PID (2'-4'): 0.0
4-8	4'	1'	4'-4'6" Gray/brown SW, cobble	PID (4'-6'): 0.0
			4'6'-5' Black/gray SW w/ sheen	
				PID (6'-8'): 0.0
8-10	2'	1'6"	8'-9' Gray SW. cobble	PID (8'-10') : 0.0
			9'-9'6" Black SW, cobble w/ sheen & petro odor	

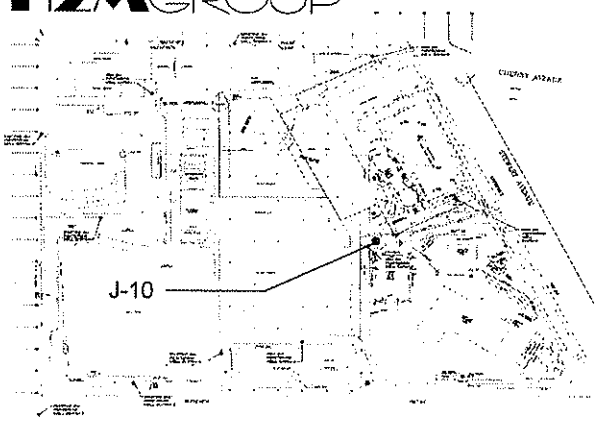
H2MGROUP



Boring # J-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/2/05	
COMPLETION TIME:		DATE: 6/2/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	23"	6" Concrete, 9" gravelly sands, 8" silty sands	PID (0'-2'): 0.0
				PID (2'-4'): 0.0
2-4	2'	19"	Medium-coarse gravel, rock	PID (4'-6'): 0.0
4-6	2'	21"	3" Fill, 18" medium to coarse, some rock	PID (6'-8'): 2.6
6-8	2'	20"	Coarse to gravelly sands, some rock	PID (8'-10'): 0.0
8-10	2'	15"	10" Coarse to gravelly, 5" medium sands	PID(18'-20'): 0.0
18-20	2'	15"	Coarse to gravelly sands, some rock	PID (28'-30'): 0.0
28-30	2'	19"	Mostly coarse to gravelly sands	PID (38'-40'): 0.0
38-40	2'	24"	8" coarse to gravelly, 16" course silt	PID (48'-50'): 0.0
48-50	2'	24"	7" Brown silts, 17" medium to coarse	PID (58'-60'): 0.0
58-60	2'	23"	Brown medium to coarse sands, wet	

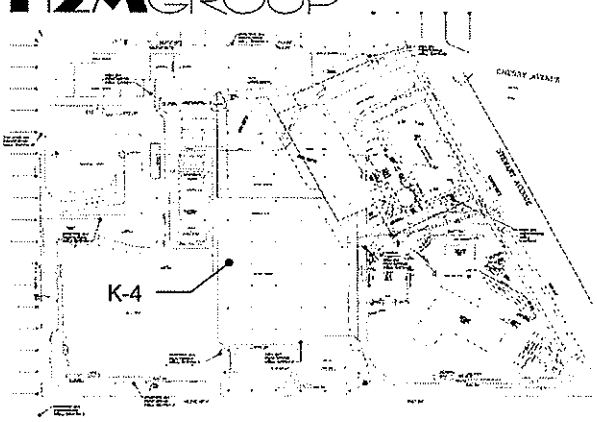
H2MGROUP



Boring # J-10	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/1/05	
COMPLETION TIME:		DATE: 6/1/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-1' Tan SW w/ cobble	PID (0'-2'): 0.0
			1'-2'6" Tan SW w/ cobble	
				PID (2'-4'): 0.0
4-8	4'	3'6"	4'-4'6" Dark tan SW w/ cobble	PID (4'-6'): 0.0
			4'6"-5'6" Dark tan SW w/ cobble	
			5'6"-7'6" Tan/brown SW w/ cobble, possible petroleum odor	PID (6'-8'): 0.0
8-10	2'	1'6"	8'-8'6" Brown SW w/ cobble, possible petroleum odor	PID (8'-10') : 0.0
			8'6"-9'6" Tan SW w/ cobble	

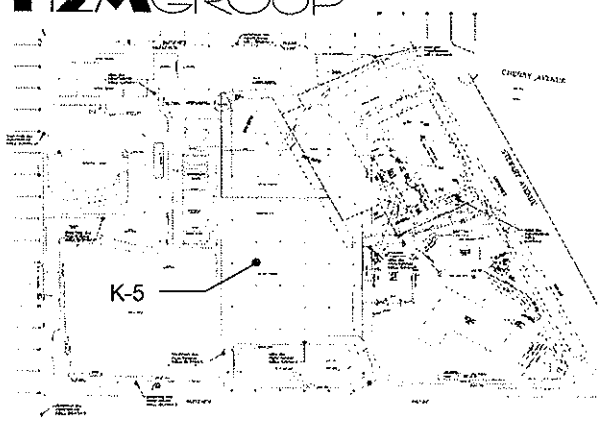
H2MGROUP



Boring # K-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/31/05	
COMPLETION TIME:		DATE: 5/31/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	0'-6" Gray SW	PID (0'-2'): 0.0
			6"-1' Tan SW	
			1'-3'6" Tan/brown SW, cobble	PID (2'-4'): 123
4-8	4'	3'6"	4'-4'6" Gray SM	PID (4'-6'): 62.1
			4'6"-5' Gray SW	
			5'-5'6" Tan SM	PID (6'-8'): 63.4
8-10	2'	1'6"	5'6"-7'6" Gray SM	PID (8'-10') : 191.0
			8'-9' Gray/brown SW	
			9'-10' Tan SW, cobble	

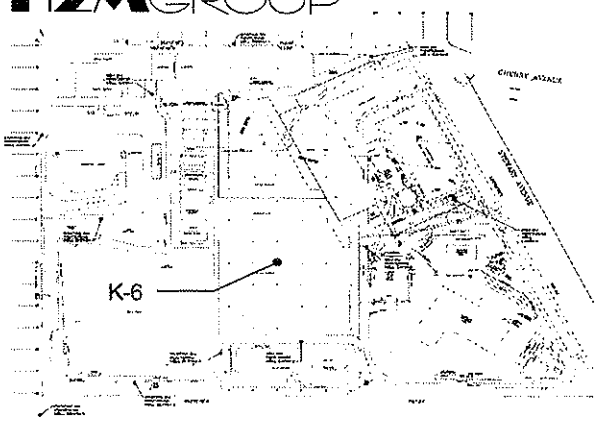
H2MGROUP



Boring # K-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/31/05	
COMPLETION TIME:		DATE: 5/31/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-2' Tan/ gray SW w/ cobble	PID (0'-2'): 5.4
			2'-3' Tan/brown SW w/ cobble	
				PID (2'-4'): 139.0
4-8	4'	2'	4'-4'6" Browb SW	PID (4'-6'): >2000
			4'6"-5' Light Tan sandy SW	
			5'-6' Brown SW	PID (6'-8'): 410
8-10	2'	2'	8'-8'6" Brown SW	PID (8'-10') : >2000
			8'6"-9' Asphalt, Tan SW, cobble	
			9'-10' Tan SW w/ cobble	

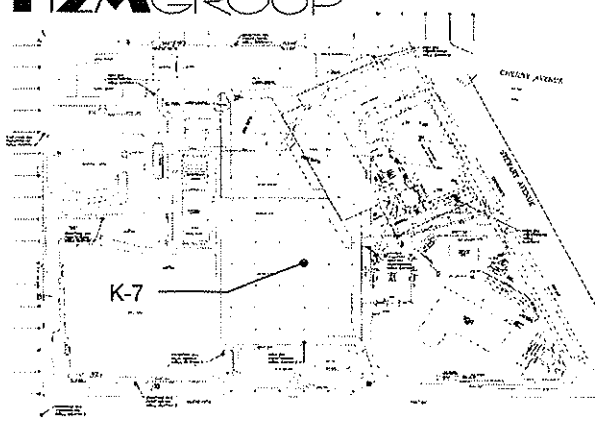
H2MGROUP



Boring # K-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/31/05	
COMPLETION TIME:		DATE: 5/31/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'6"	0'-1' Tan SW, cobble	PID (0'-2'): 624	
			1'-2' Brown SW, cobble		
			2'-3' Tan SW, asphalt, cobble, concrete	PID (2'-4'): 873	
4-8	4'	3'	4'-4'6" Tan SW, cobble	PID (4'-6'): 172	
			4'6"-6' Black SW w/ asphalt		
			6'-7' Gray/black SW w/ cobble petroleum odor	PID (6'-8'): 229	
8-10	2'	2'	8'-9' Black SW, petroleum odor, visable sheen	PID (8'-10') : 0.0	
			9'-10' Tan SW, cobble		

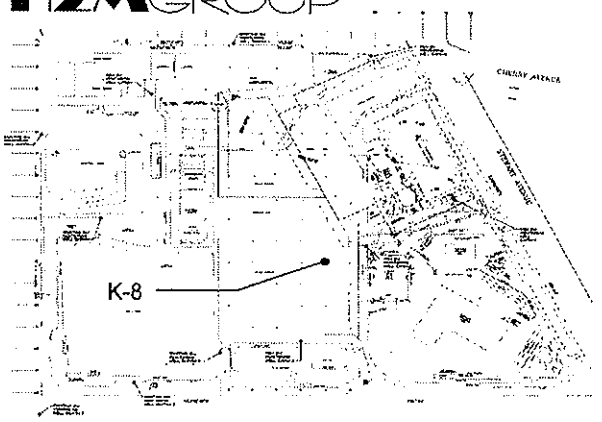
H2MGROUP



Boring # K-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/1/05	
COMPLETION TIME:		DATE: 6/1/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-1' Tan SW w/ cobble	PID (0'-2'): 0.0
			1'-1'6" Brown SW1'6"-3' Tan SW w/ areas of dark brown	
				PID (2'-4'): 0.0
4-8	4'	2'6"	4'-4'6" Tan SW w/ cobble	PID (4'-6'): 0.0
			4'6"-5' Wood, cobble, some sand	
			5'-6'6" Tan SW w/cobble, rock, areas of gray	PID (6'-8'): 0.0 MS/MSD
8-10	2'	2'	8'-9' Tan SW , some cobble	PID (8'-10') : 0.0 BD
			9'-10' Gray/ brown SW	
			* Probe hit 8" of concrete below asphalt	

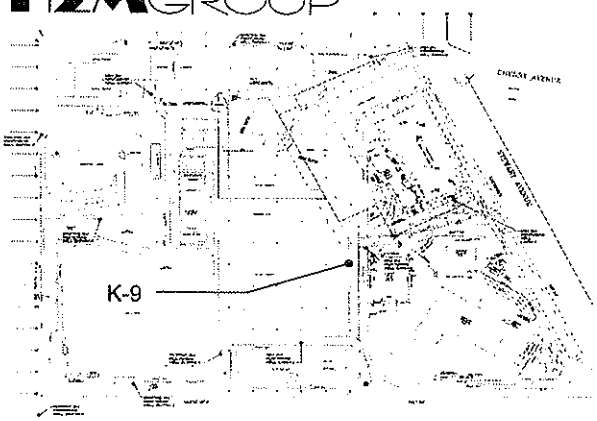
H2MGROUP



Boring # K-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type:		total depth	20'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/1/05	
COMPLETION TIME:		DATE: 6/1/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	18"	6" Tan SW, 12" Black SW, petroleum odor	PID (0'-2'):
				PID (2'-4'):
2-4	2'	12"	6" Light gray SW, 6" Light brown SW	PID (4'-6'):
4-6	2'	6"	Wood impacted	PID (6'-8'):
6-8	2'	18"	9" Dark brown SW, 9" Black, wood SW	PID (8'-10'):
8-10	2'	6"	* refusal at 10', moved locations, switched HAS rigs	PID(18'-20'):
18-20	2'	18"	6" Tan SC, 12" Tan SW	

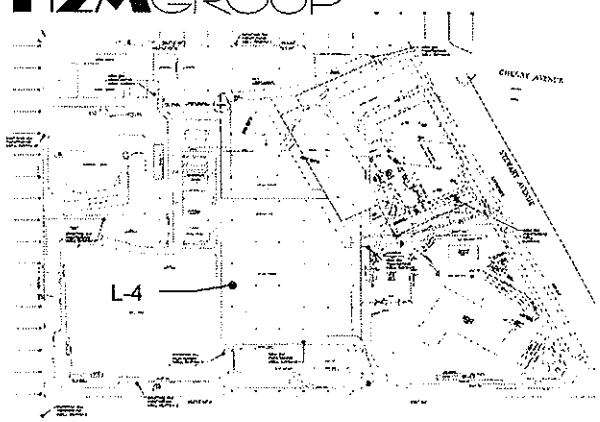
H2MGROUP



Boring # K-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 6/1/05		
COMPLETION TIME:	DATE: 6/1/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'	0'-1' Tan SW, cobble	PID (0'-2'): 0.0	
			1'-2' Brown SW, cobble, wood, layer of fiberglass at 4' mark		
				PID (2'-4'): 0.0	
4-8	4'	2'	4'-4'2" Fiber glass	PID (4'-6'): 0.0	
			4'2"-5' Brown mgs, SW w/ cobble		
			5'-6' Wet, gray SW w/ cobble	PID (6'-8'): 0.0	
8-10	2'	1'	8'-8'6" Brown SW	PID (8'-10') : 0.0	
			8'6"-9' Tan SW w/ cobble		

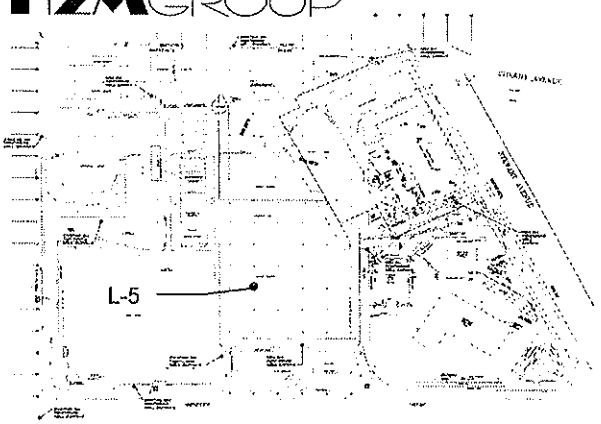
H2MGROUP



Boring # L-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/27/05	
COMPLETION TIME:		DATE: 5/27/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-1' Tan SW, areas of SM	PID (0'-2'): 0.0
			1'-2'6" Tan SM	
				PID (2'-4'): 0.0
4-8	4'	2'6"	4'-5'6" Tan SM	PID (4'-6'): 0.0
			5'6"-6'6" Tan SW	
				PID (6'-8'): 0.0
8-10	2'	1'6"	8'-9'6" Tan SW	PID (8'-10') : 0.0

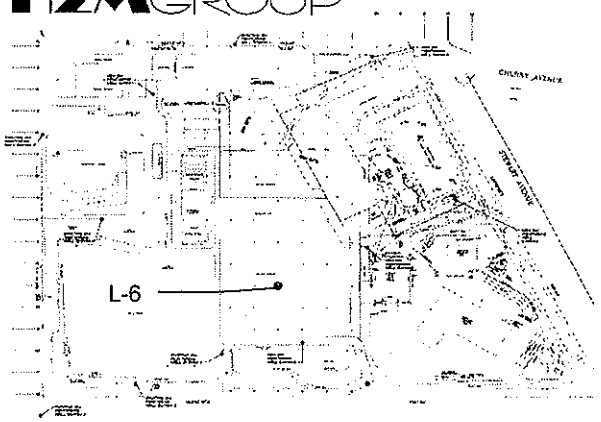
H2MGROUP



Boring # L-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:		PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE:	
COMPLETION TIME:		DATE:	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	4'	31"	Tan SW, some cobble	PID (0'-2'): 0.0
2-4				PID (2'-4'): 0.0
4-6	4'	48"	Mostly coarse, 6" silty clay	PID (4'-6'): 0.0
6-8	2'			PID (6'-8'): 0.0
8-10	2'	24"	Coarse to gravelly	PID (8'-10'): 0.0
18-20	2'	12"	Coarse to gravelly	PID (18'-20'): 77
28-30	2'	24"	Mostly coarse to gravelly	PID (28'-30'): 30.0
38-40	2'	10"	Medium to coarse	PID (38'-40'): 8.0
48-50	2'	12"	5" Coarse sand, 7" clay	PID (48'-50'): 36.2
58-60	2'	24"	Coarse to gravelly	PID (58'-60'): 0.0

H2MGROUP

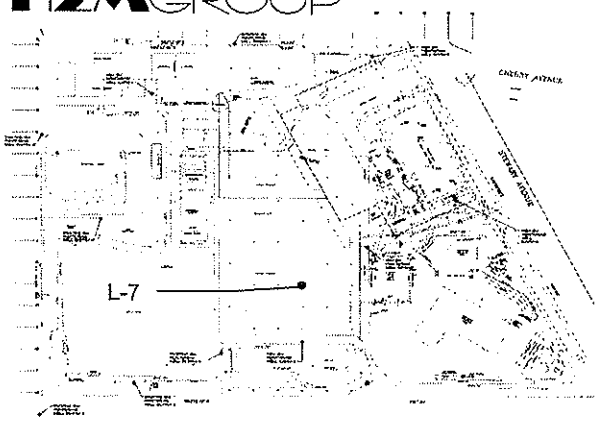


Boring # L-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 5/27/05		
COMPLETION TIME:	DATE: 5/27/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-1' Tan SW w/ cobble	PID (0'-2'): 0.0
			1'-2'6" Tan SW w/ cobble	
				PID (2'-4'): 0.0
4-8	4'	3'6"	4'-5' Light tan SW w/ cobble	PID (4'-6'): 0.0
			5'-6'6" Tan SW w/cobble	
			6'6"-7'6" Gray SW	PID (6'-8'): 0.0
8-10	2'	1'	8'-8'6" Tan SW	PID (8'-10') : 0.0
			8'6"-9' Gray SW	
				BD 10'-12'

Casing depth:
Screen depth:

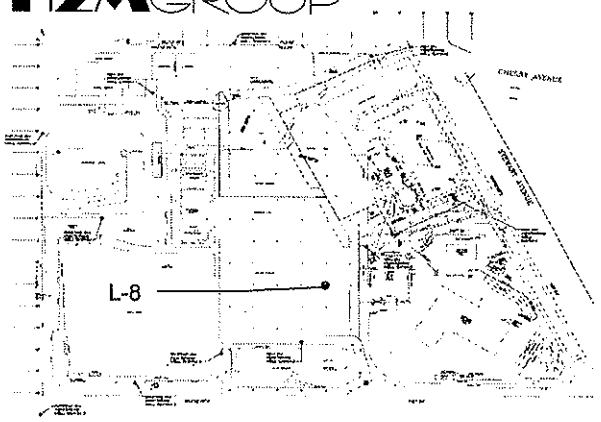
H2MGROUP



Boring # L-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/1/05	
COMPLETION TIME:		DATE: 6/1/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	18"	6" Asphalt, 6" Light Tan SW, 6" Yellowish Tan SW	PID (0'-2'):	
				PID (2'-4'):	
2-4	2'	18"	6" Black OL, 6" Olive SC. 6" Yellowish Tan SW	PID (4'-6'):	
4-6	2'	18"	Yellowish Tan SW	PID (6'-8'):	
6-8	2'	18"	Yellowish Tan SW	PID (8'-10'):	
8-10	2'	18"	Yellowish Tan SW	PID(18'-20'):	
18-20	2'	18"	9" Dark Tan GC, 9" Yellowish Tan SW	PID (28'-30'):	
28-30	2'	18"	Yellowish Tan SW	PID (38'-40'):	
38-40	2'	18"	9" Yellow/tan SP, 9" Light tan SP	PID (48'-50'):	
48-50	2'	18"	Light Tan SP	PID (58'-60'):	
58-60	2'	24"	12" Tan SP, 6" Gray clay, 6" Tan SP		

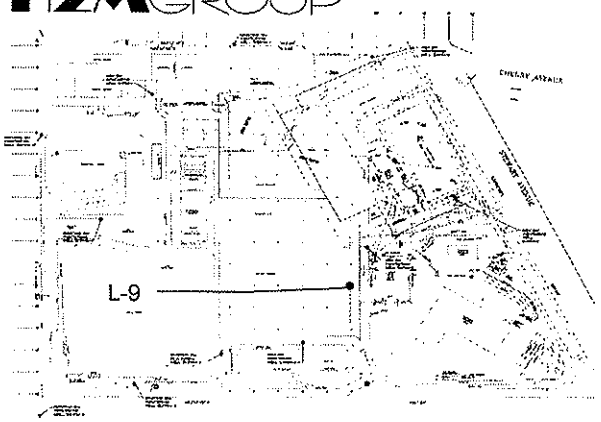
H2MGROUP



Boring # L-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 5/27/05		
COMPLETION TIME:	DATE: 5/27/05		
BACKFILL TIME:	DATE:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-4	4'	2'6"	0'-2'6" Brown SW	PID (0'-2'): 0.0	
				PID (2'-4'): 0.0	
4-8	4'	4'	4'-4'6" Tan SW	PID (4'-6'): 0.0	
			4'6"-5' Black SW		
			5'-8' Tan SW, some cobble, areas of gray	PID (6'-8'): 0.0	
8-10	2'	1'6"	8'-9'6" Tan SW w/ cobble	PID (8'-10') : 0.0	

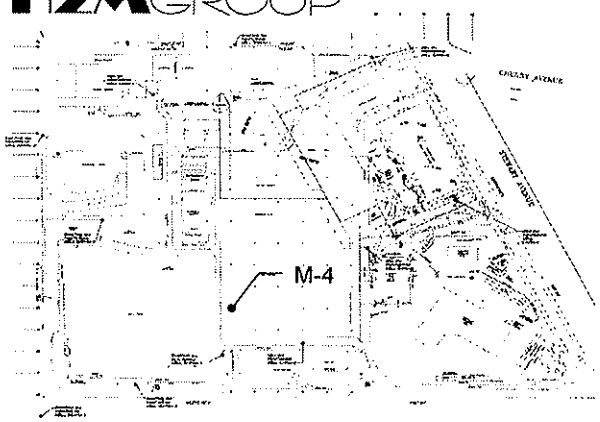
H2MGROUP



Boring # L-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/31/05	
COMPLETION TIME:		DATE: 5/31/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	18"	9" Tan SW, 9" Brown SW	PID (0'-2'): Casing depth:
				PID (2'-4'): Screen depth:
2-4	2'	24"	12" Reddish/ brown SC, 6" Light brown ML, 6" Light gray CL	PID (4'-6'):
4-6	2'	18"	6" Gray Cl, 12" Tan SW	PID (6'-8'):
6-8	2'	18"	9" Tan SW, 9" yellowish tan SW	PID (8'-10'):
8-10	2'	18"	18" Yellowish Tan SW	PID(18'-20'):
18-20	2'	18"	6" Brown SW, 6" Gray clay, 6" Tan SP	PID (28'-30'):
28-30	2'	18"	9" Gray SW, 9" Tan sandy SW	PID (38'-40'):
38-40	2'	18"	9" Tan SW, 9" Light tan SP	PID (48'-50'):
48-50	2'	18"	18" Tan SP	PID (58'-60'):
58-60	2'	18"	18" Tan SW	

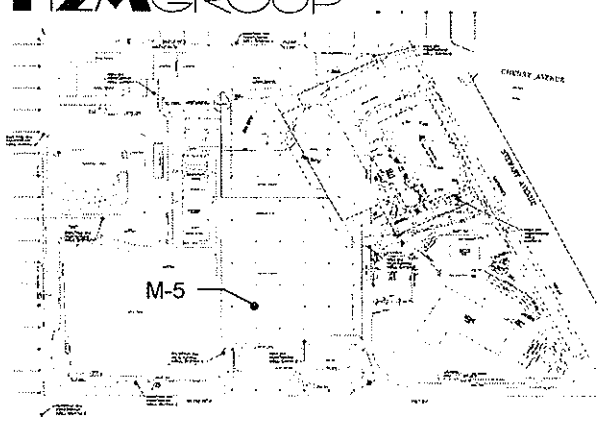
H2MGROUP



Boring # M-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/27/05	
COMPLETION TIME:		DATE: 5/27/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0-6" Tan, loose SW	PID (0'-2'): 0.0
			6"-1' Brown, loose SW	
			1'-2'6" Gray/black SP	PID (2'-4'): 0.0
4-8	4'	3'	4'-4'6" Gray SP	PID (4'-6'): 0.0
			4'6"-6' Yellowish Tan SP	
			6'-7' Tan SM	PID (6'-8'): 0.0
8-10	2'	1'6"	8'-9'6" Yellowish Tan SP	PID (8'-10') : 0.0

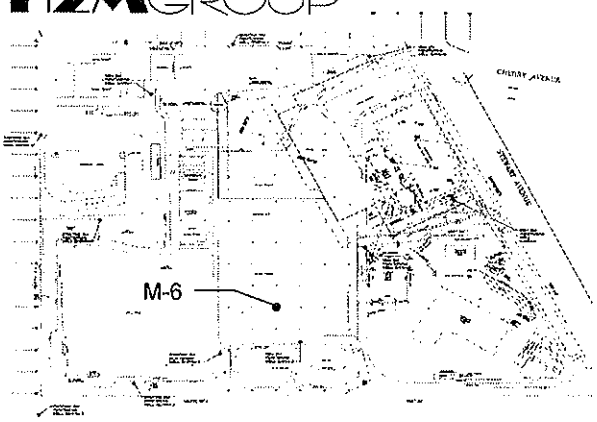
H2MGROUP



Boring # M-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"	total depth	10'	
	elevation		
HAMMER WT:	DROP:		
START TIME:	DATE: 5/27/05		
COMPLETION TIME:	DATE: 5/27/05		
BACKFILL TIME:	DATE:		
	Casing depth:		
	Screen depth:		

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-6" Gray SW	PID (0'-2'): 0.0
			6"-1' Tan SW	
			1'-4' Gray/tan SW	PID (2'-4'): 0.0
4-8	4'	4'	4'-8' Tan SW	PID (4'-6'): 0.0
				PID (6'-8'): 0.0
8-10	2'	1'6"	8'-9'6" Tan SW	PID (8'-10') : 0.0

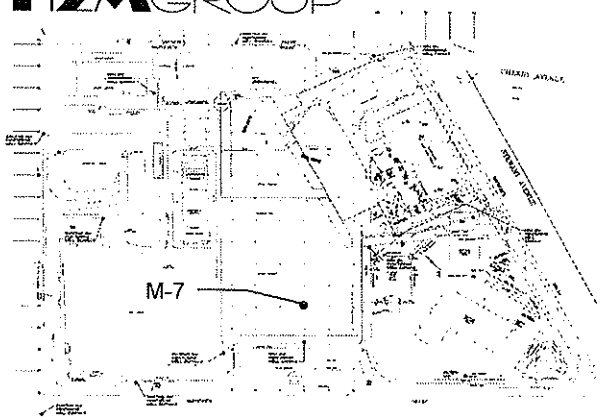
H2MGROUP



Boring # M-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/27/05	
COMPLETION TIME:		DATE: 5/27/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	1'6"	6" Light Brown SP, 6" Tan SP w/ cobble, 6" Dark brown SP	PID (0'-2'): 0.0
2-4	2'	1'6"	6" Tan SM, 6" Tan SC, 6" Yellowish Tan S,	
4-6	2'	1'6"	6" Light Brown SP w/ some cobble, 12" Tan SW	PID (2'-4'): 0.0 *BD
6-8	2'	1'6"	18" Yellowish Tan SW	PID (4'-6'): 0.0
				PID (6'-8'): 0.0
8-10	2'	1'6"	18' Yellowish tan SW	PID (8'-10') : 0.0

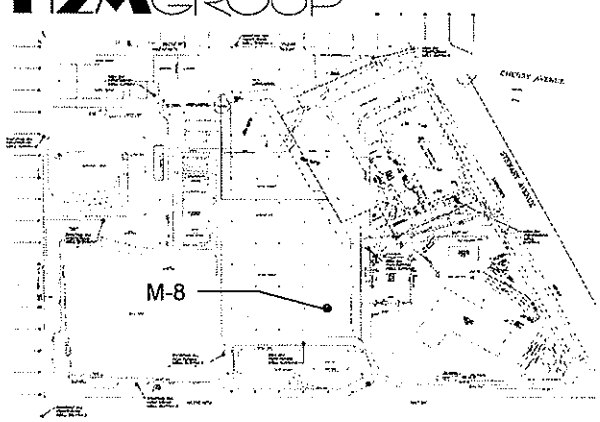
H2MGROUP



Boring # M-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: Geoprobe			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/26/05	
COMPLETION TIME:		DATE: 5/26/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-8" Tan SW	PID (0'-2'): 0.0
			8"-1' Dark gray SW	
			1'-2' Tan SM	PID (2'-4'): 0.0
			2'-2'6" Yellow clay	
			2'6"-3" Tan SP	
4-6	2'	1'6"	4'-4'10" Light brown SP	PID (4'-6'): 0.0
			4'10"-5' White stone	
			5'-5'6" Tan SP	
			5'6"-6' Tan SW	
6-8	2'	1'6"	6'-6'6" Gray SW	PID (6'-8'): 0.0
			6'6"-7' Brown SW	
			7'-8' Tan SW	
8-10	2'	1'3"	8'-8'4" Gray SW	PID (8'-10'): 0.0
			8'4"-10' Brown SW	

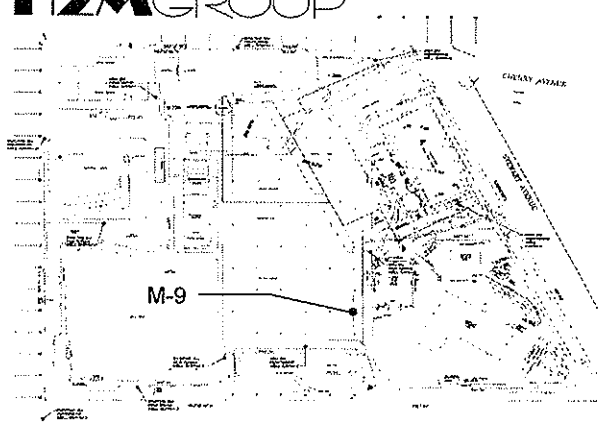
H2MGROUP



Boring # M-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/26/05	
COMPLETION TIME:		DATE: 5/26/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'	0'-2' Dark tan GM	PID (0'-2'): 0.0
			2'-3' Tan SP	
			3'-4' Light tan SW	PID (2'-4'): 0.0
4-8	4'	4'	4'-6' Dark tan SW	PID (4'-6'): 0.0
			6'-8' Dark tan SW	
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan SW	PID (8'-10') : 0.0

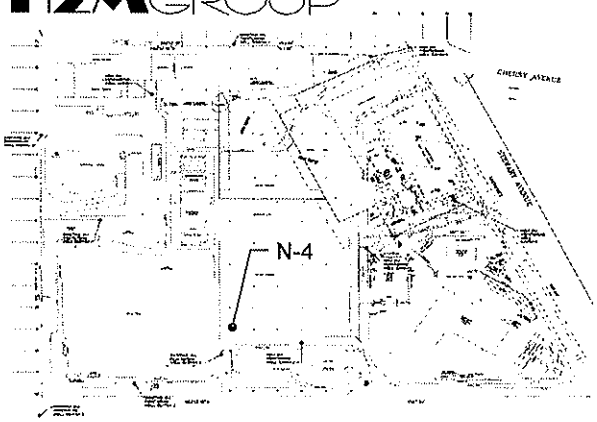
H2MGROUP



Boring # M-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/26/05	
COMPLETION TIME:		DATE: 5/26/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	2'6"	0'-1' Asphalt	PID (0'-2'): 0.0
			1'-2' Tan SW, some cobble	
			2'-2'6" Tan SM	PID (2'-4'): 0.0 *BD
4-8	4'	3'6"	4'-7'6" Tan SW w/ cobble	PID (4'-6'): 0.0 *MS/MSD
				PID (6'-8'): 0.0
8-10	2'	2'	8'-10' Tan SW	PID (8'-10') : 0.0

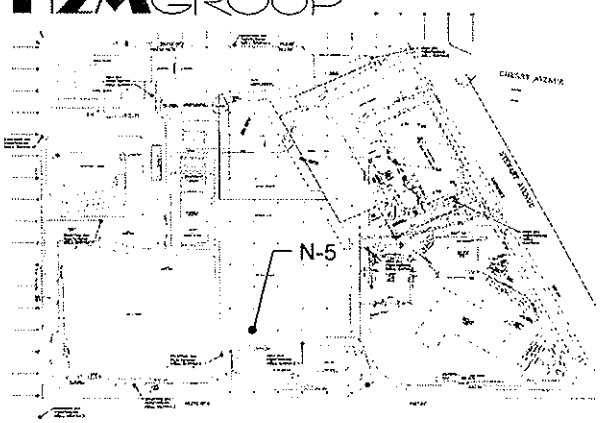
H2MGROUP



Boring # N-4	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type:		total depth	12'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/17/05	
COMPLETION TIME:		DATE: 6/17/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	4'	3'6"	6" Concrete fill	PID (0'-2'): >2000
			2" Tan , sand mgs, SW	
			2'4" Brown soil, 6" Yellowish tan SW	PID (2'-4'): >2000
4-8	4'	4	4' Yellowish Tan SW	PID (4'-6'): >2000
				PID (6'-8'): >2000
8-12	4'	4	1' Yellowish Tan SW	PID (8'-10') : 0.0 * BD
			1' Yellow Tan SM	
			1' Black/ brown SW	
			1' Yellow Tan SW	

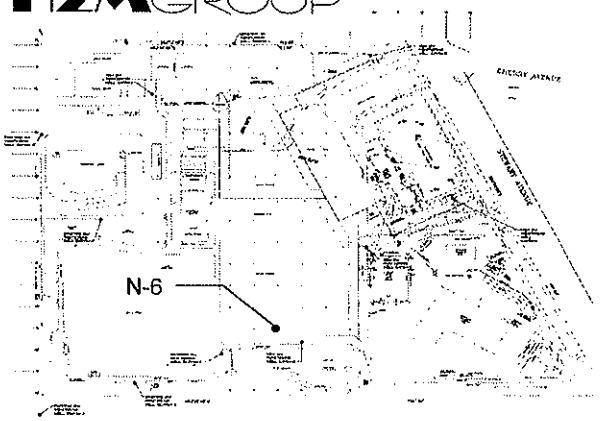
H2MGROUP



Boring # N-5	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/31/05	
COMPLETION TIME:		DATE: 5/3105	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	12"	10" Tan, mgs, SW, 2" Brown SP	PID (0'-2'): 0.0
				PID (2'-4'): 0.0
2-4	2'	18"	9" Brown SP, some cobble, 9" Yellow/ tan SP	PID (4'-6'): 0.0
4-6	2'	12"	6" Yellow/ tan SP, 6" Tan SW	PID (6'-8'): 0.0
6-8	2'	24"	24" Tan SW	PID (8'-10'):0.0
8-10	2'	24"	24" Yellowish tan SW	PID(18'-20'): 0.0
18-20	2'	18"	9" Brown SW w/ cobble, 9" Tan sand SP	PID (28'-30'): 0.0
28-30	2'	18"	6" Brown SP, 12" Tan sand SP	PID (38'-40'):0.0
38-40	2'	18"	18" Tan sand SP	PID (48'-50'): 0.0
48-50	2'	18"	6" Brown SW, 12" Light tan sand SP	PID (58'-60'): 0.0
58-60	2'	24"	24" Tan sand, SP	

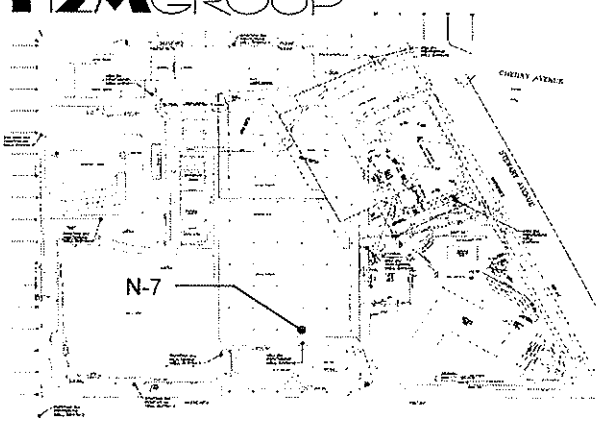
H2MGROUP



Boring # N-6	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	PRL	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/31/05	
COMPLETION TIME:		DATE: 5/31/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	1'6"	0'-1' Tan SW w/ cobble	PID (0'-2'): >2000	
			1'-1'6" Gray SW w/ cobble		
2-4	2'	1'6"	2'-3'6" Tan / gray SW	PID (2'-4'): 1858 *BD	
4-6	2'	1'	4'-5' Tan SW	PID (4'-6'): 506	
6-8	2'	1'6"	6'-6'6" Tan SW	PID (6'-8'): 1254	
			6'6"-7'6" Tan SP	PID (8'-10') : 230 *MS/MSD	
8-10	2'	1'6"	8'-9'6" Tan SW		

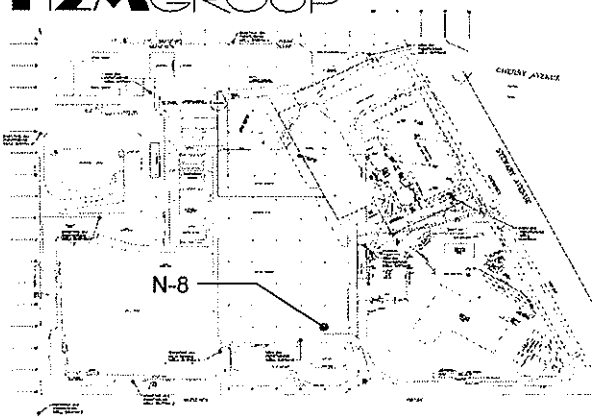
H2MGROUP



Boring # N-7	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 6/2/05	
COMPLETION TIME:		DATE: 6/2/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-2	2'	18"	7" Asphalt, 11" Tan/ yellow SW w/ gravel	PID (0'-2'): 132
				PID (2'-4'): 11.4
2-4	2'	6"	6" Brown SW w/ sand, gravel	PID (4'-6'): 20.4
4-6	2'	12"	6" Yellow/ tan SW, 6" Tan SW	PID (6'-8'): 11.5
6-8	2'	24"	12" Brown SW, 12" Yellowish tan SP	PID (8'-10'):11.8
8-10	2'	24"	3" Yellow SW, 6" Brown SW, 8" Yellow SW w/ cobble	PID(18'-20'): 1.7
18-20	2'	24"	4" Ash, 14" Tan sandy SW, 6" Tan SM	PID (28'-30'): 0.0 BD
28-30	2'	15"	6" Tan SM, 2" SP, 7" SW	PID (38'-40'):0.0
38-40	2'	6"	6" Light brown SP, rock blocked cutting spoon	PID (48'-50'): 0.0
48-50	2'	24"	24" Brown to light SW, sandy	PID (58'-60'): 0.0
58-60	2'	24"	6" Brown SP, 18" Tan SP	

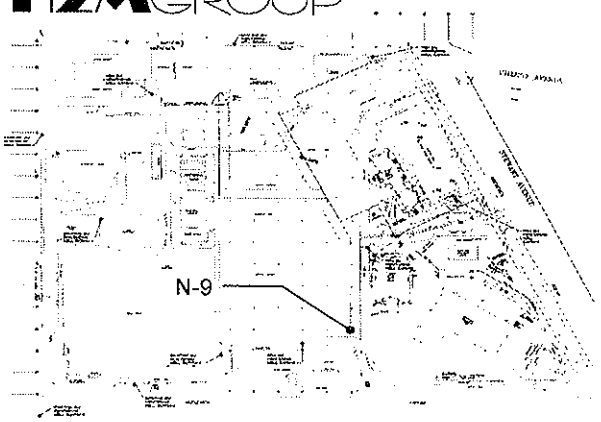
H2MGROUP



Boring # N-8	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	EVT	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Services			
DRILL METHOD: GEOPROBE			
DRILLER:			
Borehole diameter/drill bit type: 2"		total depth	10'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/26/05	
COMPLETION TIME:		DATE: 5/26/05	
BACKFILL TIME:		DATE:	
		Casing depth:	
		Screen depth:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes
0-4	2'	3'	0'-1' Gray SW	PID (0'-2'): 0.0
			0'-2' Tan SM	
			2'-3' Tan SW	PID (2'-4'): 0.0
4-8	2'	4'	4'-5' Gray SW	PID (4'-6'): 0.0
			5'-8' Tan SW	
				PID (6'-8'): 0.0
				PID (8'-10') : 0.0
8-10	2'	2'	8'-10' Tan SW	
			* Found 6-8" of Concrete below surface of asphalt	

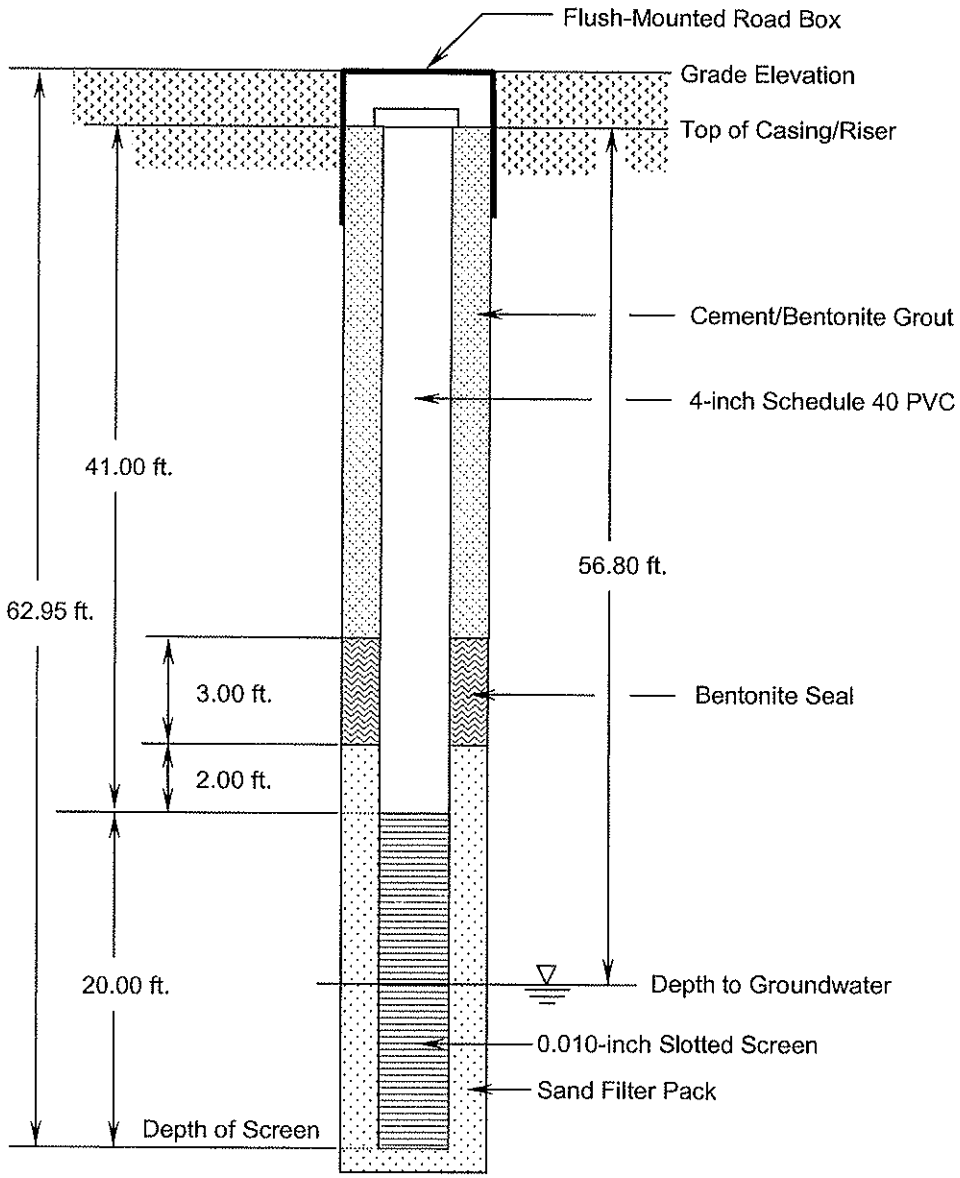
H2MGROUP



Boring # N-9	MW#	Page 1	of 1
PROJECT: **Bethpage Park, Construction Area**			
JOB # **TOBY 0402**			
LOGGED BY:	CJF	PRJ. MNGR.:	PRL
DRILLING CONTRACTOR: Universal Testing & Inspection Service			
DRILL METHOD: HSA			
DRILLER:			
Borehole diameter/drill bit type:		total depth	60'
		elevation	
HAMMER WT:		DROP:	
START TIME:		DATE: 5/27/05	
COMPLETION TIME:		DATE: 5/27/05	
BACKFILL TIME:		DATE:	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: / Screen depth:
0-2	2'	1'	0'-1' Gray SP	PID (0'-2'): 0.0	
			1'-1'6" Yellowish Tan SP		
			1'6"-2' Brown SM		
2-4	2'	2'	2'-2'6" Concrete	PID (2'-4'): 0.0	
			2'6"-3' Black SW		
			3'-3'6" Gray SW		
			3'6"-4' Dark tan SW		
4-6	2'	1'	4'-6' Loose SP (some fill)	PID (4'-6'): 0.0	
6-8	2'	6"	6'-6'6" Loose SP, fill?	PID (6'-8'): 0.0	
8-10	2'	1'6"	8'-8'6" Brown SP	PID (8'-10'): 16 * BD	
			8'6"-9'6" Yellowish tan SP, drill cuttings		
10-12	2'	1'6"	10'-12' Black SP, medium	PID (10'-12'): 54	
18-20	2'	1'6"	18'-19' Dark brown, slight sheen	PID (18'-20'): 9	
			19'-20' Tan, no odor, slight sheen		
28-30	2'	1'6"	28'-30' Tan, slight sheen	PID (28'-30'): 1.9	
38-40	2'	2'	38'-39' Tan/light brown, slight sheen	PID (38'-40'): 0.0	
			39'-40' White sand		
48-50	2'	2'	48'-50' Brown, sandy SP	PID (48'-50'): 0.0	
58'-60'	2'	2'	58'-60' Light brown SP, sandy	PID (58'-60'): > 2000	

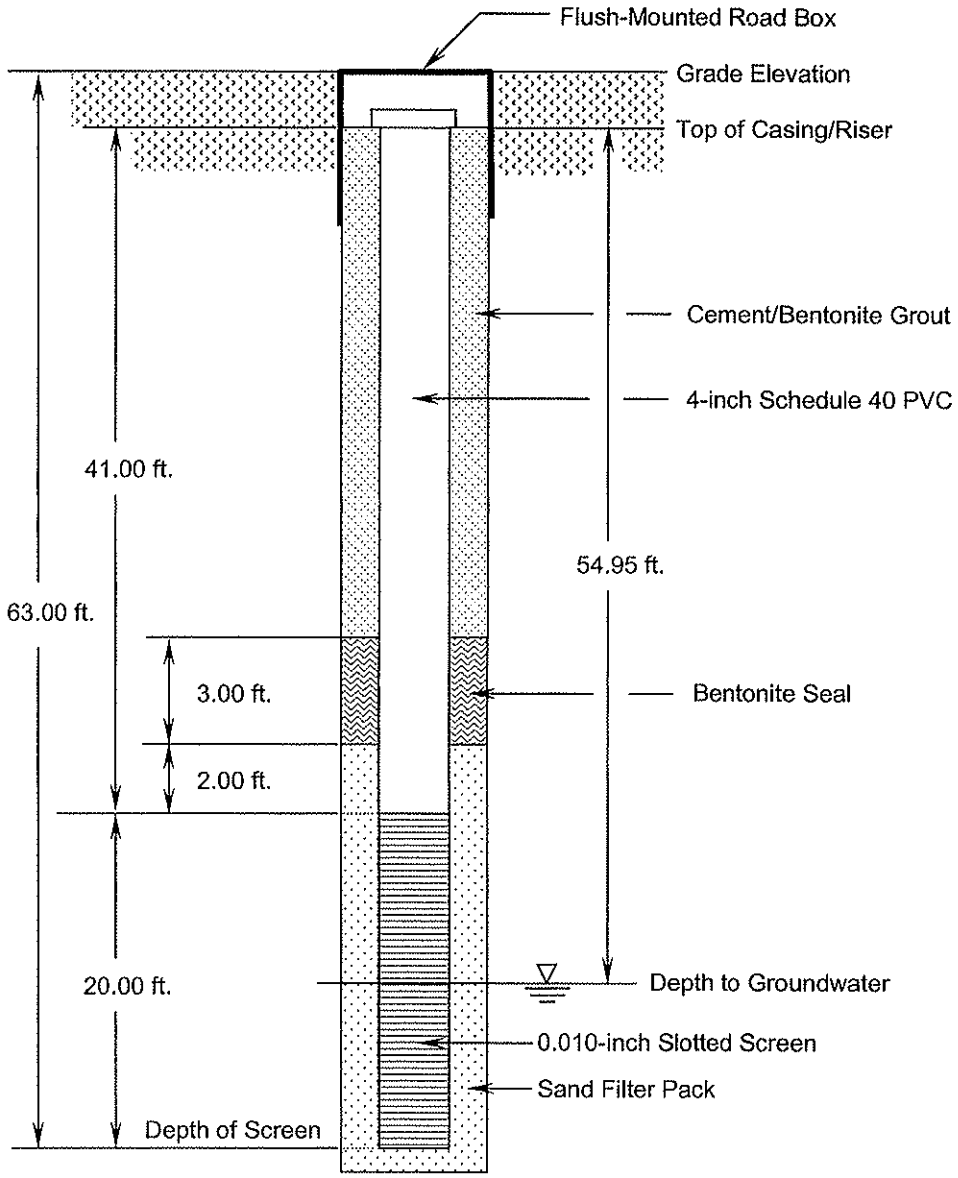
MONITORING WELL CAMW-1
CONSTRUCTION DIAGRAM
Installed: June 27, 2005



TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
BETHPAGE, NEW YORK

H2MGROUP
ENGINEERS • ARCHITECTS • SCIENTISTS • PLANNERS • SURVEYORS

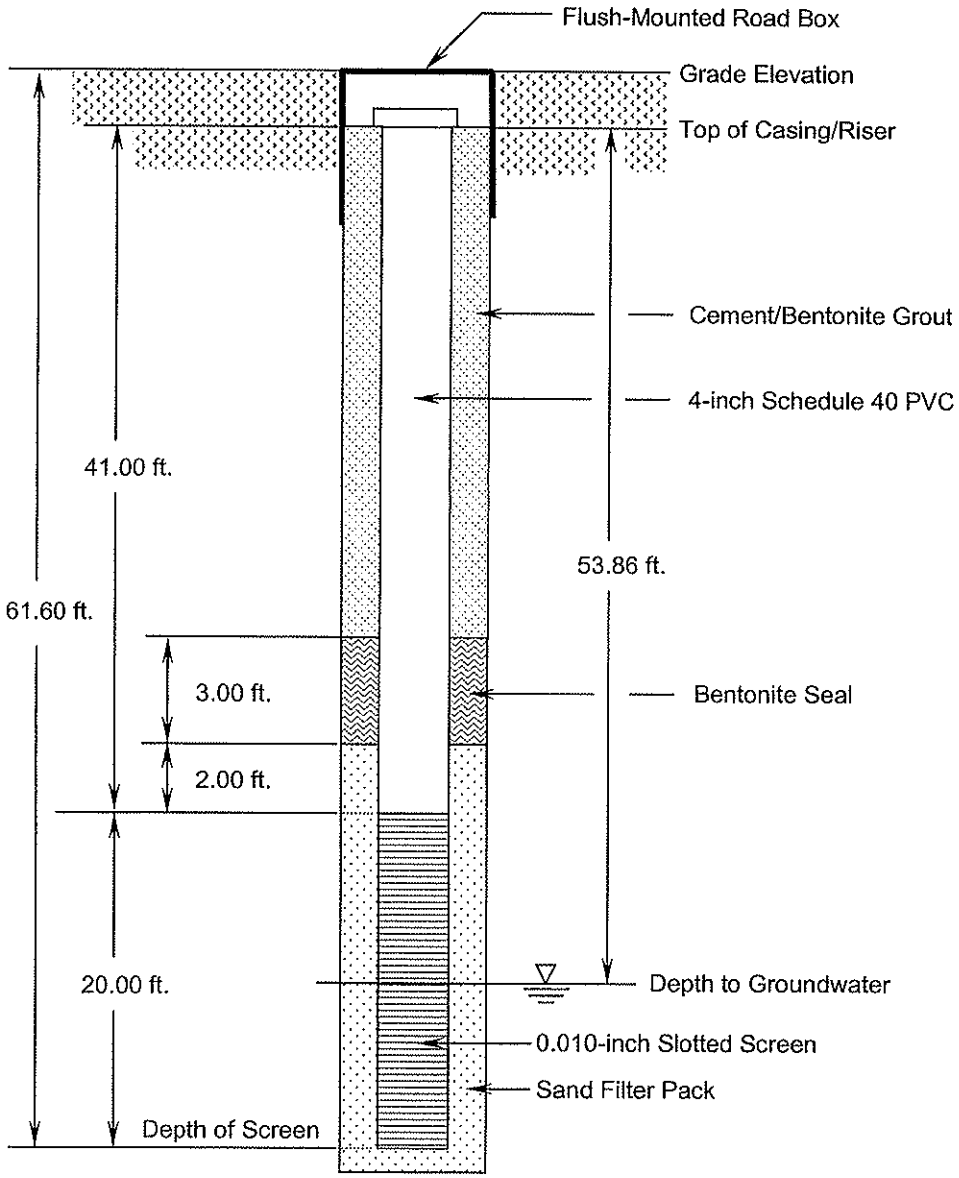
MONITORING WELL CAMW-2
CONSTRUCTION DIAGRAM
Installed: June 22, 2005



TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
BETHPAGE, NEW YORK

H2MGROUP
ENGINEERS • ARCHITECTS • SCIENTISTS • PLANNERS • SURVEYORS

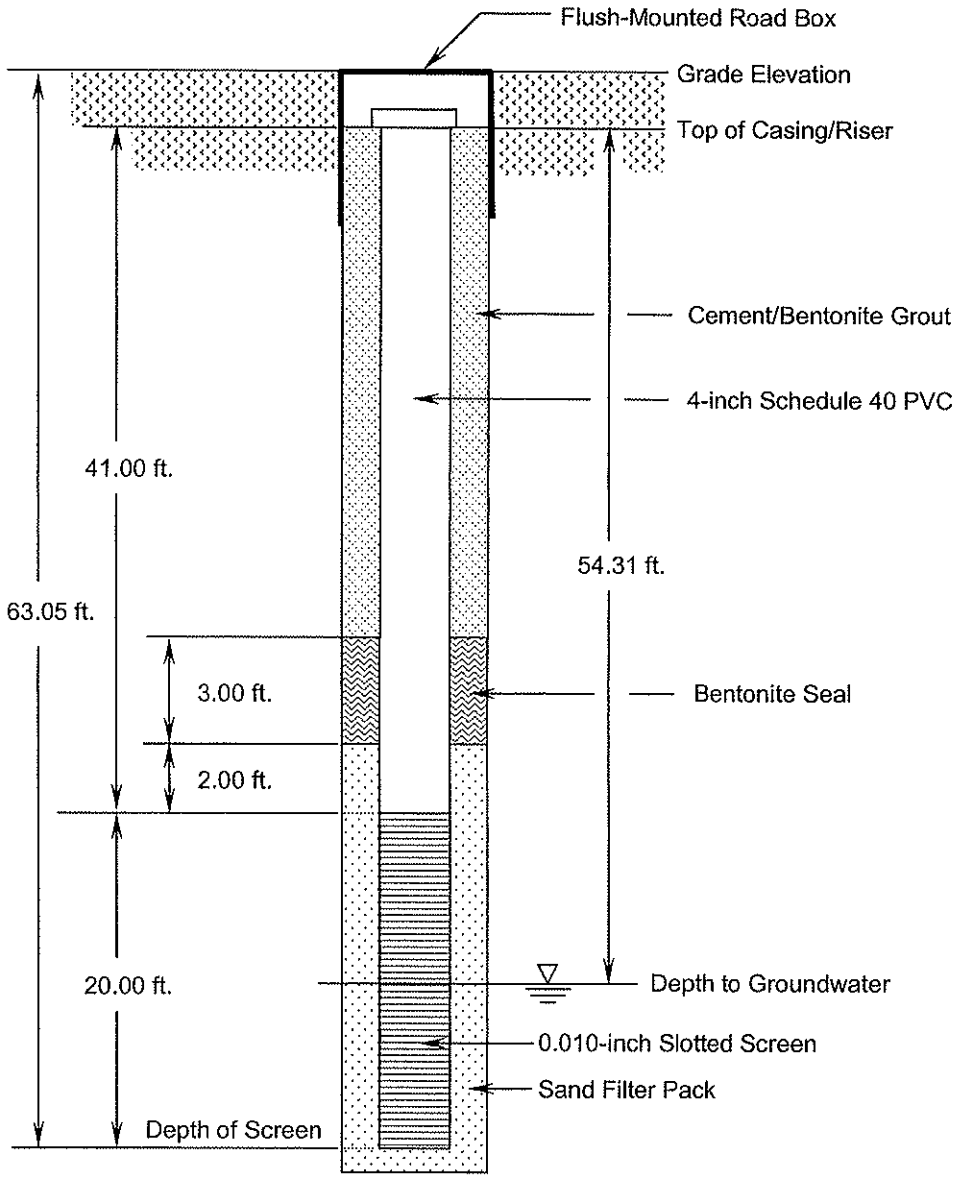
MONITORING WELL CAMW-3
CONSTRUCTION DIAGRAM
Installed: June 23, 2005



TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
BETHPAGE, NEW YORK

H2MGROUP
ENGINEERS • ARCHITECTS • SCIENTISTS • PLANNERS • SURVEYORS

MONITORING WELL CAMW-4
CONSTRUCTION DIAGRAM
Installed: June 24, 2005



TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
BETHPAGE, NEW YORK

H2MGROUP
ENGINEERS • ARCHITECTS • SCIENTISTS • PLANNERS • SURVEYORS

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, N. Y. 12853
Phone 518-251-4429
Facsimile 518-251-4428

September 23, 2005

Paul Lageraaen
H2M Group
575 Broad Hollow Rd.
Melville, NY 11747

RE: Data Usability Summary Report for Town of Oyster Bay, Bethpage site
H2M Laboratories SDG Nos. TOB001 through TOB010 and TOB046
STL SDG Nos. 107767 and 107941

Dear Mr. Lageraaen:

Review has been completed for the data packages generated by H2M Laboratories that pertain to samples collected 5/26/05 through 7/13/05 at the Town of Oyster Bethpage site. One hundred and thirty seven soil samples and nine blind field duplicates were analyzed for TCL PCBs and RCRA metals. Thirty-nine soil samples, four aqueous samples, and one aqueous blind field duplicate were processed for TCL volatiles, TCL semivolatiles, TCL PCBs, TAL metals/CN, and hexavalent chromium. Twenty-four air samples were analyzed for volatiles by USEPA method TO-15. Laboratory analytical methodologies utilized for the soil and aqueous samples are those of the NYSDEC ASP/SW846. Sample matrix spikes, and equipment and trip blanks were also processed.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, as affects the usability of the sample data. The following items were reviewed:

* Laboratory Narrative Discussion
* Case Narratives
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Preparation/Calibration Blanks
* Control Spike/Laboratory Control Samples
* Instrumental Tunes and IDLs
* Calibration/CRI/CRA Standards
* ICP Interference Check Standards
* ICP Serial Dilution Correlations
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR review level.

In summary, samples were processed in compliance with protocol, and most results are usable as reported, or with minor edit or qualification of results as estimated. The exception is that semivolatile acids (phenolics) are not usable in several of the soil samples due to an apparent matrix effect. Recollection of material at those locations is not likely to improve the data for those compounds. Some of the pesticide/PCB reporting limits (in samples with high Aroclor concentrations) are elevated.

Copies of the NYSDEC Sample Identification and Analytical Requirement Summary Forms are attached to this text, and should be reviewed in conjunction with this report. Included with this report are red-ink edited sample report forms that represent final qualified samples results.

The following text discusses quality issues of concern.

General

Blind field duplicate correlation was performed on the following samples: M6(8-10), N9(8-10), N6(2-4), N5(2-4), L7(8-10), K7(8-10), I9(2-4), I11(4-6), N7(28-30), and CAMW4. All results fall within acceptable limits, with the following exceptions, results for which are qualified as estimated in the parent and duplicate.

- arsenic, barium, and lead, (all >± 2XCRDL) in N6(2-4)
- Aroclor 1242 (>± 2XCRDL) in N5(2-4)
- arsenic and barium (both >± 2XCRDL) in I9(2-4)

The field blank FB-8 shows contamination above CRDL for chromium. Therefore, chromium detections in samples I7(0-2), I7(2-4), I7(6-8), I9(2-4), I9(4-6), and J8(8-10) are considered external contamination, and results are edited to non-detection at the originally reported concentrations. The iron concentrations shown in that blank and other field blanks are well below those of the associated samples, and no validation action is required.

The field blank associated with the aqueous samples show low concentrations of several analytes. The following element detections are within validation action level in the associated samples, and have been edited to reflect non-detection at the originally reported concentrations.

- aluminum in all aqueous samples except CAMW5
- chromium, iron, and zinc in all aqueous samples

TCL Volatiles by EPA8260B

The method blanks show consistent low levels of methylene chloride at concentrations similar to those in the project samples. Therefore, the sample detections of that compound are to be disregarded as sample components, and are edited to reflect non-detection ("U") at the CRDL, or the originally reported concentration, whichever is greater.

Results for sample analytes initially reported with the "E" flag are to be derived from the dilution ("-DL") analyses of the samples. All other results can be derived from the initial analyses.

The result for ethylbenzene in I10(4-6) is qualified as tentative in identification and estimated in value ("NJ") due to poor mass spectral match.

Calibrations standards showed responses within guidelines, with the exception of methylene chloride (26%D) in the standard associated with samples reported in SDG TOB007, results for which are qualified estimated ("UJ" or "J").

Matrix spikes of M9(4-6), M5(0-2), N9(10-12), N6(0-2), N5(0-2), L7(0-2), K7(6-8), I10(2-4), I11(6-8), J9(6-8), and CAMW3 show acceptable accuracy and precision.

Tentatively Identified Compounds (TICs) flagged as "B" by the laboratory, or identified as siloxanes are considered external contamination (indicated by presence in associated blanks), and results should be rejected as sample components.

TCL Semivolatile Analyses by EPA8270C

Samples K-6(2-4), J8(0-2), and I12(6-8) exhibited recoveries for acid surrogate 2,4,6-tribromophenol below 10% in repeated extractions, indicating that results for phenolics in those samples be rejected, and are not usable. L4(0-2) showed only 5% recovery from the initial extraction, but acceptable in the re-extraction. Because that re-extraction was performed beyond allowable holding time, the results for the phenolics are usable, but qualified as estimated.

Due to low response for internal standard d12-perylene, results for the six associated analytes are qualified as estimated in N7(0-2). The matrix spikes of the sample show similar variance, indicating a matrix effect.

The soil method blank of 5/28/05 shows contamination of diethyl phthalate. Therefore, the detection of that analyte in associated sample M5(0-2) is considered external contamination, and is edited to reflect nondetection ("U").

Calibrations standards showed acceptable responses, or slightly outlying elevated responses not affecting the usability of the sample results, with the exception that results for the following, results of which are qualified as estimated in the associated, indicated samples:

- bis-2-chloroethyl ether (37%D and 38%D) in the soils reported in SDGs TOB001, TOB002, TOB003, TOB004, TOB009, TOB010 and in all field blanks
- 2,4-dinitrophenol (30%D) in soil samples in SDGs TOB001, TOB002, TOB003, TOB007,
- 2,4-dinitrophenol and 4,6-dinitro-3-methylphenol (46%D to 60%D) in K4(8-10), K5(4-6), K5(8-10), and N6(0-2)
- 2,2'-oxybis(1-chloropropane), 2-nitroaniline, n-nitrosodi-n-propylamine, and nitrobenzene in K6(6-8), K6(8-10), and in soil samples in TOB006,
- 2-nitroaniline (26%D) in the soils in TOB005
- di-n-octylphthalate in the aqueous field samples

Matrix spikes of M8(4-6), M5(0-2), N9(10-12), and CAMW3 produced acceptable accuracy and precision.

The matrix spikes of N5(0-2), L7(0-2), K7(6-8), and I11(6-8) show acceptable recoveries, with the exception of those for pentachlorophenol, which failed to recover. The results for that compound in the parent samples are therefore rejected, and not usable.

The matrix spikes of I10(2-4) show acceptable recoveries, with the exception of that for pentachlorophenol (97% and 11%). The result for that compound in the parent sample is therefore qualified as estimated.

The matrix spikes of J9(6-8) show acceptable recoveries, with the exception of that for pentachlorophenol (15% and 11%). The result for that compound in the parent sample is therefore qualified as estimated.

The matrix spike of N6(0-2) shows acceptable recoveries, with the exception of that for pentachlorophenol (15%). The result for that compound in the parent sample is therefore qualified as estimated. The spiked duplicate (MSD) of this sample was an anomalous failed extract (2 surrogate recoveries below 10%, and several spike compound recovery failures). That MSD was not used in the evaluation.

Due to low recoveries (42%, below 47% limit) in the associated fortified blank, the results for 4,6-dinitro-2-methylphenol are qualified as estimated, with a low bias in the soil samples reported in SDGs TOB004, TOB005, TOB006, and TOB007

Tentatively Identified Compounds (TICs) flagged as "B", "X", or "A" by the laboratory are considered external contamination (indicated by presence in associated blanks), and results should be rejected as sample components. Additionally, the TIC identified as "Erucylamide" (which is a poor match) appears in samples and field blanks. That TIC is also rejected in the samples. The TICs identified as chlorinated biphenyls have also been removed from the sample TIC lists, as they are target analytes reported in the PCB fraction.

TCL PCB Analyses by EPA8082

Due to elevated surrogate standard DCB recoveries (162% to 209%), detections reported for Aroclors in samples I8(4-6) and I8(2-4) are qualified as estimated.

Reporting limits for non-detected Aroclor mixtures that were reported with the "X" flag are qualified as estimated, with a possible low bias, due to responses from other mixtures present in the sample that may mask those detections.

Aroclor results flagged as "Z" by the laboratory are qualified as estimated due to matrix interferences.

Results for sample analytes initially reported with the "E" flag are to be derived from the dilution ("-DL") analyses of the samples.

Due to interferences from the high PCB constituency of samples N9(2-4), C4(4-6), and N9(0-2) only the dilution analyses are to be used. This results in elevated reporting limits for non-detected Aroclor mixtures.

The result for Aroclor 1260 in K8(2-4) is qualified as estimated in value ("J") due to poor dual column correlation (75%D) and pattern match.

The result for Aroclor 1260 in K5(0-2) is qualified as tentative in identification and estimated in value ("NJ") due to poor dual column correlation (118%D) and pattern match. This sample had other Aroclor constituents.

The sample Aroclor 1242 detections show a weathered pattern, and the laboratory therefore worked to optimize the quantitative accuracy. Although not qualified, these values may have a bias.

Matrix spikes of Aroclors 1016 and 1260 in M9 (4-6), M5(0-2), N9(10-12), N6(0-2), N5(0-2), L7(0-2), K7(6-8), I10(2-4), I11(6-8), J9(6-8), and CAMW3 show acceptable recoveries and duplicate correlations. In some cases, the sample concentrations of Aroclor 1242 are too high to accurately evaluate the spiked Aroclor 1016 recoveries (due to similarity in pattern).

RCRA and TAL Metals/CN by 6010B, 7470, and 7471

Sample matrix spike recovery/duplicate correlation values were within validation guidelines for M9 (4-6) and CAMW3. The following validation action outliers were observed in soil matrix spike recoveries and laboratory duplicate correlations. Results for the indicated analytes are qualified estimated in all samples associated with the spike and duplicate:

Sample Spiked	Analyte	Rec Outlier	Dup Outlier	Associated Samples
M5(0-2)	Manganese	165%		TOB002
N9(10-12)	Arsenic	40	102%RPD	TOB003
	Copper	365		"
N6(0-2)	antimony	41		TOB004
	Chromium	126		"
	Lead	66		"
N5(0-2)	antimony	48		TOB005
L7(0-2)	antimony	54		TOB006
	Lead	150		"
	Manganese	- 5		"
K7(6-8)	antimony	59		TOB007
	Chromium	70		"
	Lead	52		"
	Manganese	66		"
I10(2-4)	antimony	56		TOB008
	Cadmium	55		"
	Chromium	- 22		"
	Calcium		164%RPD	"
I11(6-8)	antimony	71		TOB009
	Manganese	130		"
	Selenium	42		"
J9(6-8)	antimony	57		TOB010
	Selenium	155		

ICP serial dilution correlation evaluations were performed on M9 (4-6), M5(0-2), N9(10-12), N6(0-2), N5(0-2), L7(0-2), K7(6-8), I10(2-4), I11(6-8), J9(6-8), and CAMW3. Results for the following sample analytes are qualified estimated due to outlying correlations:

- potassium in samples in SDGs TOB001, TOB003, and the aqueous samples
- potassium and zinc in samples in TOB004 and TOB005
- aluminum, barium, calcium, chromium, iron, magnesium, manganese, and zinc in TOB006 (it is noted that the serial dilution of L7(0-2) was processed twice, and results used from a different analysis sequence than that of the parent sample).
- zinc in samples in SDG TOB007
- calcium in samples in SDG TOB009

Due to low recoveries of CRI/CRA standards, results for cyanide (64%) in the samples in SDGs TOB003 and TOB008 are qualified estimated, with a low bias, on the attached forms. No corrective laboratory action is required for CRI/CRA results.

Volatile Analyses by EPA TO-15

Results for sample analytes initially reported with the "E" flag are to be derived from the dilution ("-DL") analyses of the samples. Additionally results for 1,3-butadiene in D1-8-10 and D1-58-60 are also edited to be derived from the dilution due to initial interferences.

The result for dichlorodifluoromethane in H13 10 is very slightly above the linear range of the instrument, and therefore is qualified as estimated. The degree of bias is not expected to be great.

Samples D1-58-60 and E3-8-10 exhibited one or more elevated internal standard responses. Results for associated **detected** compounds in those samples are qualified as estimated ("J"),

The LCSs show several outlying recoveries. Results for those analytes in associated samples are qualified as estimated. They are the following:

- hexachlorobutadiene (47% to 62%) in E3-8-10 and E5-8-10
- 1,3,5-trimethylbenzene (140%) in D1-8-10 and D1-58-60
- 1,1-dichloroethene (64% and 45%) and 1,3-butadiene (40%) in E5-8-10
- 1,2,4-trichlorobenzene (37% to 66%) and hexachlorocyclobutadiene (46% to 65%) in all samples
    - reported in SDG 107941
- dichlorodifluoromethane in H13 19, E11 10, and H13 52

Wet Chemistry Analyses-Cr+6 by SW7196

Review was conducted for method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable unless noted specifically within this text.

The matrix spike and duplicate of M9 (4-6), M5(0-2), N9(10-12), N6(0-2), N5(0-2), L7(0-2), K7(6-8), I10(2-4), I11(6-8), J9(6-8), and CAMW3 show acceptable accuracy and precision.

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

Very truly yours,

Judy Harry

Att

VALIDATION QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

U - **The analyte was analyzed for, but was not detected above the reported sample quantitation limit.**

J - **The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.**

N - **The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification."**

NJ - **The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.**

UJ - **The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.**

R - **The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.**

Nancy J. Potak
1796 Craftsbury Road
Greensboro, Vermont 05841

Phone (802) 533-9206
Fax (802) 533-9206
email: npotak@vtlink.net

September 19, 2005

Paul R. Lageraaen, P.E.
H2M
575 Broad Hollow Road
Melville, NY 11747-5076

Re: **Town of Oyster Bay – Bethpage Community Park SDG: TOB030**

Dear Paul,

Enclosed are the data validations for the town of Oyster Bay - Bethpage Community Park.

Please do not hesitate to contact me if you should have any questions concerning these reports.

Sincerely,

Nancy J. Potak

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For Town of Oyster Bay / Bethpage Community Park
Project TOBY 04-02

PCB Analyses NYSDEC Method 95-3
Samples Collected: June 15, 2005
Samples Received: June 15th & 16th, 2005
Sample Delivery Group: TOB030
Laboratory Reference Numbers:

E9 (0-2)	0506481-001
E9 (2-4)	0506481-002
E9 (4-6)	0506481-003
E9 (6-8)	0506481-004
E9 (6-8) MS	0506481-004 MS
E9 (6-8) MSD	0506481-004 MSD
E9 (8-10)	0506481-005
E9	0506481-006
G7 (0-2)	0506481-007
G7 (2-4)	0506481-008
G7 (4-6)	0506481-009
G7 (8-10)	0506481-010
FB30	0506481-011
J1 (0-2)	0506530-001
J1 (2-4)	0506530-002
J1 (4-6)	0506530-003
J1 (6-8)	0506530-004
J1 (8-10)	0506530-005
J1 (18-20)	0506530-006
J1 (28-30)	0506530-007
J1 (38-40)	0506530-008
J1 (48-50)	0506530-009
J1 (58-60)	0506530-010
J1	0506530-011

Soil samples were received for analyses of the PCB TCL analyte list by the NYS DEC ASP protocols. A complete analytical validation was performed based upon the US EPA Region II data validation protocols and following parameters:

* - Data Completeness
* - Holding Times
* - Laboratory Blanks
* - Field Blanks
- Surrogate Recoveries
* - Surrogate Retention Times
* - Matrix Spike / Matrix Spike Duplicate
* - Blank Spike
* - Initial Calibration
* - Continuing Calibration
* - Method Blanks
* - Compound Identification

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Note: All of the following are observations and comments. The laboratory is not required to provide a written response to any of the following comments.

The Aroclor patterns of these samples were often complex, but clearly Aroclor 1242 predominated in most of the samples. The Aroclor 1242 was often severely weathered resulting in a pattern that did not always agree with the Aroclor 1242 standard. Aroclors 1254 and 1260 were also present in some of the samples.

A detailed explanation of the laboratory's quantitations is included at the end of this report. No significant deviations from the laboratory reported results were found during the validation.

All of the Aroclors in this sample delivery group were clearly above or below the 1,000 ug/kg clean up criteria.

The laboratory's case narrative states:

All soil samples were cleaned up with concentrated sulfuric acid and were subjected to sulfur cleanup with TBA.

Since this SDG comprised 21 soil samples, one of the samples was extracted in another preparation batch. An additional lab fortified blank (LFB) and method blank for batch 13964 is included in the package.

Sample E9 (6-8) *was analyzed as the matrix spike/matrix spike duplicate (MS/MSD).*

In four samples, surrogate recovery for DCB is biased high on one column due to unresolved interferences.

TCX recovery is also high on one column in one sample due to matrix interference. In one other sample, TCX is not detected on one column because it is masked by a large interfering compound.

Eight samples exceeded the calibration range for PCBs and were reanalyzed at a dilution. Both sets of data are reported.

In dilutions of 1:10 and above, no surrogate recoveries are reported, because the surrogate spike is diluted out.

Positives are reported to the practical detection limit of ½ of the reporting limit.

In samples with positive Aroclors, low levels of other Aroclors could be masked due to the overlap of patterns. These other Aroclors are flagged with the qualifier X.

The qualifier "Z" is used for AS1254 in presence of higher levels of AR1242 to indicate that the result for AR1254 is biased high due to the overlap of patterns.

Samples which were flagged with the "Z and "X" qualifiers by the laboratory were flagged with the "J" qualifier during the data validation to note that they are estimated values.

Holding Times

The data were validated against the EPA Region II Technical Holding Times: Water and soil samples for PCB analysis must be extracted within 7 days of the date of collection. Extracts must be analyzed within 40 days of the date extraction.

All extractions and analyses were performed within the required holding times.

Surrogate Recoveries

The laboratory's case narrative states:

In four samples, surrogate recovery for DCB is biased high on one column due to unresolved interferences.

TCX recovery is also high on one column in one sample due to matrix interference. In one other sample, TCX is not detected on one column because it is masked by a large interfering compound.

All surrogate recoveries were within the required quality control limits of 30% - 150% with the following exceptions:

Sample	TCX 1	TCX 2	DCB 1	DCB 2
J1 (2-4)				**181%**
J1 (18-20)	**591%**			**192%**
J1 (4-6)				**163%**
G7 (8-10)		**0%**		**191%**

The high recovery of TCX 1 in sample J1 (18-20) is due to the presence of an interfering peak. This sample had to be reanalyzed at a 10X dilution due to high concentrations of Aroclors 1242 and 1254. Similar surrogate recoveries were obtained in the 10X dilution.

Aroclors 1242, 1254 and 1260 were present in sample G7 (8-10) at concentrations above the linear range. The data were reported from a 500X dilution and the missing TCX in the undiluted analysis does not affect the end use of the data. The data for the undiluted analysis were flagged with the "R" qualifier.

The data for the samples J1 (2-4) and J1 (4-6) were not qualified since only one surrogate on each column was above the quality assurance limit. The high recoveries were due to interferences.

Matrix Spike

Sample E9 (6-8) (Lab. #: 0506481-004) was used as the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required quality assurance limits.

Aroclor 1016 and Aroclor 1260 were added as the spiking compounds at a concentration of 170 ug/kg.

Blank Spike

Two blank spikes were analyzed with this sample delivery group. All blank spike recoveries were within the required limits.

Initial Calibrations

No problems were found with the initial calibration. All %RSDs were less than 30%.

Continuing Calibrations

All of the percent differences in the continuing calibrations were less than 25% with the following exceptions:

The percent differences of two of the five Aroclor 1260 peaks in both the CLP and CLP2 columns were above 25% in the continuing calibration standards analyzed on 6/27 at 12:24 and 17:20 (only one peak was above 25% in CLP2 at 17:20.

The data for the associated samples, J1 and J1DL were not qualified since the mean recovery was less than 25%.

Surrogate Retention Times

All surrogate retention times were within the required limits for both surrogates and on both columns.

Method Blanks

No problems were detected with any of the method blanks.

Calibration Blanks

No problems were detected with the calibration blanks associated with this sample delivery group.

Field Blank

None of the target compounds were detected the field blank.

Sample Results

The data were qualified on the basis of the percent difference of the concentrations on the two columns:

% Difference	Qualifier
0 - 25%	None
25 - 70%	"JP"
70 - 100%	"JNP"
> 100%	"RP"
100 - 200% (Interference detected)*	"JNP"

All of the percent differences in this sample delivery group were less than 70%. Percent differences greater than 25% were flagged with the "JP" qualifier. This did not affect the end use of the data since all of the affected samples were either much higher or lower than the 1,000 ug/kg clean up limit.

No other problems were detected with the sample data.

H2M PROCEDURE FOR IDENTIFICATION/QUANTITATION OF AROCLORS

The following is an explanation of our procedure for identification / quantification of PCBs as it applies to the TOB project. It also offers a clarification, why no AR1248 identifications can be found on the integrams, even though certainly many peaks present in the samples are contained in the pattern of AR1248.

The difficulty in analyzing samples for aroclor mixes, is the presence of other interfering compounds, but more so the mutual interference of the aroclors with each other. This is primarily due to the overlap of their patterns. Weathering of the PCBs presents another problem.

The greatest difficulty lies in distinguishing aroclors **AR1232, AR1242, AR1016 and AR1248**. These aroclors are not only overlapping, but are basically "coeluting". **They contain almost the same congeners, and the only distinction is the ratio of the congeners,** e.g. the earliest congeners

are very low in the AR1248, some late congeners are practically missing in AR1016, etc. The distinction becomes even more difficult, if the sample also contains AR1254, which is interfering with the late congeners, or if the ratio of the congeners is altered by weathering. Computer identifications are of very little help to determine, which of the four aroclors is present. The identification is based on the evaluation of the analyst, who will use **pattern recognition**, which is basically a **comparison of peak ratios.**

These four "coeluting" aroclors cannot be reported simultaneously. If a mix of any two (or more) of these aroclors were present in a sample, only the largest of the four aroclors could be identified. The lower levels of the other aroclors would be **masked** (that means could not be found), because the same congeners are present. These congeners of the other masked aroclor would contribute to the quantity reported for the large identified aroclor, and its quantity is included in the quantity of the reported aroclor. Potentially masked aroclors are reported with the qualifier "X" in the sample reports.

The overlap of the four "coeluting" aroclors with AR 1254 is significant, but AR1254 can be identified and quantified in the presence of one of these earlier eluting four aroclors. There is less of an overlap of the four "coeluters" with AR1260, where the patterns are easily distinguishable, and the early portion of the "coeluters" barely interferes with the late portion of the AR1260 pattern and vise versa. If, however, very high concentrations of one of the early aroclors were found, the tail of the pattern would still be high enough to mask low levels of AR1254 and even AR1260. In those cases these aroclors will also be reported with the qualifier "X".

Due to the fact that the four early eluting aroclors share the same congeners, in several cases the same congener is used as a quantification peak in more than one aroclor. The computer could not give more than one identification and one quantification for one peak. The sample file is therefore processed with more than one method to quantify the different aroclors. The most practical way of quantification is to **combine the aroclors that were identified by the analyst in one method**, so that the quantities for these aroclors can be determined from one integram. If the analyst identified AR1242, AR1254, and AR1260, the method that is used for the integration will only report these three aroclors. The computer printout with this method will therefore not identify or quantify AR1232, AR1248, and AR1016, which cannot be analyzed next to AR1242. This does not mean that the analyst has not evaluated the chromatogram for the presence of these other aroclors. This was done as the first step, before a determination was made, which of the four coeluting aroclors was to be quantified.

In the samples of the TOB project, AR1242 was found. In the surface samples and those samples that are close to the surface this aroclor shows **severe weathering**: The early light congeners are depleted, which results in a distortion of the pattern with much higher later eluting congeners. As a result, the pattern resembles the AR1248 pattern very strongly. Without the knowledge of the depth of the samples and the comparison with deeper

levels, the aroclor could easily have been taken for AR1248. Only the ratio of some of the early congeners look more like AR1242, even in the surface samples. In order to properly quantify this weathered AR1242, the quantification peaks were specifically selected to provide an average that is representative of the quantity present. (Quantifying the weathered AR1242 as AR1248 would probably have resulted in a reasonable quantification of the PCBs present.)

AR1248 was not "overlooked", but the pattern was identified as weathered AR1242. In all samples containing more than two times the reporting limit of AR1242, AR1248 was reported with the qualifier "X" as potentially masked at a lower level. Any AR1248 that could be present would be included in the concentration reported for AR1242.

Nancy J. Potak
1796 Craftsbury Road
Greensboro, Vermont 05841

Phone (802) 533-9206
Fax (802) 533-9206
email: npotak@vtlink.net

September 19, 2005

Paul R. Lageraaen, P.E.
H2M
575 Broad Hollow Road
Melville, NY 11747-5076

Re: **Town of Oyster Bay – Bethpage Community Park SDG: TOB032**

Dear Paul,

Enclosed are the data validations for the town of Oyster Bay - Bethpage Community Park.

Please do not hesitate to contact me if you should have any questions concerning these reports.

Sincerely,

Nancy J. Potak

SUMMARY OF THE ANALYTICAL DATA VALIDATION
For Town of Oyster Bay / Bethpage Community Park
Project TOBY 04-02

PCB Analyses NYSDEC Method 95-3
Samples Collected: June 16, 2005
Samples Received: June 16, 2005
Sample Delivery Group: TOB032
Laboratory Reference Numbers:

F10 (0-2)	056524-001
F10 (2-4)	056524-002
F10 (4-6)	056524-003
F10 (8-10)	056524-004
G8 (0-2)	056524-005
G8 (2-4)	056524-006
G8 (4-6)	056524-007
G8 (8-10)	056524-008
G9	056524-009
G9 (0-2)	056524-010
G9 (2-4)	056524-011
G9 (4-6)	056524-012
G9 (6-8)	056524-013
G9 (8-10)	056524-014
G9 (8-10) MS	056524-014 MS
G9 (8-10) MSD	056524-014 MSD
G10 (0-2)	056524-015
G10 (2-4)	056524-016
G10 (4-6)	056524-017
G10 (8-10)	056524-018
FB32	056524-019

Soil samples were received for analyses of the PCB TCL analyte list by the NYS DEC ASP protocols. A complete analytical validation was performed based upon the US EPA Region II data validation protocols and following parameters:

* - Data Completeness
* - Holding Times
* - Laboratory Blanks
* - Field Blanks
* - Surrogate Recoveries
* - Surrogate Retention Times
* - Matrix Spike / Matrix Spike Duplicate
* - Blank Spike
* - Initial Calibration
* - Continuing Calibration
* - Method Blanks
* - Compound Identification

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Note: All of the following are observations and comments. The laboratory is not required to provide a written response to any of the following comments.

The Aroclor patterns of these samples were often complex, but clearly Aroclor 1242 predominated in most of the samples. The Aroclor 1242 was often severely weathered resulting in a pattern that did not always agree with the Aroclor 1242 standard. Aroclors 1254 and 1260 were also present in some of the samples.

A detailed explanation of the laboratory's quantitations is included at the end of this report. No significant deviations from the laboratory reported results were found during the validation.

All of the Aroclors in this sample delivery group were clearly either above or below the 1,000 ug/kg clean up criteria.

The laboratory's case narrative states:

All soil samples were cleaned up with concentrated sulfuric acid and were subjected to sulfur cleanup with TBA.

Sample G9 (8-10) *was analyzed as the matrix spike/matrix spike duplicate (MS/MSD).*

Four samples exceeded the calibration range for PCBs and were reanalyzed at a dilution. Both sets of data are reported.

Positives are reported to the practical detection limit of ½ of the reporting limit.

In samples with positive Aroclors, low levels of other Aroclors could be masked due to the overlap of patterns. These other Aroclors are flagged with the qualifier X.

The qualifier "Z" is used for AS1254 in presence of higher levels of AR1242 to indicate that the result for AR1254 is biased high due to the overlap of patterns.

Samples which were flagged with the "Z and "X" qualifiers by the laboratory were flagged with the "J" qualifier during the data validation to note that they are estimated values.

Holding Times

The data were validated against the EPA Region II Technical Holding Times: Water and soil samples for PCB analysis must be extracted within 7 days of the date of collection. Extracts must be analyzed within 40 days of the date extraction.

All extractions and analyses were performed within the required holding times.

Surrogate Recoveries

All surrogate recoveries were within the required quality control limits of 30% - 150%

Matrix Spike

Sample G9 (8-10) (Lab. #: 056524-014) was used as the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required limits.

Aroclor 1016 and Aroclor 1260 were added as the spiking compounds at a concentration of 170 ug/kg.

Blank Spike / System Monitoring Spike

All blank spike recoveries were within the required limits.

Initial Calibrations

No problems were found with the initial calibration. All %RSDs were less than 30%.

Continuing Calibrations

No problems were found with any of the continuing calibrations.

Surrogate Retention Times

All surrogate retention times were within the required limits for both surrogates and on both columns.

Method Blanks

No problems were detected with any of the method blanks.

Calibration Blanks

No problems were detected with the calibration blanks associated with this sample delivery group.

Field Blank

None of the target compounds were detected the field blank.

Sample Results

The data were qualified on the basis of the percent difference of the concentrations on the two columns:

% Difference	Qualifier
0 - 25%	None
25 - 70%	"JP"
70 - 100%	"JNP"
> 100%	"RP"
100 - 200% (Interference detected)*	"JPN"

All of the percent differences in this sample delivery group were less than 70%. Percent differences greater than 25% were flagged with the "JP" qualifier. This did not affect the end use of the data since all of the affected samples were either much lower or higher than the 1,000 ug/kg clean up limit.

No other problems were detected with the sample data.

H2M PROCEDURE FOR IDENTIFICATION/QUANTITATION OF AROCLORS

The following is an explanation of our procedure for identification / quantification of PCBs as it applies to the TOB project. It also offers a clarification, why no AR1248 identifications can be found on the integrams, even though certainly many peaks present in the samples are contained in the pattern of AR1248.

The difficulty in analyzing samples for aroclor mixes, is the presence of other interfering compounds, but more so the mutual interference of the aroclors with each other. This is primarily due to the overlap of their patterns. Weathering of the PCBs presents another problem.

The greatest difficulty lies in distinguishing aroclors **AR1232, AR1242, AR1016 and AR1248**. These aroclors are not only overlapping, but are basically "coeluting". **They contain almost the same congeners, and the only distinction is the ratio of the congeners,** e.g. the earliest congeners are very low in the AR1248, some late congeners are practically missing in AR1016, etc. The distinction becomes even more difficult, if the sample also contains AR1254, which is interfering with the late congeners, or if the ratio of the congeners is altered by weathering. Computer identifications are of very little help to determine, which of the four aroclors is present. The identification is based on the evaluation of the analyst, who will use **pattern recognition**, which is basically a **comparison of peak ratios.**

These four "coeluting" aroclors cannot be reported simultaneously. If a mix of any two (or more) of these aroclors were present in a sample, only the largest of the four aroclors could be identified. The lower levels of the other aroclors would be **masked** (that means could not be found), because the

same congeners are present. These congeners of the other masked aroclor would contribute to the quantity reported for the large identified aroclor, and its quantity is included in the quantity of the reported aroclor. Potentially masked aroclors are reported with the qualifier "X" in the sample reports.

The overlap of the four "coeluting" aroclors with AR 1254 is significant, but AR1254 can be identified and quantified in the presence of one of these earlier eluting four aroclors. There is less of an overlap of the four "coeluters" with AR1260, where the patterns are easily distinguishable, and the early portion of the "coeluters" barely interferes with the late portion of the AR1260 pattern and vise versa. If, however, very high concentrations of one of the early aroclors were found, the tail of the pattern would still be high enough to mask low levels of AR1254 and even AR1260. In those cases these aroclors will also be reported with the qualifier "X".

Due to the fact that the four early eluting aroclors share the same congeners, in several cases the same congener is used as a quantification peak in more than one aroclor. The computer could not give more than one identification and one quantification for one peak. The sample file is therefore processed with more than one method to quantify the different aroclors. The most practical way of quantification is to **combine the aroclors that were identified by the analyst in one method**, so that the quantities for these aroclors can be determined from one integram. If the analyst identified AR1242, AR1254, and AR1260, the method that is used for the integration will only report these three aroclors. The computer printout with this method will therefore not identify or quantify AR1232, AR1248, and AR1016, which cannot be analyzed next to AR1242. This does not mean that the analyst has not evaluated the chromatogram for the presence of these other aroclors. This was done as the first step, before a determination was made, which of the four coeluting aroclors was to be quantified.

In the samples of the TOB project, AR1242 was found. In the surface samples and those samples that are close to the surface this aroclor shows **severe weathering**: The early light congeners are depleted, which results in a distortion of the pattern with much higher later eluting congeners. As a result, the pattern resembles the AR1248 pattern very strongly. Without the knowledge of the depth of the samples and the comparison with deeper levels, the aroclor could easily have been taken for AR1248. Only the ratio of some of the early congeners look more like AR1242, even in the surface samples. In order to properly quantify this weathered AR1242, the quantification peaks were specifically selected to provide an average that is representative of the quantity present. (Quantifying the weathered AR1242 as AR1248 would probably have resulted in a reasonable quantification of the PCBs present.)

AR1248 was not "overlooked", but the pattern was identified as weathered AR1242. In all samples containing more than two times the reporting limit of AR1242, AR1248 was reported with the qualifier "X" as potentially masked at

a lower level. Any AR1248 that could be present would be included in the concentration reported for AR1242.