GEI Consultants

Geotechnical
Environmental
Water Resources
Ecological

Site Management Plan

Saratoga Springs (Lake Avenue) Non-Owned Former Manufactured Gas Plant Site

Saratoga Springs, New York
AOC Index No. A2-0552-0606
Site No. V 00475

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Abbreviations and Acronyms

AWQS	Ambient Groundwater Quality Standards
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CAMP	Community Air Monitoring Plan
CFR	Code of Federal Regulations
DER	Department of Environmental Remediation
EWP	Excavation Work Plan
FER	Final Engineer's Report
GEI	GEI Consultants, Inc.
HAA	Hartgen Archeological Associates, Inc.
HASP	Health and Safety Plan
MGP	Manufactured Gas Plant
NAPL	Non-Aqueous Phase Liquid
NYCRR	New York Code of Rules and Regulations
NYSASP	New York State Analytical Service Protocol
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
PAHs	Polycyclic Aromatic Hydrocarbons
RA	Remedial Action
RAOs	Remedial Action Objectives
RI	Remedial Investigation
ROD	Record of Decision
SCGs	Standards, Criteria and Guidance
SCOs	Soil Cleanup Objective
SMP	Site Management Plan
SVOCs	Semivolatile Organic Compounds
UR-4	Urban Residential 4 Zoning
VOCs	Volatile Organic Compounds
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program

MEASUREMENTS

mg/kg	milligrams per kilograms
ppm or mg/kg	parts per million
$\mu g/m^3$	micrograms per cubic meter

1. Introduction

1.1 Purpose

This Site Management Plan (SMP) is an element of the remedial program at the Saratoga Springs (Lake Avenue) Non-Owned Former Manufactured Gas Plant (MGP) site (Site No. V00475 [Site]). The remedial program was completed by National Grid under the New York State Voluntary Cleanup Program (VCP). After completion of the Remedial Action, some contamination was left in the subsurface at the Site, which is hereafter referred to as "remaining contamination." Because remaining contamination is present, institutional controls are required to fulfill the remedial objectives of the Site.

In accordance with the Voluntary Clean-up Agreement (VCA), AOC Index No. A2-0552-0606, between National Grid and the New York State Department of Environmental Conservation (NYSDEC), National Grid performed investigations and a subsequent remediation at the Site. The former MGP was operated by a predecessor company of National Grid for approximately 23 years between 1852 and 1875. The Site is currently owned by the City of Saratoga Springs (herein referred to as the "owner") and is occupied by the Central Fire Station.

The SMP was prepared by GEI Consultants, Inc. (GEI) on behalf of National Grid in accordance with the factors set forth in Title 6 of the New York Code of Rules and Regulations Part 375 (6 New York Code of Rules and Regulations [NYCRR] Part 375), NYSDEC *DER-10* [Department of Environmental Remediation] *Technical Guidance for Site Investigation and Remediation* and the VCA between National Grid and the NYSDEC for the Site.

1.2 SMP Summary

This SMP provides a detailed description of all procedures required to manage remaining contamination at the Site, including: (1) implementation and management of all Institutional Controls (ICs) and (2) performance of periodic inspections, certification of results, and submittal of Periodic Review Reports.

National Grid will seek a Deed Restriction with the owner of the property as part of the Institutional Controls incorporated into the Site remedy to control exposure to remaining contamination during the use of the Site to ensure protection of public health and environment. The Deed Restriction will comply with this SMP and all Institutional Controls placed on the Site. The Deed Restriction is included in **Appendix A**.

To address these needs, this SMP includes two plans: (1) an Institutional Control Plan for implementation and management of institutional controls and (2) a Monitoring Plan for implementation of site monitoring.

This SMP also includes a description of Periodic Review Reports for the periodic submittal of data, information, recommendations, and certifications to NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Deed Restriction. Failure to properly implement the SMP is a violation of the Deed Restriction.
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6 NYCRR Part 375 and, thereby, subject to applicable penalties.

This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Deed Restriction and the grantor's successors and assigns. Revisions to this plan will be proposed in writing to the NYSDEC's project manager. In accordance with the Deed Restriction, the NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

1.3 Site Description and History

The Site is located at 60 Lake Avenue (the intersection of Lake Avenue and Hodgeman Street) in Saratoga Springs, Saratoga County, New York. It is near the city center, as shown in the regional United States Geological Survey topographic map (**Figure 1**). The current site plan and configuration is depicted in Figure 2.

The Site is approximately one acre in size. The property is owned by the City of Saratoga Springs and is used as a full-time fire department facility. The City has designated the facility as the Central Fire Station. The City of Saratoga Springs Tax Assessor designates the property as Section 165.60, Block 2, Lot 3. It is zoned as Urban Residential 4 (UR-4). UR-4 zoning allows for residential use and development. The Site abuts land that is zoned for light commercial and industrial use. The Site is bounded by Lake Avenue to the north, Hodgeman Street to the east, Short Alley to the south, and retailers to the west. Commercial properties are present to the north and west. The metes and bounds of the Site are included in **Appendix B**.

The closest retailer is to the west at 44 Lake Avenue. Residential use occupies the land to the south and east. The current site use is similar to light industrial/commercial use, with heavy equipment (fire trucks) use and maintenance.

Grassed areas are present on the east and west sides of the fire station. The south side is a paved access way to the back entrance of the fire station and a parking area for fire

department personnel. The fire truck garage bays open onto Lake Avenue and the rear parking area. Concrete sidewalks are present on the Site along Lake Avenue and Hodgeman Street.

A limestone retaining wall marks the boundary of the Site on the south and west property lines. The Site is raised with relation to Short Alley and the commercial property to the west. The south side has a historic 6-foot-high brick wall running from Hodgeman Street to about halfway down the property line. Continuing west of the brick wall is a new combination brick wall/brick column/wrought iron fence constructed as part of the remedial action extending to the southwest corner of the Site.

Construction of the first gas works on Lake Avenue began in 1852. Coal gas began flowing to Saratoga Village in 1853. By 1875, a second gas plant was operating on Excelsior Avenue in Saratoga and the Lake Avenue MGP was deemed obsolete. Gas making ceased at the property and the gas works building was converted to a school. The school operated for approximately 8 years between 1875 and 1883. In July 1883, the school was closed and the gas works building was demolished. A new high school was constructed to the east and south of the old gas works building and operated until October 27, 1923, when it was destroyed by fire. The Site was abandoned for six years following the fire. In 1929, a firehouse was built over the foundation of the old high school. The firehouse still stands and is operational today.

1.4 Summary of Previous Investigations

A series of investigations were conducted at the Site between 1999 and 2008. This section provides a summary of those investigations and the findings. A comprehensive summary is presented in the July 2009 Remedial Investigation Report (GEI, 2009).

- In February 1999, Passaretti Geological Environmental Consultants supervised removal of two underground storage tanks containing fuel oil and gasoline from the Site. Methyl tertiary butyl ether was the only detected compound in the soil samples and was found at trace concentrations.
- In November 2003, GEI performed a Site Characterization including test pits and soil borings for National Grid.
- In April 2004, EA Science and Technology analyzed soil samples from underneath the floor slab of the firehouse, which resulted in no detections of volatile organic compounds (VOCs) or semivolatile organic compounds (SVOCs).
- NYSDEC requested additional Site Characterization from National Grid in September of 2004, followed by GEI's Work Plan in November of 2004. The Work Plan included Geoprobe® borings and test pits, which after implementation, confirmed both the location of the former gas holder foundation and the presence of non-aqueous phase liquid (NAPL).

- In July 2005, C.T. Male Associates, PC, installed monitoring wells in the adjacent 44 Lake Avenue property. Samples were collected and no organic compounds were detected. Groundwater flow direction at the Site is consistently from the southeast to the northwest and the wells on 44 Lake Avenue were determined to be downgradient from the Site.
- In November 2005, GEI supervised another six Geoprobe® borings and test pits. Three borings were converted to monitoring wells. This investigation included soil and groundwater sampling; no SVOCs were detected in the groundwater samples, but the subsurface impacts were defined as MGP-related.
- GEI submitted the final Site Characterization Report with recommendations for a remedial investigation (RI) and a plan for remedial action in March of 2007.

1.5 Summary of RI

In December 2008, GEI conducted a RI at the Site, in accordance with NYSDEC-approved RI work plan (GEI, 2008), to determine the nature, extent, and migration potential of contaminants present on the Site. The goal of the investigation was to provide the necessary data to assess the potential risk posed by contaminants to human health and the environment, and to determine appropriate risk management actions. The results of the investigations are summarized below.

1.5.1 Site Survey, Retaining Wall Assessment, and Archeological Assessment

A private utility survey was conducted at the Site to determine the presence and location of any subsurface utilities located at the Site. Several stormwater and roof drainage structures were identified, including one located within the limits of the former gas holder foundation.

A photographic and visual inspection and assessment of the limestone and brick retaining wall was conducted. Large portions of the brick wall along the western site boundary were deteriorated and had been removed or collapsed onto the adjacent parking area. The western end of the brick wall along the southern site boundary was supported via tiebacks anchored within the limits of the former gas holder foundation. The limestone retaining wall remains intact.

A Phase IA Literature Review and Archeological Sensitivity Assessment was conducted at the Site by Hartgen Archeological Associates, Inc. (HAA) of Rensselaer, New York, which determined that the stone and brick retaining wall within the southern site limits is not an archeological feature or a unique cultural resource. The former gas holder foundation is an archeological feature. Recommendations were made that future remediation activities be monitored by archeologists to document the former gas holder foundation remains and record other specific information regarding the Site. The full report for HAA's assessment is presented in Appendix H of the March 2009 Remedial Investigation Report (GEI, 2009).

1.5.2 Nature, Extent, and Migration Potential of Contamination

The MGP-related contaminants encountered in subsurface soils were benzene, toluene, ethylbenzene and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs). These contaminants appeared to be localized to the vicinity of the former gas holder foundation and the former gas works building, as shown in the Site Conceptual Model included as part of the RAWP.

Specifically, MGP-related source materials were encountered within the former gas holder foundation. MGP-impacted materials were encountered immediately southwest of the former gas holder foundation and in the vicinity of the former gas works building. Southwest of the former gas holder foundation, MGP-impacted materials were encountered 10-15 feet below ground surface. Near the former gas works building, MGP-impacted materials were encountered between 5-13 feet below ground surface. Some of the MGP-impacted material had MGP-contaminants with PAHs above Part 375 Soil Cleanup Objectives (SCOs) Commercial Use and showed signs of visual and olfactory impacts (staining and/or odors). Analytical results for surface soils is included in **Table 1** and **Figure 3**. The analytical results for subsurface soils are included in **Table 2**, **Figure 4** and **Figure 5**. Geologic cross sections are included in **Figure 6** and **Figure 7**.

Benzene was detected in one of the on-site wells above New York State Ambient Water Quality Standards (AWQS). But, due to the relative lack of organic impacts at all wells, including the downgradient off-site wells, it appears that MGP constituents dissolved in groundwater are not dramatically influencing the subsurface conditions. Additionally, off-site migration of dissolved chemical constituents in groundwater does not appear to be occurring. Analytical results for groundwater are included in **Table 3** and **Figure 8**.

There were no MGP-related compounds detected in soil vapor samples above the New York State Department of Health (NYSDOH) background indoor air Upper Fence values (October 2006). Four compounds that are not MGP-related were detected slightly above the background values. These compounds included 2,2,4-trimethylpentane, tetrachloroethene, trichloroethene, and chloroform, which emanate from many common sources such as gasoline and automotive exhaust, dry cleaning agents, degreasing agents, household cleaning fluids or as by-products of household cleaning mixtures. There were no exceedances of the NYSDOH Upper Fence for outdoor air in the ambient air sample. Analytical results for soil vapor and ambient air are included in **Table 4** and **Figure 9**.

1.6 Summary of Remedial Action

Beginning in the fall of 2009, a Remedial Action (RA) was conducted at the Site in accordance with NYSDEC-approved RA work plan (GEI, 2009), to remove MGP-related source material where present, to the extent practicable, at the Site. MGP-related source material is defined as materials containing or saturated with NAPL or product related to the former MGP operations. MGP-impacted material is defined as materials which do not

contain NAPL or product, but exhibit MGP-related sheens, staining, odors, or analytical sampling results which do not meet the Unrestricted Use SCOs for soils.

As part of the RA, two contaminant-specific Standard, Criteria, and Guidance (SCGs) values, were applied to the Site, 6 NYCRR Part 375 and a site-specific SCO of removing all MGP-related source material. Specifically, the Commercial SCOs listed in Table 375-6.8(b) of 6 NYCRR Part 375, included in **Table 7** of this report, is applied to surface soils and shallow surface soils at the Site and the removal of all MGP-related source materials is applied to all other subsurface soils at the Site. Shallow subsurface soils are defined as those within 5 feet of grade.

The Remedial Action Objectives (RAOs) for the Site were to:

- Prevent, to the extent practicable, ingestion or direct contact with MGP-related material.
- Remove, to the extent practicable, MGP-related source material which may impact groundwater.
- Prevent, to the extent practicable, ingestion or contact with groundwater with MGP-related contamination levels exceeding class GA standards.

The RA was conducted by National Grid, under guidance by NYSDEC. LAND Remediation (Contractor) provided general contracting services. GEI provided the RA design, construction quality assurance oversight, perimeter air monitoring, and general consulting services. The results of the RA were reported in the Final Engineer's Report (FER) (GEI, 2010) and are summarized below.

1.6.1 Remedial Activities

As described in the RA Work Plan, the specific remedial objective for the Site was the excavation and off-site disposal of MGP-related source material. MGP-related source material at the Site is limited to the contents of the 32,000-cubic-foot former gas holder foundation. The holder excavation was approximately 15.5 feet deep and was bound by the holder walls and floor. Additionally, 1 to 2 feet of soil was excavated from the firehouse parking area to remove unsuitable sub-base soils for the replacement asphalt surface.

Approximately 2,340 tons of soil (including MGP-impacted source material from within the former gas holder foundation) was excavated and properly disposed of off-site. In addition, approximately 62,250 gallons of water (including MGP-impacted water from within the former gas holder foundation) was removed and properly disposed of off-site.

The former gas holder foundation was backfilled with two types of fill. First, a 3-foot bottom layer of flowable fill was poured to counter the hydrostatic uplift pressures from groundwater acting on the holder floor. A granular (bank run) fill was placed above the flowable fill and

compacted in 12-inch lifts to above the holder walls. Finally, the parking area, disturbed by the RA, was backfilled with a gravel (New York State Department of Transportation [NYSDOT] Type 4) fill used as a sub-base.

A 6-inch asphalt cover was built not only as a parking area for the firehouse, but also as a barrier to prevent water infiltration to the former gas holder foundation.

The extent of the excavation, elevation of backfills, and final site grades are shown in **Figure 10** and **Figure 11**.

1.6.2 Documentation Sample

After the excavation and backfilling was complete, documentation samples were collected from the beneath the former gas holder foundation to assess the magnitude, if any, of the remaining impacts. The documentation sample was collected near the center of the holder floor.

The results of the documentation sample were not indicative of MGP-related impacted material. The analytical results of the documentation sample are included in **Table 5**.

1.6.3 Supplemental Groundwater Investigation

A supplemental groundwater investigation was performed after the Contractor demobilized from the Site. The purpose of the investigation was to confirm that groundwater conditions had not significantly changed as a result of the RA. The results of the supplemental groundwater investigation were reported in a letter to the NYSDEC, from National Grid, dated April 9, 2010.

Based on the groundwater analytical results, the RA did not impact local groundwater quality, and off-site migration of dissolved chemical constituents in groundwater did not appear to be occurring.

1.6.4 Well Decommissioning

After reviewing the results of the supplemental groundwater investigation, the NYSDEC approved the decommissioning of three groundwater monitoring wells (MW-01-03, MW-02-03, and MW-03-03). The wells were abandoned in accordance with NYSDEC's *Groundwater Monitoring Well Decommissioning Policy* (2009). The well decommissioning activities were reported to the NYSDEC in a letter dated October 22, 2010.

Two wells (MW-02-03 and MW-03-03) were abandoned performing the grout-in-place then pull-casing technique. The flush-mount road boxes and adjacent concrete were removed and the area around the well was seeded. One well (MW-01-03), located within the newly paved

parking lot, was abandoned performing the grout-in-place technique. The flush-mount road box was left in-place to prevent disturbing the asphalt.

One other well (SB-07-08/OR-01-08) was installed as part of the RI, and was removed during the excavation activities.

1.7 Remaining Contamination

Pursuant to the RA Work Plan and the Site's two contaminant-specific SCGs, the MGP-related source material was removed from the Site to help meet the RAOs. The RA did not, however, remove all MGP-impacted materials from the Site.

MGP-impacted material was left in-place at the Site near the former gas holder foundation and near the former gas works building. According to the borings and analytical sampling guided by Unrestricted SCOs, the MGP-impacted material with exceedances is limited to approximately 7 feet below ground surface outside the former gas holder foundation and between 5 and 15 feet below ground surface at the former gas works building.

The pre-RA Site Conceptual Model is included in **Figure 12.** A summary of soil physical and chemical impact is included in **Table 6**. A revised Conceptual Site Model presenting the limits of MGP-impacted material post-RA is included in **Figure 13**.

2. Institutional Control Plan

Based on the results of the RI and RA, soils exist beneath the Site post-RA above the unrestricted use SCOs. In accordance with DER-10, Institutional Controls shall be required to protect human health and the environment. This Institutional Control Plan describes the procedures for the implementation and management of all Institutional Controls at the Site. The Institutional Control Plan is one component of the SMP and is subject to revision by NYSDEC.

2.1 Institutional Controls

A series of Institutional Controls is required to:

- Prevent potential exposure to residual contamination in the soil located outside the former gas holder foundation and in the vicinity of the former gas work building.
- Limit the use and development of the site to commercial uses only.

A Deed Restriction has been executed for the Site requiring adherence to the Institutional Controls. Compliance with the Deed Restriction and this SMP is required by the owner and the owner's successors and assigns.

The Institutional Controls in the Deed Restriction may not be discontinued without an amendment to or extinguishment of the Deed Restriction.

The Institutional Controls include the following terms:

- The property may only be used for commercial use provided that the long-term institutional controls included in this SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted use without additional remediation and amendment of the Deed Restriction, as approved by the NYSDEC.
- A Deed Restriction is placed on the property dictating future use and development constraints for the Site.
- Workers are notified if utility or other excavation work is planned on the Site for any excavations outside the MGP footprint boundary.
- Notification is required to the NYSDEC of a potential change in use or prior to any action that could jeopardize the integrity of the remedy.
- Following this SMP a health and safety plan will be developed and applied where there is the potential for any MGP-impacted residual soil to be excavated or removed from the Site.

- Annual inspection and periodic certifications to confirm appropriate use of the Site, and to ensure that institutional controls included in this remedy are in place and remain effective to control the identified potential exposures.
- All future activities on the property that will disturb remaining contamination must be conducted in accordance with this SMP.
- A restriction will be placed on the use of groundwater as a source of drinking water or other supply without the necessary water quality treatment as determined by the NYSDOH or County Health Department.
- Vegetable gardens and farming on the property are prohibited.
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2.1.1 Excavation Work Plan

The Site was remediated for commercial use. Any future intrusive work that will penetrate the soil cover, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover, will be performed in compliance with the Excavation Work Plan (EWP) that is included in **Appendix C**.

Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the Site. A sample HASP is included in **Appendix D** that is in current compliance with DER-10, and 29 Code of Federal Regulations (CFR) 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. A sample CAMP is included in **Appendix E** that is in compliance with DER-10 and all other applicable Federal, State and local regulations. Based on future changes to State and federal health and safety requirements, and specific methods employed by future contractors, the HASP and CAMP will be updated and re-submitted for NYSDEC approval.

Any intrusive construction work will be performed in compliance with the EWP, HASP and CAMP, and will be included in the Periodic Review Report (See **Section 5**).

The site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of soils and

water, control of runoff from open excavations into remaining contamination, and for structures that may be affected by excavations.

2.2 Inspections

Inspections of all remedial components installed at the Site will be conducted at the frequency specified in the SMP Monitoring Plan schedule. A comprehensive site-wide inspection will be conducted annually, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Compliance with requirements of this SMP and the Deed Restriction.
- Achievement of remedial performance criteria.
- That site records are complete and up to date.
- Changes, or needed changes, to the remedial or monitoring program.

Inspections will be conducted in accordance with the procedures set forth in the Monitoring Plan of this SMP (**Section 3**). The reporting requirements are outlined in the Periodic Review Reporting section of this plan (**Section 5**).

In an emergency, such as a natural disaster, an inspection of the Site will be conducted within five days of the event to verify the effectiveness of the Institutional Controls implemented at the Site by a qualified environmental professional, as determined by NYSDEC.

2.3 Notifications

Notifications will be submitted by the property owner to the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the VCA, 6NYCRR Part 375, and/or Environmental Conservation Law.
- 7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan.
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake, with written confirmation within seven days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the VCA, and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing.

2.4 Contingency Plan

Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions. An emergency response plan and contingency plan are included in **Appendix D** as part of the HASP. Directions and a map of the route to the closest hospital are included in **Figure 14**.

2.4.1 Emergency Telephone Numbers

In the event of any environmentally-related situation or unplanned occurrence requiring assistance, the Owner or Owner's representative(s) should contact the appropriate party from the contact list included in **Table 8**. For emergencies, appropriate emergency response personnel should be contacted. Prompt contact should also be made to a qualified environmental professional. These emergency contact lists must be maintained in an easily accessible location at the site. As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency.

3. Site Monitoring Plan

This Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the asphalt and soil cover, and all affected site media identified below. This Monitoring Plan may only be revised with the approval of NYSDEC.

3.1 Site Inspection

Site-wide inspections will be performed on an annual basis. Site-wide inspections will also be performed after all severe weather conditions that may affect the Institutional Controls. During these inspections, an inspection form will be completed. The form will compile sufficient information to assess the following:

- Compliance with all Institutional Controls, including site usage.
- An evaluation of the condition and continued effectiveness of Institutional Controls.
- General site conditions at the time of the inspection.
- Confirm that site records are up to date.

An inspection form template is included in **Appendix F**.

3.2 Monitoring Reporting Requirements

Forms and any other information generated during inspections will be kept on file on-site. All forms, and other relevant reporting formats used during the inspection events, will be (1) subject to approval by NYSDEC and (2) submitted at the time of the Periodic Review Report.

4. Operation and Maintenance Plan

The site remedy does not rely on any mechanical systems, therefore, the operation and maintenance of such components is not included in this SMP.

5. Inspections

All inspections will be conducted at the frequency specified in the schedules provided in **Section 3,** Site Monitoring Plan.

All inspections will be recorded. These forms are subject to NYSDEC revision. The forms and other records, generated for the Site during the reporting period will be provided in electronic format in the Periodic Review Report.

The results of the inspection will be evaluated as part of the Institutional Controls certification to confirm that:

- The Institutional Controls are in place, are performing properly, and remain effective.
- The Monitoring Plan is being implemented.
- The site remedy continues to be protective of public health and the environment and is performing as designed in the RA work plan and FER.

5.1 Certification of Institutional Controls

After the last inspection of the reporting period, a qualified environmental professional will prepare the following certification:

For each institutional control identified for the site, I certify that all of the following statements are true:

- *The institutional control employed at this site is unchanged from the date the control was put in place, or last approved by the NYSDEC.*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment.*
- *Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control.*
- *Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of this control.*
- *If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document.*
- *Use of the Site is compliant with the Deed Restriction.*
- *The information presented in this report is accurate and complete.*
- *I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, [name], of [business*

address], am certifying as [Owner or Owner's Designated Site Representative] (and if the site consists of multiple properties): [and I have been authorized and designated by all site owners to sign this certification] for the site.

The signed certification will be included in the Periodic Review Report described below.

5.2 Periodic Review Report

A Periodic Review Report will be submitted to the NYSDEC every year, beginning eighteen months after the Certificate of Completion is issued. In the event that the Site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the Site described in **Appendix B**. The report will be prepared in accordance with NYSDEC DER-10 and submitted within 45 days of the end of each certification period. Any media sampling results will also be incorporated into the Periodic Review Report.

The report will include:

- Identification, assessment and certification of all Institutional Controls required by the remedy for the Site.
- Results of the required annual site inspections and severe condition inspections.
- All applicable inspection forms and other records generated for the Site during the reporting period in electronic format.
- A site evaluation, which includes the following:

    - The compliance of the remedy with the requirements of the site-specific RA Work Plan and NYSDEC Record of Decision (ROD).
    - Any new conclusions or observations regarding site contamination based on inspections for the media being monitored.
    - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan.
    - The overall performance and effectiveness of the remedy.

The Periodic Review Report will be submitted, in hard-copy format, to the NYSDEC Central Office and in which the site is located, and in electronic format to NYSDEC Central Office, and the NYSDOH Bureau of Environmental Exposure Investigation.

5.3 Corrective Measure Plan

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an Institutional Controls, a Corrective Measures Plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an

emergency condition exists, no work will be performed pursuant to the Corrective Measures Plan until it is approved by the NYSDEC.

References

Foster Wheeler Environmental Corporation, 2003. *Site-Specific Work Plan for Site Characterization Saratoga Springs (Lake Ave.) Non-Owned Former MGP Site, Saratoga Springs, New York, AOC Index No. A2-0552-0606, Site No. V 00475*. July, 2003 Prepared for: Niagara Mohawk, a National Grid Company.

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GEI Consultants, Inc., 2009. *Remedial Investigation Work Plan, Lake Avenue Non-Owned Former MGP Site, Saratoga Springs, New York, Site No. V 00475,* December 2008.

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NYSDEC, 2010, Remedial *Guidance, DER-10 Technical Guidance for Site Investigation and Remediation,* http://www.dec.ny.gov/docs/remediation_hudson_pdf/der10.pdf.

NYSDEC (New York State Department of Environmental Conservation). 2009. *CP-43 Groundwater Monitoring Well Decommissioning*.

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NYSDOH (New York State Department of Health). October 2006. *Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003.* http://www.health.ny.gov/environmental/indoors/air/fuel oil.htm

Tables

Validated

Table 1
Surface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SS-01-08 12/17/2008	SS-02-08 12/17/2008	Duplicate of: SS-02-08 12/17/2008	SS-03-08 12/17/2008
BTEX (mg/kg)						
Benzene	0.06	44	0.0078 UJ	0.0077 U	0.0079 U	0.006 U
Toluene	0.7	500	0.0078 UJ	0.0077 U	0.0079 U	0.006 UJ
Ethylbenzene	1	390	0.0078 UJ	0.0077 U	0.0079 U	0.006 UJ
Xylene, Total	0.26	500	0.0078 UJ	0.0077 U	0.0079 U	0.006 UJ
Total BTEX	NE	NE	ND	ND	ND	ND
Non-carcinogenic PAHs (mg/kg)						
Acenaphthene	20	500	0.41 U	0.41 U	0.43 U	0.32 U
Acenaphthylene	100	500	0.41 U	0.41 U	0.43 U	0.32 U
Anthracene	100	500	0.092 J	0.41	0.43 U	0.32 U
Benzo[g,h,i]perylene	100	500	0.26 J	1.3	0.57 J	0.25 J
Fluoranthene	100	500	0.81	3.9 J	0.66 J	0.34
Fluorene	30	500	0.41 U	0.41 U	0.43 U	0.32 U
Methylnaphthalene,2-	NE	NE	0.41 U	0.41 U	0.43 U	0.32 U
Naphthalene	12	500	0.41 U	0.41 U	0.43 U	0.32 U
Phenanthrene	100	500	0.24 J	0.76	0.15 J	0.14 J
Pyrene	100	500	0.36 J	3 J	0.49 J	0.27 J
Total Noncarcinogenic PAHs	NE	NE	1.762	9.37	1.87	1
Carcinogenic PAHs (mg/kg)						
Benz[a]anthracene	1	5.6	0.41	3.2 J	0.65 J	0.18 J
Benzo[a]pyrene	1	1	0.82	3 J	1.2 J	0.2 J
Benzo[b]fluoranthene	1	5.6	0.41 U	3.4 J	1.7 J	0.26 J
Benzo[k]fluoranthene	0.8	56	0.41 U	1.3	0.54 J	0.099 J
Chrysene	1	56	0.93	3.3 J	1 J	0.22 J
Dibenz[a,h]anthracene	0.33	0.56	0.084 J	0.51	0.17 J	0.32 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.58	1.9 J	0.97 J	0.38
Total Carcinogenic PAHs	NE	NE	2.824	16.61	6.23	1.339
Total PAHs (mg/kg)						
Total PAHs	NE	NE	4.586	25.98	8.1	2.339

Table 1
Surface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Notes:

mg/kg - milligrams/kilogram or parts per million (ppm)

BTEX - benzene, toluene, ethylbenzene, and xylenes

PAHs - polycyclic aromatic hydrocarbons

Total BTEX and Total PAHs are calculated using detects only.

6 NYCRR - New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York

6 NYCRR 375 SCO UNRESTRICTED USE - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Unrestricted Use Soil Cleanup Objectives

6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Restricted Use Commercial Soil Cleanup Objectives

NE - not established

ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Yellow shading indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED and 6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL

Gray shading indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED USE

Validation Qualifiers:

J - estimated value

U - indicates not detected at or above the reporting limit shown.

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
BTEX (mg/kg)									
Benzene	0.06	44	0.01 U	7.1	NA	16	0.011 U	NA	0.016
Toluene	0.7	500	0.002 J	24	NA	26	0.002 J	NA	0.015
Ethylbenzene	1	390	0.01 U	2.4	NA	1.7	0.011 U	NA	0.012 U
Xylene, Total	0.26	500	0.01 U	43	NA	30	0.011 U	NA	0.014
Total BTEX	NE	NE	0.002	76.5	NA	73.7	0.002	NA	0.045
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.38 U	33 J	NA	420	3.6 U	NA	0.011 J
Acenaphthylene	100	500	0.038 J	140	NA	1600 J	3.6 U	NA	0.078 J
Anthracene	100	500	0.031 J	130	NA	1500 J	3.6 U	NA	0.1 J
Benzo[g,h,i]perylene	100	500	0.12 J	19 J	NA	96	3.6 U	NA	0.025 J
Fluoranthene	100	500	0.35 J	180	NA	2100 J	3.6 U	NA	0.17 J
Fluorene	30	500	0.015 J	180	NA	2200 J	3.6 U	NA	0.12 J
Methylnaphthalene,2-	NE	NE	0.091 J	290	NA	4100	3.6 U	NA	0.18 J

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
Naphthalene	12	500	0.32 J	650	NA	8600	3.6 U	NA	0.43
Phenanthrene	100	500	0.12 J	290	NA	4200	3.6 U	NA	0.28 J
Pyrene	100	500	0.27 J	120	NA	1500 J	3.6 U	NA	0.13 J
Total Noncarcinogenic PAHs	NE	NE	1.355	2032	NA	26316	ND	NA	1.524
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.24 J	110	NA	1100 J	3.6 U	NA	0.099 J
Benzo[a]pyrene	1	1	0.21 J	64 J	NA	570	3.6 U	NA	0.055 J
Benzo[b]fluoranthene	1	5.6	0.18 J	68 J	NA	480 J	3.6 U	NA	0.049 J
Benzo[k]fluoranthene	0.8	56	0.15 J	33 J	NA	460 J	3.6 U	NA	0.037 J
Chrysene	1	56	0.2 J	86	NA	890 J	3.6 U	NA	0.072 J
Dibenz[a,h]anthracene	0.33	0.56	0.07 J	18 J	NA	110	3.6 U	NA	0.011 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.12 J	22 J	NA	130	3.6 U	NA	0.024 J
Total Carcinogenic PAHs	NE	NE	1.17	401	NA	3740	ND	NA	0.347
Total PAHs (mg/kg)									
Total PAHs	NE	NE	2.525	2433	NA	30056	ND	NA	1.871
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	4.1 U	4.5 U	NA	4.6 UJ	4.3 U	NA	4.5 U
Other (%)									
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	1.4	NA	NA	0.074	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
BTEX (mg/kg)									
Benzene	0.06	44	0.002 J	0.013 U	0.013 U	NA	NA	0.012 U	99
Toluene	0.7	500	0.002 J	0.013 U	0.013 U	NA	NA	0.012 U	240
Ethylbenzene	1	390	0.013 U	0.013 U	0.013 U	NA	NA	0.012 U	31
Xylene, Total	0.26	500	0.013 U	0.013 U	0.013 U	NA	NA	0.012 U	400
Total BTEX	NE	NE	0.004	ND	ND	NA	NA	ND	770
Other VOCs (mg/kg)									
Acetone	0.05	500	0.029 UJ	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	0.013 U	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	0.013 U	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	0.013 U	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	0.013 U	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	0.013 U	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	0.013 U	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	0.013 U	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	0.013 U	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	0.013 U	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	0.013 U	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	0.013 UJ	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
Dichloropropane,1,2-	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	0.013 U	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	0.008 J	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	0.013 U	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	0.013 U	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	0.013 U	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	0.013 U	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	0.013 U	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.044 J	0.43 U	0.42 U	NA	NA	0.42 U	38 J
Acenaphthylene	100	500	0.28 J	0.43 U	0.42 U	NA	NA	0.42 U	240
Anthracene	100	500	0.037 J	0.43 U	0.42 U	NA	NA	0.42 U	170 J
Benzo[g,h,i]perylene	100	500	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	32 J
Fluoranthene	100	500	0.036 J	0.018 J	0.42 U	NA	NA	0.42 U	240 J
Fluorene	30	500	0.13 J	0.43 U	0.42 U	NA	NA	0.42 U	260
Methylnaphthalene,2-	NE	NE	1.8	0.43 U	0.42 U	NA	NA	0.42 U	520 J

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
Naphthalene	12	500	5.8	0.43 U	0.42 U	NA	NA	0.42 U	1200
Phenanthrene	100	500	0.11 J	0.014 J	0.42 U	NA	NA	0.42 U	560
Pyrene	100	500	0.022 J	0.012 J	0.42 U	NA	NA	0.42 U	170 J
Total Noncarcinogenic PAHs	NE	NE	8.259	0.044	ND	NA	NA	ND	3430
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.019 J	0.43 U	0.42 U	NA	NA	0.42 U	130 J
Benzo[a]pyrene	1	1	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	88 J
Benzo[b]fluoranthene	1	5.6	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	62 J
Benzo[k]fluoranthene	0.8	56	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	71 J
Chrysene	1	56	0.013 J	0.43 U	0.42 U	NA	NA	0.42 U	110 J
Dibenz[a,h]anthracene	0.33	0.56	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	190 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	190 U
Total Carcinogenic PAHs	NE	NE	0.032	ND	ND	NA	NA	ND	461
Total PAHs (mg/kg)									
Total PAHs	NE	NE	8.291	0.044	ND	NA	NA	ND	3891
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	0.13 J	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
Chloroaniline,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	0.14 J	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	0.4	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	0.98 UJ	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	0.98 UJ	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	0.4 U	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	0.94	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	0.53	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	0.98 UJ	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	0.98 U	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	0.98 U	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
Nitrophenol,2-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	0.98 UJ	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	0.98 UJ	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	1.1 J	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	0.0098 U	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	0.0098 U	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	0.049 U	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	0.0098 U	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	0.049 U	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	0.02 U	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	0.02 U	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	0.02 U	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	0.0098 U	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	0.02 U	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	0.02 U	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	0.02 U	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
Endosulfan Sulfate	2.4	200	0.02 U	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	0.02 U	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	0.039 U	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	0.02 U	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	0.0098 U	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	0.0098 U	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	0.0098 U	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	0.098 U	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	0.2 U	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	3420	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	0.59 J	NA	NA	NA	NA	NA	NA
Arsenic	13	16	1.2	NA	NA	NA	NA	NA	NA
Barium	350	400	22.5 J	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	0.22 UJ	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	0.02 U	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	20100 J	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	4.3 J	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	3.5 J	NA	NA	NA	NA	NA	NA
Copper	50	270	7.0	NA	NA	NA	NA	NA	NA
Iron	NE	NE	8130 J	NA	NA	NA	NA	NA	NA
Lead	63	1000	2.2	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	6550 J	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	204 J	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	0.004 UJ	NA	NA	NA	NA	NA	NA
Nickel	30	310	5.8 J	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
Potassium	NE	NE	655	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	0.51 UJ	NA	NA	NA	NA	NA	NA
Silver	2	1500	0.07 U	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	107 U	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	0.50 U	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	9.6 J	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	24.7	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	4.8 U	4.9 UJ	5.2 U	NA	4.0 UJ	4.9 U	NA
Other (%)									
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA	16.2
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA	83.8
Total Organic Carbon	NE	NE	NA	NA	NA	0.050 U	0.13	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
BTEX (mg/kg)									
Benzene	0.06	44	0.0057 U	0.0063 U	1.2 U	0.0066 U	0.00067 J	30 U	3.8 J
Toluene	0.7	500	0.00061 J	0.0063 U	1.2 U	0.00093 J	0.00097 J	9.4 J	8.3
Ethylbenzene	1	390	0.0057 U	0.0063 U	1.2 U	0.0066 U	0.0065 U	36	4.3 J
Xylene, Total	0.26	500	0.0057 U	0.0063 U	1.9	0.0066 U	0.0065 U	760	27
Total BTEX	NE	NE	0.00061	ND	1.9	0.00093	0.00164	805.4	43.4
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.37 U	0.4 UJ	44 J	0.42 U	0.41 U	150 J	3.7 J
Acenaphthylene	100	500	0.37 U	0.071 J	140 J	0.059 J	0.41 U	610	11
Anthracene	100	500	0.37 U	0.4 U	130 J	0.42 U	0.41 U	480	34
Benzo[g,h,i]perylene	100	500	0.37 U	0.4 U	52 J	0.42 U	0.41 U	87 J	19 J
Fluoranthene	100	500	0.37 U	0.4 U	380 J	0.072 J	0.41 U	670	76
Fluorene	30	500	0.37 U	0.4 U	150 J	0.42 U	0.41 U	670	17
Methylnaphthalene,2-	NE	NE	0.37 U	0.4 U	750 J	0.42 U	0.41 U	2300	5.8 J

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Naphthalene	12	500	0.37 U	0.4 U	400	0.42 U	0.41 U	4300	9.2
Phenanthrene	100	500	0.37 U	0.4 U	550	0.071 J	0.41 U	1500	66
Pyrene	100	500	0.37 U	0.4 U	220	0.42 U	0.41 U	640 J	64 J
Total Noncarcinogenic PAHs	NE	NE	ND	0.071	2816	0.202	ND	11407	305.7
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.37 U	0.4 U	170 J	0.42 U	0.41 U	370	53
Benzo[a]pyrene	1	1	0.37 U	0.4 U	91 J	0.42 U	0.41 U	200 J	36
Benzo[b]fluoranthene	1	5.6	0.37 U	0.4 U	87 J	0.42 U	0.41 U	280 J	45
Benzo[k]fluoranthene	0.8	56	0.37 U	0.4 U	110 J	0.42 U	0.41 U	110 J	12
Chrysene	1	56	0.37 U	0.4 U	150 J	0.42 U	0.41 U	290 J	40
Dibenz[a,h]anthracene	0.33	0.56	0.37 U	0.4 U	200 U	0.42 U	0.41 U	310 U	10 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.37 U	0.4 U	44 J	0.42 U	0.41 U	83 J	21 J
Total Carcinogenic PAHs	NE	NE	ND	ND	652	ND	ND	1333	217
Total PAHs (mg/kg)									
Total PAHs	NE	NE	ND	0.071	3468	0.202	ND	12740	522.7
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	NA	NA	NA	NA	NA	2400	4800
Antimony	NE	NE	NA	NA	NA	NA	NA	16.5 UJ	11.3 UJ
Arsenic	13	16	NA	NA	NA	NA	NA	3.9 J	6.2 J
Barium	350	400	NA	NA	NA	NA	NA	12.9 J	35 J
Beryllium	7.2	590	NA	NA	NA	NA	NA	2.8 U	1.9 U
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	4.2 U	2.9 U
Calcium	NE	NE	NA	NA	NA	NA	NA	31800	19500
Chromium	NE	NE	NA	NA	NA	NA	NA	3.4	6.8
Cobalt	NE	NE	NA	NA	NA	NA	NA	2.2 J	5.1 J
Copper	50	270	NA	NA	NA	NA	NA	7.8	16.5
Iron	NE	NE	NA	NA	NA	NA	NA	7010	12200
Lead	63	1000	NA	NA	NA	NA	NA	1.8 J	35.9
Magnesium	NE	NE	NA	NA	NA	NA	NA	4350	3000
Manganese	1600	10,000	NA	NA	NA	NA	NA	156	135
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	5.4 J	11.9

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Potassium	NE	NE	NA	NA	NA	NA	NA	295 J	469 J
Selenium	3.9	1500	NA	NA	NA	NA	NA	22.6 U	15.4 U
Silver	2	1500	NA	NA	NA	NA	NA	4.2 U	2.9 U
Sodium	NE	NE	NA	NA	NA	NA	NA	57.8 J	220 J
Thallium	NE	NE	NA	NA	NA	NA	NA	28.2 UJ	19.3 UJ
Vanadium	NE	NE	NA	NA	NA	NA	NA	5.8 J	12.1
Zinc	109	10,000	NA	NA	NA	NA	NA	18.4	36.1
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	NA	NA	NA	NA	NA	5.04	0.594 U
Other (%)									
Moisture, Percent	NE	NE	12.3	21	19.5	23.8	22.9	16.5	15.8
Solids, Percent	NE	NE	87.7	79	80.5	76.2	77.1	83.5	84.2
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
BTEX (mg/kg)									
Benzene	0.06	44	0.97 J	0.045 J	0.49	0.0064 U	0.0064 U	0.0064 U	0.0062 U
Toluene	0.7	500	0.52 J	0.035 J	0.7	0.0064 U	0.0064 U	0.0064 U	0.0062 U
Ethylbenzene	1	390	1.2 UJ	0.013 J	0.054	0.0064 U	0.0064 U	0.0064 U	0.0062 U
Xylene, Total	0.26	500	1.4 J	0.13 J	0.5	0.0064 U	0.0064 U	0.0064 U	0.0062 U
Total BTEX	NE	NE	2.89	0.223	1.744	ND	ND	ND	ND
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	6.8 J	7.4 J	0.71 J	0.42 U	0.42 U	0.34 U	0.33 U
Acenaphthylene	100	500	22	25	3.1	0.42 U	0.42 U	0.34 U	0.33 U
Anthracene	100	500	26	26	3.1	0.42 U	0.42 U	0.34 U	0.33 U
Benzo[g,h,i]perylene	100	500	7.7 J	6.1 J	2.1 J	0.42 U	0.42 U	0.34 U	0.33 U
Fluoranthene	100	500	46	46	6	0.42 U	0.42 U	0.34 U	0.33 U
Fluorene	30	500	35	37	3.5	0.42 U	0.42 U	0.34 U	0.33 U
Methylnaphthalene,2-	NE	NE	34	42	5	0.42 U	0.42 U	0.34 U	0.33 U

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
Naphthalene	12	500	38	43	9.7	0.42 U	0.42 U	0.34 U	0.33 U
Phenanthrene	100	500	83	81	8.7	0.42 U	0.42 U	0.34 U	0.33 U
Pyrene	100	500	36 J	33 J	6.9 J	0.42 U	0.42 U	0.34 U	0.33 U
Total Noncarcinogenic PAHs	NE	NE	334.5	346.5	48.81	ND	ND	ND	ND
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	24	22	4.5	0.42 U	0.42 U	0.34 U	0.33 U
Benzo[a]pyrene	1	1	15	15	3.6	0.42 U	0.42 U	0.34 U	0.33 U
Benzo[b]fluoranthene	1	5.6	11	19	4.5	0.42 U	0.42 U	0.34 U	0.33 U
Benzo[k]fluoranthene	0.8	56	9.8	7.7 J	1.4	0.42 U	0.42 U	0.34 U	0.33 U
Chrysene	1	56	18	19	4.1	0.42 U	0.42 U	0.34 U	0.33 U
Dibenz[a,h]anthracene	0.33	0.56	3 J	2.3 J	0.89 J	0.42 U	0.42 U	0.34 U	0.33 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	7.1 J	6.1 J	2 J	0.42 U	0.42 U	0.34 U	0.33 U
Total Carcinogenic PAHs	NE	NE	87.9	91.1	20.99	ND	ND	ND	ND
Total PAHs (mg/kg)									
Total PAHs	NE	NE	422.4	437.6	69.8	ND	ND	ND	ND
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

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Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	3790	3850	5450	3410	3630	NA	NA
Antimony	NE	NE	13.2 UJ	17.7 UJ	16 UJ	16.7 UJ	13.8 UJ	NA	NA
Arsenic	13	16	5.3 J	7.3 J	2.2 J	4.7 J	2.9 J	NA	NA
Barium	350	400	29 J	23.5 J	23.4 J	27.6 J	29.9 J	NA	NA
Beryllium	7.2	590	2.3 U	3 U	2.7 U	2.9 U	2.4 U	NA	NA
Cadmium	2.5	9.3	3.4 U	4.5 U	4.1 U	4.3 U	3.5 U	NA	NA
Calcium	NE	NE	53700	39200	8410	17400	31000	NA	NA
Chromium	NE	NE	5	6.2	5.9	4.2	4.6	NA	NA
Cobalt	NE	NE	4 J	6.8 J	3.6 J	2.9 J	3.8 J	NA	NA
Copper	50	270	11.1	17.2	10	8.5	8.9	NA	NA
Iron	NE	NE	16800	17700	10500	8860	9790	NA	NA
Lead	63	1000	46.6	24.6	31.3	2.7 J	2.5	NA	NA
Magnesium	NE	NE	3430	3670	2560	4140	6430	NA	NA
Manganese	1600	10,000	303	225	128	172	245	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	9 J	13.2	9 J	7.1 J	7.5 J	NA	NA

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Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
Potassium	NE	NE	413 J	420 J	377 J	322 J	374 J	NA	NA
Selenium	3.9	1500	18.1 U	24.2 U	21.9 U	22.8 U	18.9 U	NA	NA
Silver	2	1500	3.4 U	4.5 U	4.1 U	4.3 U	3.5 U	NA	NA
Sodium	NE	NE	313 J	235 J	249 J	75.9 J	99.2 J	NA	NA
Thallium	NE	NE	22.6 UJ	30.2 UJ	27.3 UJ	28.5 UJ	23.6 UJ	NA	NA
Vanadium	NE	NE	10.1 J	11.1 J	11.2 J	7.9 J	8.9 J	NA	NA
Zinc	109	10,000	28.6	31.5	23.7	21.4	22.9	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	0.174 J	0.604 U	0.599 U	0.639 U	0.628 U	NA	NA
Other (%)									
Moisture, Percent	NE	NE	19.4	20.4	19.8	21.8	22	NA	NA
Solids, Percent	NE	NE	80.6	79.6	80.2	78.2	78	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
BTEX (mg/kg)									
Benzene	0.06	44	0.017	0.0058 U	0.0058 U	0.031 UJ	0.0058 U	0.0053 U	0.0056 U
Toluene	0.7	500	0.077	0.0058 U	0.0058 U	0.0065 J	0.0058 U	0.0053 U	0.0056 U
Ethylbenzene	1	390	0.011 J	0.0058 U	0.0058 U	0.12 J	0.0058 U	0.0053 U	0.0056 U
Xylene, Total	0.26	500	0.54	0.0058 U	0.0058 U	11 J	0.0058 U	0.0053 U	0.0056 U
Total BTEX	NE	NE	0.645	ND	ND	11.1265	ND	ND	ND
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

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Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	14 J	0.31 U	0.31 U	27	0.31 U	0.28 U	13 J
Acenaphthylene	100	500	61	0.31 U	0.31 U	36	0.31 U	0.28 U	100
Anthracene	100	500	87	0.31 U	0.31 U	100	0.31 U	0.28 U	220
Benzo[g,h,i]perylene	100	500	49 J	0.31 U	0.31 U	35 J	0.31 U	0.28 U	71
Fluoranthene	100	500	300	0.31 U	0.31 U	260	0.31 U	0.28 U	510
Fluorene	30	500	58	0.31 U	0.31 U	66	0.31 U	0.28 U	30 J
Methylnaphthalene,2-	NE	NE	160	0.31 U	0.31 U	290	0.31 U	0.28 U	21 J

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Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
Naphthalene	12	500	88	0.31 U	0.31 U	200	0.31 U	0.28 U	58 U
Phenanthrene	100	500	250	0.31 U	0.31 U	320	0.073 J	0.28 U	790
Pyrene	100	500	200	0.31 U	0.31 U	170	0.31 U	0.28 U	370
Total Noncarcinogenic PAHs	NE	NE	1267	ND	ND	1504	0.073	ND	2125
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	210	0.31 U	0.31 U	140	0.31 U	0.28 U	240
Benzo[a]pyrene	1	1	110 J	0.31 U	0.31 U	71 J	0.31 U	0.28 U	140
Benzo[b]fluoranthene	1	5.6	160 J	0.31 U	0.31 U	95 J	0.31 U	0.28 U	180
Benzo[k]fluoranthene	0.8	56	61 J	0.31 U	0.31 U	40 J	0.31 U	0.28 U	80
Chrysene	1	56	190	0.31 U	0.31 U	120	0.31 U	0.28 U	210
Dibenz[a,h]anthracene	0.33	0.56	34 J	0.31 U	0.31 U	24 J	0.31 U	0.28 U	28 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	62 J	0.31 U	0.31 U	42 J	0.31 U	0.28 U	120
Total Carcinogenic PAHs	NE	NE	827	ND	ND	532	ND	ND	998
Total PAHs (mg/kg)									
Total PAHs	NE	NE	2094	ND	ND	2036	0.073	ND	3123
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Saratoga Springs, New York

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Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

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Saratoga Springs, New York

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Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA	NA

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Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	NA	NA	NA	NA	NA	NA	NA
Other (%)									
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Saratoga Springs, New York

Sample Name: Sample Interval (feet): Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-32-08 (11-13) 12/16/2008	GP-33-08 (11-13) 12/16/2008	SB-06-08 (8-10) 12/18/2008	SB-06-08 (20-22) 12/18/2008	SB-08-08 (7-9) 12/18/2008	SB-08-08 (20-22) 12/18/2008	SB-09-08 (26-27) 12/18/2008
BTEX (mg/kg)									
Benzene	0.06	44	0.0055 U	0.0061 U	0.0039 J	0.0022 J	0.0015 J	0.0062 U	0.0063 U
Toluene	0.7	500	0.0055 U	0.0061 U	0.014	0.0094 U	0.00084 J	0.0062 U	0.0063 U
Ethylbenzene	1	390	0.0055 U	0.0061 U	0.0011 J	0.0094 U	0.0054 U	0.0062 U	0.0063 U
Xylene, Total	0.26	500	0.0055 U	0.0061 U	0.028	0.0094 U	0.0054 U	0.0062 U	0.0063 U
Total BTEX	NE	NE	ND	ND	0.047	0.0022	0.00234	ND	ND
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

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Saratoga Springs, New York

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Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.3 U	0.33 U	0.34 U	0.49 U	0.076 J	0.33 U	0.34 U
Acenaphthylene	100	500	0.3 U	0.33 U	0.34 U	0.49 U	0.75	0.12 J	0.34 U
Anthracene	100	500	0.3 U	0.33 U	0.34 U	0.49 U	1.5	0.25 J	0.34 U
Benzo[g,h,i]perylene	100	500	0.3 U	0.33 U	0.34 U	0.49 U	0.8 J	0.66	0.34 U
Fluoranthene	100	500	0.3 U	0.33 U	0.34 U	0.49 U	5.7	1.3	0.083 J
Fluorene	30	500	0.3 U	0.33 U	0.34 U	0.49 U	0.47	0.33 U	0.34 U
Methylnaphthalene,2-	NE	NE	0.3 U	0.33 U	0.11 J	0.49 U	0.29 U	0.33 U	0.34 U

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Naphthalene	12	500	0.3 U	0.33 U	0.19 J	0.49 U	0.11 J	0.12 J	0.34 U
Phenanthrene	100	500	0.3 U	0.33 U	0.077 J	0.49 U	2.8	0.47	0.077 J
Pyrene	100	500	0.3 U	0.33 U	0.34 U	0.49 U	3.4	1.4	0.34 U
Total Noncarcinogenic PAHs	NE	NE	ND	ND	0.377	ND	15.606	4.32	0.16
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.3 U	0.33 U	0.34 U	0.49 U	4.2	1.2	0.34 U
Benzo[a]pyrene	1	1	0.3 U	0.33 U	0.34 U	0.49 U	2.6 J	0.74	0.34 U
Benzo[b]fluoranthene	1	5.6	0.3 U	0.33 U	0.34 U	0.49 U	3.4 J	0.84	0.34 U
Benzo[k]fluoranthene	0.8	56	0.3 U	0.33 U	0.34 U	0.49 U	1.3 J	0.39	0.34 U
Chrysene	1	56	0.3 U	0.33 U	0.34 U	0.49 U	3.5	0.98	0.34 U
Dibenz[a,h]anthracene	0.33	0.56	0.3 U	0.33 U	0.34 U	0.49 U	0.55 J	0.45	0.34 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.3 U	0.33 U	0.34 U	0.49 U	0.94 J	0.67	0.34 U
Total Carcinogenic PAHs	NE	NE	ND	ND	ND	ND	16.49	5.27	ND
Total PAHs (mg/kg)									
Total PAHs	NE	NE	ND	ND	0.377	ND	32.096	9.59	0.16
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-32-08 (11-13) 12/16/2008	GP-33-08 (11-13) 12/16/2008	SB-06-08 (8-10) 12/18/2008	SB-06-08 (20-22) 12/18/2008	SB-08-08 (7-9) 12/18/2008	SB-08-08 (20-22) 12/18/2008	SB-09-08 (26-27) 12/18/2008
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-32-08 (11-13) 12/16/2008	GP-33-08 (11-13) 12/16/2008	SB-06-08 (8-10) 12/18/2008	SB-06-08 (20-22) 12/18/2008	SB-08-08 (7-9) 12/18/2008	SB-08-08 (20-22) 12/18/2008	SB-09-08 (26-27) 12/18/2008
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

Table 2
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Saratoga Springs, New York

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Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA	NA

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Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	NA	NA	NA	NA	NA	NA	NA
Other (%)									
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Saratoga Springs, New York

Sample Name: Sample Interval (feet): Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-09-08 (29-30) 12/18/2008	SB-10-08 (23-25) 12/17/2008	SB-11-08 (7-9) 12/18/2008	SB-11-08 (22-24) 12/18/2008	SB-12-08 (7-9) 12/18/2008	SB-12-08 (18-20) 12/18/2008	TP-04-08 (2ft) 12/16/2008
BTEX (mg/kg)									
Benzene	0.06	44	0.0062 U	0.0064 U	0.0053 U	0.0064 U	0.0056 U	0.0059 U	0.0056 U
Toluene	0.7	500	0.0062 U	0.0064 U	0.003 J	0.0064 U	0.0056 U	0.0059 U	0.0056 U
Ethylbenzene	1	390	0.0062 U	0.0064 U	0.0053 U	0.0064 U	0.0056 U	0.0059 U	0.0056 U
Xylene, Total	0.26	500	0.0062 U	0.0064 U	0.0053 U	0.0064 U	0.0056 U	0.0059 U	0.0056 U
Total BTEX	NE	NE	ND	ND	0.003	ND	ND	ND	ND
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

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Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.33 U	0.34 U	28 U	0.33 U	0.43 J	1.6 U	0.53 J
Acenaphthylene	100	500	0.33 U	0.34 U	42	0.33 U	2.9	3.5	2.9
Anthracene	100	500	0.33 U	0.34 U	77	0.33 U	5.7	7.2	4.6
Benzo[g,h,i]perylene	100	500	0.33 U	0.34 U	56	0.35	4.9	5.9	5.7 J
Fluoranthene	100	500	0.33 U	0.34 U	310	0.29 J	19	27	20
Fluorene	30	500	0.33 U	0.34 U	23 J	0.33 U	2.9	1.8	0.98 J
Methylnaphthalene,2-	NE	NE	0.33 U	0.34 U	6.7 J	0.33 U	0.7 J	0.89 J	1.1 J

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Naphthalene	12	500	0.33 U	0.34 U	14 J	0.33 U	0.69 J	1.7	1.4 J
Phenanthrene	100	500	0.33 U	0.34 U	120	0.15 J	15	7.7	10
Pyrene	100	500	0.33 U	0.34 U	250	0.25 J	16	23	17
Total Noncarcinogenic PAHs	NE	NE	ND	ND	898.7	1.04	68.22	78.69	64.21
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.33 U	0.34 U	230	0.18 J	16	22	18
Benzo[a]pyrene	1	1	0.33 U	0.34 U	140	0.082 J	10	13	15 J
Benzo[b]fluoranthene	1	5.6	0.33 U	0.34 U	150	0.12 J	10	13	15 J
Benzo[k]fluoranthene	0.8	56	0.33 U	0.34 U	65	0.054 J	4.5	5.3	6.6 J
Chrysene	1	56	0.33 U	0.34 U	180	0.14 J	14	18	16
Dibenz[a,h]anthracene	0.33	0.56	0.33 U	0.34 U	33	0.33 U	3	3.8	2.9 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.33 U	0.34 U	82	0.35	5.6	7.1	8.4 J
Total Carcinogenic PAHs	NE	NE	ND	ND	880	0.926	63.1	82.2	81.9
Total PAHs (mg/kg)									
Total PAHs	NE	NE	ND	ND	1778.7	1.966	131.32	160.89	146.11
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-09-08 (29-30) 12/18/2008	SB-10-08 (23-25) 12/17/2008	SB-11-08 (7-9) 12/18/2008	SB-11-08 (22-24) 12/18/2008	SB-12-08 (7-9) 12/18/2008	SB-12-08 (18-20) 12/18/2008	TP-04-08 (2ft) 12/16/2008
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-09-08 (29-30) 12/18/2008	SB-10-08 (23-25) 12/17/2008	SB-11-08 (7-9) 12/18/2008	SB-11-08 (22-24) 12/18/2008	SB-12-08 (7-9) 12/18/2008	SB-12-08 (18-20) 12/18/2008	TP-04-08 (2ft) 12/16/2008
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	NA	NA	NA	NA	NA	NA	NA
Other (%)									
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: Sample Interval (feet): Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
BTEX (mg/kg)							
Benzene	0.06	44	0.0054 U	0.0052 U	0.0052 U	0.0063 U	0.0058 U
Toluene	0.7	500	0.0054 U	0.0052 U	0.0052 U	0.0063 U	0.0058 U
Ethylbenzene	1	390	0.0054 U	0.0052 U	0.0052 U	0.0063 U	0.0058 U
Xylene, Total	0.26	500	0.0054 U	0.0052 U	0.0052 U	0.0063 U	0.0058 U
Total BTEX	NE	NE	ND	ND	ND	ND	ND
Other VOCs (mg/kg)							
Acetone	0.05	500	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)							
Acenaphthene	20	500	0.28 U	0.51 J	0.28 U	0.34 U	0.027 J
Acenaphthylene	100	500	0.048 J	2.9	0.052 J	0.34 U	0.31 U
Anthracene	100	500	0.061 J	4.8	0.039 J	0.34 U	0.022 J
Benzo[g,h,i]perylene	100	500	0.49	5	0.32	0.34 U	0.37 J
Fluoranthene	100	500	0.51	21	0.23 J	0.025 J	0.17 J
Fluorene	30	500	0.28 U	0.91 J	0.28 U	0.34 U	0.022 J
Methylnaphthalene,2-	NE	NE	0.017 J	1.4 U	0.01 J	0.01 J	0.094 J

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Naphthalene	12	500	0.28 U	1.4 U	0.28 U	0.34 U	0.17 J
Phenanthrene	100	500	0.15 J	6.5	0.056 J	0.035 J	0.055 J
Pyrene	100	500	0.49	20	0.23 J	0.022 J	0.22 J
Total Noncarcinogenic PAHs	NE	NE	1.766	61.62	0.937	0.092	1.15
Carcinogenic PAHs (mg/kg)							
Benz[a]anthracene	1	5.6	0.39	15	0.22 J	0.016 J	0.21 J
Benzo[a]pyrene	1	1	0.5	9.6	0.21 J	0.34 U	0.27 J
Benzo[b]fluoranthene	1	5.6	0.51	9.3	0.21 J	0.34 U	0.28 J
Benzo[k]fluoranthene	0.8	56	0.21 J	4.3	0.11 J	0.34 U	0.12 J
Chrysene	1	56	0.36	12	0.19 J	0.34 U	0.2 J
Dibenz[a,h]anthracene	0.33	0.56	0.27 J	2.3	0.24 J	0.34 U	0.27 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.51	6.3	0.3	0.34 U	0.34 J
Total Carcinogenic PAHs	NE	NE	2.75	58.8	1.48	0.016	1.69
Total PAHs (mg/kg)							
Total PAHs	NE	NE	4.516	120.42	2.417	0.108	2.84
Other SVOCs (mg/kg)							
Acetophenone	NE	NE	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA
PCBs (mg/kg)							
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA
Pesticides (mg/kg)							
Aldrin	0.005	0.68	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA
Herbicides (mg/kg)							
D,2,4'-	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)							
Aluminum	NE	NE	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Potassium	NE	NE	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)							
Cyanide, Total	27	27	NA	NA	NA	NA	NA
Other (%)							
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
BTEX (mg/kg)								
Benzene	0.06	44	0.0054 U	0.0063 U	0.0053 U	0.0052 U	0.0052 U	0.0063 U
Toluene	0.7	500	0.0054 U	0.0063 U	0.0053 U	0.0052 U	0.0052 U	0.0063 U
Ethylbenzene	1	390	0.0054 U	0.0063 U	0.0053 U	0.0052 U	0.0052 U	0.0063 UJ
Xylene, Total	0.26	500	0.0054 U	0.0063 U	0.0053 U	0.0052 U	0.0052 U	0.0063 UJ
Total BTEX	NE	NE	ND	ND	ND	ND	ND	ND
Other VOCs (mg/kg)								
Acetone	0.05	500	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)								
Acenaphthene	20	500	0.28 U	0.34 U	0.28 U	0.13 J	0.28 U	0.34 U
Acenaphthylene	100	500	0.14 J	0.34 U	0.28 U	0.11 J	0.28 U	0.027 J
Anthracene	100	500	0.048 J	0.34 U	0.28 U	0.56	0.013 J	0.34 U
Benzo[g,h,i]perylene	100	500	0.98 J	0.34 U	0.28 U	0.77	0.28 U	0.34 U
Fluoranthene	100	500	1.2 J	0.34 U	0.28 U	2.4	0.022 J	0.021 J
Fluorene	30	500	0.025 J	0.34 U	0.28 U	0.19 J	0.28 U	0.34 U
Methylnaphthalene,2-	NE	NE	0.027 J	0.34 U	0.28 U	0.054 J	0.017 J	0.031 J

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Naphthalene	12	500	0.28 U	0.34 U	0.28 U	0.076 J	0.28 U	0.051 J
Phenanthrene	100	500	0.048 J	0.34 U	0.28 U	1.7	0.057 J	0.051 J
Pyrene	100	500	1.5 J	0.34 U	0.28 U	2.1	0.024 J	0.034 J
Total Noncarcinogenic PAHs	NE	NE	3.968	ND	ND	8.09	0.133	0.215
Carcinogenic PAHs (mg/kg)								
Benz[a]anthracene	1	5.6	1.5 J	0.34 U	0.28 U	1.2	0.28 U	0.018 J
Benzo[a]pyrene	1	1	1.9 J	0.34 U	0.28 U	1.2	0.28 U	0.34 U
Benzo[b]fluoranthene	1	5.6	1.8 J	0.34 U	0.28 U	1.2	0.28 U	0.34 U
Benzo[k]fluoranthene	0.8	56	0.67	0.34 U	0.28 U	0.49	0.28 U	0.34 U
Chrysene	1	56	1.4 J	0.34 U	0.28 U	1.1	0.28 U	0.34 U
Dibenz[a,h]anthracene	0.33	0.56	0.56	0.34 U	0.28 U	0.35	0.28 U	0.34 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	1 J	0.34 U	0.28 U	0.84	0.28 U	0.34 U
Total Carcinogenic PAHs	NE	NE	8.83	ND	ND	6.38	ND	0.018
Total PAHs (mg/kg)								
Total PAHs	NE	NE	12.798	ND	ND	14.47	0.133	0.233
Other SVOCs (mg/kg)								
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
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Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)								
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)								
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA

Table 2
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Saratoga (Lake Avenue) Non-Owned Former MGP Site
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Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)								
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)								
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

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Potassium	NE	NE	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)								
Cyanide, Total	27	27	NA	NA	NA	NA	NA	NA
Other (%)								
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
BTEX (mg/kg)								
Benzene	0.06	44	0.0053 U	0.0052 U	0.0063 UJ	0.0053 U	0.0052 U	0.00091 J
Toluene	0.7	500	0.0053 U	0.0052 U	0.0063 UJ	0.00037 J	0.00028 J	0.00042 J
Ethylbenzene	1	390	0.0053 U	0.0052 U	0.0063 UJ	0.0053 U	0.0052 U	0.0062 U
Xylene, Total	0.26	500	0.0053 U	0.0052 U	0.0063 UJ	0.0053 U	0.0052 U	0.0062 U
Total BTEX	NE	NE	ND	ND	ND	0.00037	0.00028	0.00133
Other VOCs (mg/kg)								
Acetone	0.05	500	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)								
Acenaphthene	20	500	0.28 U	0.28 U	0.34 U	0.28 U	0.27 U	0.33 U
Acenaphthylene	100	500	0.28 U	0.03 J	0.34 U	0.28 U	0.27 U	0.33 U
Anthracene	100	500	0.017 J	0.023 J	0.34 U	0.28 U	0.27 U	0.33 U
Benzo[g,h,i]perylene	100	500	0.3	0.34	0.34 U	0.28 J	0.27 U	0.33 U
Fluoranthene	100	500	0.12 J	0.23 J	0.34 U	0.023 J	0.27 U	0.33 U
Fluorene	30	500	0.28 U	0.28 U	0.34 U	0.28 U	0.27 U	0.33 U
Methylnaphthalene,2-	NE	NE	0.28 U	0.28 U	0.34 U	0.03 J	0.27 U	0.33 U

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Naphthalene	12	500	0.28 U	0.28 U	0.34 U	0.28 U	0.27 U	0.33 U
Phenanthrene	100	500	0.046 J	0.042 J	0.34 U	0.027 J	0.27 U	0.33 U
Pyrene	100	500	0.11 J	0.22 J	0.34 U	0.027 J	0.27 U	0.33 U
Total Noncarcinogenic PAHs	NE	NE	0.593	0.885	ND	0.387	ND	ND
Carcinogenic PAHs (mg/kg)								
Benz[a]anthracene	1	5.6	0.1 J	0.2 J	0.34 U	0.03 J	0.27 U	0.33 U
Benzo[a]pyrene	1	1	0.11 J	0.25 J	0.34 U	0.036 J	0.27 U	0.33 U
Benzo[b]fluoranthene	1	5.6	0.12 J	0.26 J	0.34 U	0.039 J	0.27 U	0.33 U
Benzo[k]fluoranthene	0.8	56	0.049 J	0.11 J	0.34 U	0.28 U	0.27 U	0.33 U
Chrysene	1	56	0.093 J	0.17 J	0.34 U	0.029 J	0.27 U	0.33 U
Dibenz[a,h]anthracene	0.33	0.56	0.23 J	0.24 J	0.34 U	0.28 U	0.27 U	0.33 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.27 J	0.34	0.34 U	0.24 J	0.27 U	0.33 U
Total Carcinogenic PAHs	NE	NE	0.972	1.57	ND	0.374	ND	ND
Total PAHs (mg/kg)								
Total PAHs	NE	NE	1.565	2.455	ND	0.761	ND	ND
Other SVOCs (mg/kg)								
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)								
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)								
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)								
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)								
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA

Table 2
Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Potassium	NE	NE	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)								
Cyanide, Total	27	27	NA	NA	NA	NA	NA	NA
Other (%)								
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Notes:

mg/kg - milligrams/kilogram or parts per million (ppm)
BTEX - benzene, toluene, ethylbenzene, and xylenes
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
SVOCs - semivolatile organic compounds
PCBs - Polychlorinated Biphenyls
Total BTEX and Total PAHs are calculated using detects only.

6 NYCRR -New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York

6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Restricted Use Commercial Soil Cleanup Objectives

NE - not established
NA - not analyzed
ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Yellow shading indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED and 6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL
Gray shading indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED USE

Validation Qualifiers:

J - estimated value
U - indicates not detected at or above the reporting limit shown
UJ - not detected at or above the reporting limit is estimated

Validated

Table 3
Groundwater Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-01-03 12/9/2003	MW-01-03 11/16/2005	Duplicate of: MW-01-03 11/16/2005	MW-01-03 12/16/2008	MW-01-03 11/5/2009	MW-02-03 12/9/2003	MW-02-03 11/17/2005
BTEX (ug/l)								
Benzene	1	10 U	5 U	5 U	2.9 J	2.2 J	10 U	5 U
Toluene	5	10 U	5 U	5 U	5 U	1.3 J	10 U	5 U
Ethylbenzene	5	10 U	5 U	5 U	5 U	5 U	10 U	5 U
Xylene, Total	5	10 U	5 U	5 U	5 U	5 U	10 U	5 U
Total BTEX	NE	ND	ND	ND	2.9	3.5	ND	ND
Other VOCs (ug/l)								
Acetone	50*	10 U	NA	NA	NA	10 U	10 U	NA
Bromodichloromethane	50*	10 U	NA	NA	5 U	5 U	10 U	NA
Bromoform	50*	10 U	NA	NA	NA	5 U	10 U	NA
Bromomethane	5	10 U	NA	NA	5 UJ	5 U	10 U	NA
Butanone, 2- (MEK)	50*	10 U	NA	NA	NA	10 U	10 U	NA
Carbon disulfide	60*	10 U	NA	NA	5 U	5 U	10 U	NA
Carbon tetrachloride	5	10 U	NA	NA	NA	5 U	10 U	NA
Chlorobenzene	5	10 U	NA	NA	5 U	5 U	10 U	NA
Chloroethane	5	10 U	NA	NA	NA	5 U	10 U	NA
Chloroform	7	6 J	NA	NA	2.9 J	1.9 J	30	NA
Chloromethane	5	10 U	NA	NA	NA	5 U	10 U	NA
Cyclohexane	NE	10 U	NA	NA	NA	NA	10 U	NA
Dibromo-3-chloropropane, 1,2-	0.04	R	NA	NA	NA	NA	R	NA
Dibromochloromethane	50*	10 U	NA	NA	5 U	5 U	10 U	NA
Dibromoethane, 1,2-	0.0006	10 U	NA	NA	NA	NA	10 U	NA
Dichlorobenzene, 1,2-	3	10 U	NA	NA	NA	NA	10 U	NA
Dichlorobenzene, 1,3-	3	10 U	NA	NA	NA	NA	10 U	NA
Dichlorobenzene, 1,4-	3	10 U	NA	NA	NA	NA	10 U	NA
Dichlorodifluoromethane	5	10 U	NA	NA	NA	NA	10 U	NA
Dichloroethane, 1,1-	5	10 U	NA	NA	NA	5 U	10 U	NA
Dichloroethane, 1,2-	0.6	10 U	NA	NA	5 U	5 U	10 U	NA
Dichloroethene, cis-1,2-	5	10 U	NA	NA	5 U	5 U	10 U	NA
Dichloroethene, 1,1-	0.07	10 U	NA	NA	NA	5 U	10 U	NA
Dichloropropane, 1,2-	1	10 U	NA	NA	NA	5 U	10 U	NA
Dichloropropene, cis-1,3	NE	10 U	NA	NA	5 U	5 U	10 U	NA
Dichloropropene, trans-1,3	NE	10 U	NA	NA	NA	5 U	10 U	NA
Hexanone, 2-	50*	10 U	NA	NA	10 U	10 U	10 U	NA
Isopropyl benzene	5	10 U	NA	NA	NA	NA	10 U	NA
Methyl Acetate	NE	10 UJ	NA	NA	NA	NA	10 UJ	NA
Methyl tert-butyl ether	10*	10 U	NA	NA	NA	NA	10 U	NA
Methyl-2-pentanone, 4-	NE	10 U	NA	NA	10 U	10 U	10 U	NA
Methylcyclohexane	NE	10 U	NA	NA	NA	NA	10 U	NA
Methylene chloride	5	10 UJ	NA	NA	NA	5 U	10 UJ	NA
Styrene	5	10 U	NA	NA	NA	5 U	10 U	NA
Tetrachloroethane, 1,1,2,2-	5	10 U	NA	NA	5 U	5 U	10 U	NA
Tetrachloroethene	5	10 U	NA	NA	NA	5 U	10 U	NA
Trans-1,2-Dichloroethene	5	10 U	NA	NA	NA	5 U	10 U	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	10 U	NA	NA	NA	NA	10 U	NA
Trichlorobenzene, 1,2,4-	5	10 U	NA	NA	NA	NA	10 U	NA
Trichloroethane, 1,1,1-	5	10 U	NA	NA	5 U	5 U	10 U	NA
Trichloroethane, 1,1,2-	1	10 U	NA	NA	NA	5 U	10 U	NA
Trichloroethene	5	10 U	NA	NA	5 U	5 U	10 U	NA
Trichlorofluoromethane	5	10 U	NA	NA	NA	NA	10 U	NA
Vinyl chloride	2	10 U	NA	NA	NA	5 U	10 U	NA

Table 3
Groundwater Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-01-03 12/9/2003	MW-01-03 11/16/2005	Duplicate of: MW-01-03 11/16/2005	MW-01-03 12/16/2008	MW-01-03 11/5/2009	MW-02-03 12/9/2003	MW-02-03 11/17/2005
Non-carcinogenic PAHs (ug/l)								
Acenaphthene	20*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Acenaphthylene	NE	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Anthracene	50*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Fluoranthene	50*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Fluorene	50*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Naphthalene	10*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Phenanthrene	50*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Pyrene	50*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/l)								
Benz[a]anthracene	0.002*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 UJ	11 U	10 U	4 U	4 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Chrysene	0.002*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	11 U	10 U	4 U	4 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)								
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Other SVOCs (ug/l)								
Acetophenone	NE	10 U	NA	NA	NA	NA	10 U	NA
Atrazine	7.5	10 U	NA	NA	NA	NA	10 UJ	NA
Benzaldehyde	NE	10 U	NA	NA	NA	NA	10 U	NA
Benzyl alcohol	NE	NA	NA	NA	NA	4 U	NA	NA
Biphenyl,1,1-	5	10 U	NA	NA	NA	NA	10 U	NA
Bis(2-chloroethoxy)methane	5	10 U	NA	NA	NA	4 U	10 U	NA
Bis(2-chloroethyl)ether	1	10 U	NA	NA	NA	4 U	10 U	NA
Bis(2-ethylhexyl)phthalate	5	10 U	NA	NA	NA	4 U	10 U	NA
Bis(chloroisopropyl)ether	5	10 U	NA	NA	NA	4 U	10 U	NA
Bromophenyl phenyl ether, 4-	NE	10 U	NA	NA	NA	4 U	10 U	NA
Butyl benzyl phthalate	50*	10 U	NA	NA	NA	4 U	10 U	NA
Caprolactam	NE	10 U	NA	NA	NA	NA	10 U	NA
Carbazole	NE	10 U	NA	NA	NA	4 U	10 U	NA
Chloro-3-methylphenol, 4-	NE	10 U	NA	NA	NA	5 U	10 U	NA
Chloroaniline, 4-	5	10 U	NA	NA	NA	4 U	10 U	NA
Chloronaphthalene, 2-	10*	10 U	NA	NA	NA	4 U	10 U	NA
Chlorophenol, 2-	NE	10 UJ	NA	NA	NA	4 U	10 UJ	NA
Chlorophenyl phenyl ether, 4-	NE	10 U	NA	NA	NA	4 U	10 U	NA
Dibenzofuran	NE	10 U	NA	NA	NA	4 U	10 U	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	4 U	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	4 U	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	4 U	NA	NA
Dichlorobenzidine, 3,3-	5	10 U	NA	NA	NA	4 U	10 U	NA
Dichlorophenol, 2,4-	5	10 U	NA	NA	NA	4 U	10 U	NA
Diethyl phthalate	50*	10 U	NA	NA	NA	4 U	10 U	NA
Dimethyl phthalate	50*	10 U	NA	NA	NA	4 U	10 U	NA
Dimethylphenol, 2,4-	50*	10 UJ	NA	NA	NA	2.2 J	10 U	NA
Di-n-butyl phthalate	50	10 U	NA	NA	NA	4 U	10 U	NA

Table 3
Groundwater Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-01-03 12/9/2003	MW-01-03 11/16/2005	Duplicate of: MW-01-03 11/16/2005	MW-01-03 12/16/2008	MW-01-03 11/5/2009	MW-02-03 12/9/2003	MW-02-03 11/17/2005
Dinitro-2-methylphenol, 4,6-	NE	25 U	NA	NA	NA	25 U	24 U	NA
Dinitrophenol, 2,4-	10*	25 UJ	NA	NA	NA	25 UJ	24 UJ	NA
Dinitrotoluene, 2,4-	5	10 U	NA	NA	NA	4 U	10 U	NA
Dinitrotoluene, 2,6-	5	10 U	NA	NA	NA	4 U	10 U	NA
Di-n-octyl phthalate	50*	10 UJ	NA	NA	NA	4 U	10 U	NA
Hexachlorobenzene	0.04	10 U	NA	NA	NA	4 U	10 U	NA
Hexachlorobutadiene	0.5	10 UJ	NA	NA	NA	4 U	10 U	NA
Hexachlorocyclopentadiene	5	24 UJ	NA	NA	NA	4 U	23 U	NA
Hexachloroethane	5	10 U	NA	NA	NA	4 U	10 U	NA
Isophorone	50*	10 U	NA	NA	NA	4 U	10 U	NA
Methylphenol, 4-	1	10 U	NA	NA	NA	0.64 J	10 U	NA
Methylphenol, 2-	1	10 U	NA	NA	NA	1.3 J	10 U	NA
Nitroaniline, 2-	5	25 U	NA	NA	NA	4 U	24 U	NA
Nitroaniline, 3-	5	25 U	NA	NA	NA	4 U	24 U	NA
Nitroaniline, 4-	5	25 U	NA	NA	NA	4 U	24 U	NA
Nitrobenzene	0.4	10 U	NA	NA	NA	4 U	10 U	NA
Nitrophenol, 2-	NE	10 U	NA	NA	NA	4 U	10 U	NA
Nitrophenol, 4-	NE	25 UJ	NA	NA	NA	10 U	24 UJ	NA
N-Nitrosodi-n-propylamine	NE	10 U	NA	NA	NA	4 U	10 U	NA
N-Nitrosodiphenylamine	50*	10 U	NA	NA	NA	4 U	10 U	NA
Pentachlorophenol	1	25 UJ	NA	NA	NA	25 U	24 U	NA
Phenol	1	10 UJ	NA	NA	NA	4 U	10 UJ	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	4 U	NA	NA
Trichlorophenol, 2,4,5-	NE	10 U	NA	NA	NA	10 U	10 U	NA
Trichlorophenol, 2,4,6-	NE	10 U	NA	NA	NA	4 U	10 U	NA
Metals (ug/l)								
Aluminum	NE	55.6 U	500 U	500 U	NA	NA	291 U	500 U
Antimony	3	3.9 U	20 U	20 U	NA	NA	3.9 U	20 U
Arsenic	25	3.4 UJ	40 U	40 U	NA	NA	3.4 UJ	40 U
Barium	1000	55.6	35.2 J	35.9 J	NA	NA	46.0	50.1 J
Beryllium	3*	0.10 U	5 U	5 U	NA	NA	0.10 U	5 U
Cadmium	5	0.20 U	10 U	10 U	NA	NA	0.20 U	10 U
Calcium	NE	129000	118000	120000	NA	NA	114000	108000
Chromium	50	0.60 U	10 U	10 U	NA	NA	0.77 U	10 U
Cobalt	NE	0.70 U	2.6 J	10 U	NA	NA	0.71 U	10 U
Copper	200	0.80 U	10 U	10 U	NA	NA	1.5 U	10 U
Iron	300	71.0 UJ	200 U	200 U	NA	NA	413 J	200 U
Lead	25	1.9 U	10 U	10 U	NA	NA	1.9 U	10 U
Magnesium	35000*	12500	11200	11400	NA	NA	11800	10800
Manganese	300	76.2	15 U	15 U	NA	NA	37.6	15 U
Mercury	0.7	0.037 UJ	NA	NA	NA	NA	0.260 UJ	NA
Nickel	100	0.90 U	10 U	10 U	NA	NA	0.90 U	10 U
Potassium	NE	2830 J	2770 J	2770 J	NA	NA	3250 J	4610 J
Selenium	10	4.1 U	30 U	30 U	NA	NA	4.1 U	30 U
Silver	50	0.60 U	1.2 J	6 U	NA	NA	0.60 U	6 U
Sodium	20000	136000	94600 J	96700 J	NA	NA	61300	45600 J
Thallium	0.5*	4.0 U	40 U	40 U	NA	NA	4.0 U	40 U
Vanadium	NE	0.60 U	6 U	6 U	NA	NA	0.83 U	6 U
Zinc	2000*	1.3 U	50 U	50 U	NA	NA	2.6 U	50 U
Total Cyanide (ug/l)								
Cyanide, Total	200	NA	10 U	10 U	NA	NA	NA	10 U

Validated

Table 3
Groundwater Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-02-03 12/16/2008	MW-02-03 11/5/2009	MW-03-03 12/9/2003	Duplicate of: MW-03-03 12/9/2003	MW-03-03 11/17/2005	MW-03-03 12/16/2008	Duplicate of: MW-03-03 12/16/2008
BTEX (ug/l)								
Benzene	1	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Xylene, Total	5	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND
Other VOCs (ug/l)								
Acetone	50*	NA	10 U	10 U	10 U	NA	NA	NA
Bromodichloromethane	50*	5 U	5 U	10 U	10 U	NA	5 U	5 U
Bromoform	50*	NA	5 U	10 U	10 U	NA	NA	NA
Bromomethane	5	5 UJ	5 U	10 U	10 U	NA	5 UJ	5 UJ
Butanone, 2- (MEK)	50*	NA	10 U	10 U	10 U	NA	NA	NA
Carbon disulfide	60*	5 U	5 U	10 U	10 U	NA	5 U	5 U
Carbon tetrachloride	5	NA	5 U	10 U	10 U	NA	NA	NA
Chlorobenzene	5	5 U	5 U	10 U	10 U	NA	5 U	5 U
Chloroethane	5	NA	5 U	10 U	10 U	NA	NA	NA
Chloroform	7	5 U	5 U	10 U	10 U	NA	5 U	5 U
Chloromethane	5	NA	5 U	10 U	10 U	NA	NA	NA
Cyclohexane	NE	NA	NA	10 U	10 U	NA	NA	NA
Dibromo-3-chloropropane, 1,2-	0.04	NA	NA	R	R	NA	NA	NA
Dibromochloromethane	50*	5 U	5 U	10 U	10 U	NA	5 U	5 U
Dibromoethane, 1,2-	0.0006	NA	NA	10 U	10 U	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	10 U	10 U	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	10 U	10 U	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	10 U	10 U	NA	NA	NA
Dichlorodifluoromethane	5	NA	NA	10 U	10 U	NA	NA	NA
Dichloroethane, 1,1-	5	NA	5 U	10 U	10 U	NA	NA	NA
Dichloroethane, 1,2-	0.6	5 U	5 U	10 U	10 U	NA	5 U	5 U
Dichloroethene, cis-1,2-	5	5 U	5 U	10 U	10 U	NA	5 U	5 U
Dichloroethene, 1,1-	0.07	NA	5 U	10 U	10 U	NA	NA	NA
Dichloropropane, 1,2-	1	NA	5 U	10 U	10 U	NA	NA	NA
Dichloropropene, cis-1,3	NE	5 U	5 U	10 U	10 U	NA	5 U	5 U
Dichloropropene, trans-1,3	NE	NA	5 U	10 U	10 U	NA	NA	NA
Hexanone, 2-	50*	10 U	10 U	10 U	10 U	NA	10 U	10 U
Isopropyl benzene	5	NA	NA	10 U	10 U	NA	NA	NA
Methyl Acetate	NE	NA	NA	10 UJ	10 UJ	NA	NA	NA
Methyl tert-butyl ether	10*	NA	NA	10 U	10 U	NA	NA	NA
Methyl-2-pentanone, 4-	NE	10 U	10 U	10 U	10 U	NA	10 U	10 U
Methylcyclohexane	NE	NA	NA	10 U	10 U	NA	NA	NA
Methylene chloride	5	NA	5 U	10 UJ	10 UJ	NA	NA	NA
Styrene	5	NA	5 U	10 U	10 U	NA	NA	NA
Tetrachloroethane, 1,1,2,2-	5	5 U	5 U	10 U	10 U	NA	5 U	5 U
Tetrachloroethene	5	NA	5 U	10 U	10 U	NA	NA	NA
Trans-1,2-Dichloroethene	5	NA	5 U	10 U	10 U	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	NA	NA	10 U	10 U	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	10 U	10 U	NA	NA	NA
Trichloroethane, 1,1,1-	5	5 U	5 U	10 U	10 U	NA	5 U	5 U
Trichloroethane, 1,1,2-	1	NA	5 U	10 U	10 U	NA	NA	NA
Trichloroethene	5	5 U	5 U	10 U	10 U	NA	5 U	5 U
Trichlorofluoromethane	5	NA	NA	10 U	10 U	NA	NA	NA
Vinyl chloride	2	NA	5 U	10 U	10 U	NA	NA	NA

Table 3
Groundwater Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-02-03 12/16/2008	MW-02-03 11/5/2009	MW-03-03 12/9/2003	Duplicate of: MW-03-03 12/9/2003	MW-03-03 11/17/2005	MW-03-03 12/16/2008	Duplicate of: MW-03-03 12/16/2008
Non-carcinogenic PAHs (ug/l)								
Acenaphthene	20*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Acenaphthylene	NE	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Anthracene	50*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Benzo[g,h,i]perylene	NE	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Fluoranthene	50*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Fluorene	50*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Methylnaphthalene, 2-	NE	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Naphthalene	10*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Phenanthrene	50*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Pyrene	50*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/l)								
Benz[a]anthracene	0.002*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Benzo[a]pyrene	ND	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Benzo[b]fluoranthene	0.002*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Benzo[k]fluoranthene	0.002*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Chrysene	0.002*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Dibenz[a,h]anthracene	NE	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Indeno[1,2,3-cd]pyrene	0.002*	4 U	4.3 U	10 U	10 U	11 U	4 U	4 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)								
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Other SVOCs (ug/l)								
Acetophenone	NE	NA	NA	10 U	10 U	NA	NA	NA
Atrazine	7.5	NA	NA	10 UJ	10 UJ	NA	NA	NA
Benzaldehyde	NE	NA	NA	10 U	10 U	NA	NA	NA
Benzyl alcohol	NE	NA	4.3 U	NA	NA	NA	NA	NA
Biphenyl,1,1-	5	NA	NA	10 U	10 U	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	4.3 U	10 U	10 U	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	4.3 U	10 U	10 U	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	4.3 U	10 U	10 U	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	4.3 U	10 U	10 U	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	4.3 U	10 U	10 U	NA	NA	NA
Butyl benzyl phthalate	50*	NA	4.3 U	10 U	10 U	NA	NA	NA
Caprolactam	NE	NA	NA	10 U	10 U	NA	NA	NA
Carbazole	NE	NA	4.3 U	10 U	10 U	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	5.3 U	10 U	10 U	NA	NA	NA
Chloroaniline, 4-	5	NA	4.3 U	10 U	10 U	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	4.3 U	10 U	10 U	NA	NA	NA
Chlorophenol, 2-	NE	NA	4.3 U	10 UJ	10 UJ	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	4.3 U	10 U	10 U	NA	NA	NA
Dibenzofuran	NE	NA	4.3 U	10 U	10 U	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	4.3 U	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	4.3 U	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	4.3 U	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	4.3 U	10 U	10 U	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	4.3 U	10 U	10 U	NA	NA	NA
Diethyl phthalate	50*	NA	4.3 U	10 U	10 U	NA	NA	NA
Dimethyl phthalate	50*	NA	4.3 U	10 U	10 U	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	4.3 U	10 U	10 U	NA	NA	NA
Di-n-butyl phthalate	50	NA	4.3 U	10 U	10 U	NA	NA	NA

Table 3
Groundwater Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
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Sample Name: / Sample Date:	NYS AWQS	MW-02-03 12/16/2008	MW-02-03 11/5/2009	MW-03-03 12/9/2003	Duplicate of: MW-03-03 12/9/2003	MW-03-03 11/17/2005	MW-03-03 12/16/2008	Duplicate of: MW-03-03 12/16/2008
Dinitro-2-methylphenol, 4,6-	NE	NA	27 U	24 U	24 U	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	27 UJ	24 UJ	24 UJ	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	4.3 U	10 U	10 U	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	4.3 U	10 U	10 U	NA	NA	NA
Di-n-octyl phthalate	50*	NA	4.3 U	10 U	10 U	NA	NA	NA
Hexachlorobenzene	0.04	NA	4.3 U	10 U	10 U	NA	NA	NA
Hexachlorobutadiene	0.5	NA	4.3 U	10 U	10 U	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	4.3 U	23 U	22 U	NA	NA	NA
Hexachloroethane	5	NA	4.3 U	10 U	10 U	NA	NA	NA
Isophorone	50*	NA	4.3 U	10 U	10 U	NA	NA	NA
Methylphenol, 4-	1	NA	4.3 U	10 U	10 U	NA	NA	NA
Methylphenol, 2-	1	NA	4.3 U	10 U	10 U	NA	NA	NA
Nitroaniline, 2-	5	NA	4.3 U	24 U	24 U	NA	NA	NA
Nitroaniline, 3-	5	NA	4.3 U	24 U	24 U	NA	NA	NA
Nitroaniline, 4-	5	NA	4.3 U	24 U	24 U	NA	NA	NA
Nitrobenzene	0.4	NA	4.3 U	10 U	10 U	NA	NA	NA
Nitrophenol, 2-	NE	NA	4.3 U	10 U	10 U	NA	NA	NA
Nitrophenol, 4-	NE	NA	11 U	24 UJ	24 UJ	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	4.3 U	10 U	10 U	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	4.3 U	10 U	10 U	NA	NA	NA
Pentachlorophenol	1	NA	27 U	24 U	24 U	NA	NA	NA
Phenol	1	NA	4.3 U	10 UJ	10 UJ	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	4.3 U	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	11 U	10 U	10 U	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	4.3 U	10 U	10 U	NA	NA	NA
Metals (ug/l)								
Aluminum	NE	NA	NA	23.0 U	42.0 U	500 U	NA	NA
Antimony	3	NA	NA	3.9 U	3.9 U	20 U	NA	NA
Arsenic	25	NA	NA	3.4 UJ	3.4 UJ	40 U	NA	NA
Barium	1000	NA	NA	42.9	44.8	39.5 J	NA	NA
Beryllium	3*	NA	NA	0.10 U	0.10 U	5 U	NA	NA
Cadmium	5	NA	NA	0.20 U	0.20 U	10 U	NA	NA
Calcium	NE	NA	NA	105000	106000	112000	NA	NA
Chromium	50	NA	NA	0.62 U	0.60 U	10 U	NA	NA
Cobalt	NE	NA	NA	0.70 U	0.70 U	10 U	NA	NA
Copper	200	NA	NA	0.80 U	0.80 U	6.7 J	NA	NA
Iron	300	NA	NA	24.3 UJ	52.0 UJ	200 U	NA	NA
Lead	25	NA	NA	1.9 U	1.9 U	10 U	NA	NA
Magnesium	35000*	NA	NA	13400	13400	13600	NA	NA
Manganese	300	NA	NA	15.5	16.2	33.8	NA	NA
Mercury	0.7	NA	NA	0.037 UJ	0.037 UJ	NA	NA	NA
Nickel	100	NA	NA	0.90 U	0.90 U	10 U	NA	NA
Potassium	NE	NA	NA	4620 J	4650 J	3800 J	NA	NA
Selenium	10	NA	NA	5.0 U	4.1 U	30 U	NA	NA
Silver	50	NA	NA	0.60 U	0.60 U	6 U	NA	NA
Sodium	20000	NA	NA	80200	79900	75500 J	NA	NA
Thallium	0.5*	NA	NA	4.0 U	4.0 U	40 U	NA	NA
Vanadium	NE	NA	NA	0.63 U	0.60 U	6 U	NA	NA
Zinc	2000*	NA	NA	1.3 U	1.4 U	50 U	NA	NA
Total Cyanide (ug/l)								
Cyanide, Total	200	NA	NA	NA	NA	10 U	NA	NA

Table 3
Groundwater Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-03-03 11/5/2009	Duplicate of: MW-03-03 11/5/2009	MW-A-05 (off-site) 11/17/2005	MW-B-05 (off-site) 11/17/2005	MW-C-05 (off-site) 11/17/2005	MW-C-05 (off-site) 12/16/2008
BTEX (ug/l)							
Benzene	1	5 U	5 U	NA	NA	NA	5 U
Toluene	5	5 U	5 U	NA	NA	NA	5 U
Ethylbenzene	5	5 U	5 U	NA	NA	NA	5 U
Xylene, Total	5	5 U	5 U	NA	NA	NA	5 U
Total BTEX	NE	ND	ND	NA	NA	NA	ND
Other VOCs (ug/l)							
Acetone	50*	10 U	10 U	NA	NA	NA	NA
Bromodichloromethane	50*	5 U	5 U	NA	NA	NA	5 U
Bromoform	50*	5 U	5 U	NA	NA	NA	NA
Bromomethane	5	5 U	5 U	NA	NA	NA	5 UJ
Butanone, 2- (MEK)	50*	10 U	10 U	NA	NA	NA	NA
Carbon disulfide	60*	5 U	5 U	NA	NA	NA	5 U
Carbon tetrachloride	5	5 U	5 U	NA	NA	NA	NA
Chlorobenzene	5	5 U	5 U	NA	NA	NA	5 U
Chloroethane	5	5 U	5 U	NA	NA	NA	NA
Chloroform	7	5 U	5 U	NA	NA	NA	5 U
Chloromethane	5	5 U	5 U	NA	NA	NA	NA
Cyclohexane	NE	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane, 1,2-	0.04	NA	NA	NA	NA	NA	NA
Dibromochloromethane	50*	5 U	5 U	NA	NA	NA	5 U
Dibromoethane, 1,2-	0.0006	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	NA	NA	NA	NA	NA	NA
Dichloroethane, 1,1-	5	5 U	5 U	NA	NA	NA	NA
Dichloroethane, 1,2-	0.6	5 U	5 U	NA	NA	NA	5 U
Dichloroethene, cis-1,2-	5	5 U	5 U	NA	NA	NA	5 U
Dichloroethene, 1,1-	0.07	5 U	5 U	NA	NA	NA	NA
Dichloropropane, 1,2-	1	5 U	5 U	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	5 U	5 U	NA	NA	NA	5 U
Dichloropropene, trans-1,3	NE	5 U	5 U	NA	NA	NA	NA
Hexanone, 2-	50*	10 U	10 U	NA	NA	NA	10 U
Isopropyl benzene	5	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10*	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone, 4-	NE	10 U	10 U	NA	NA	NA	10 U
Methylcyclohexane	NE	NA	NA	NA	NA	NA	NA
Methylene chloride	5	5 U	5 U	NA	NA	NA	NA
Styrene	5	5 U	5 U	NA	NA	NA	NA
Tetrachloroethane, 1,1,2,2-	5	5 U	5 U	NA	NA	NA	5 U
Tetrachloroethene	5	5 U	5 U	NA	NA	NA	NA
Trans-1,2-Dichloroethene	5	5 U	5 U	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA
Trichloroethane, 1,1,1-	5	5 U	5 U	NA	NA	NA	5 U
Trichloroethane, 1,1,2-	1	5 U	5 U	NA	NA	NA	NA
Trichloroethene	5	5 U	5 U	NA	NA	NA	5 U
Trichlorofluoromethane	5	NA	NA	NA	NA	NA	NA
Vinyl chloride	2	5 U	5 U	NA	NA	NA	NA

Table 3
Groundwater Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-03-03 11/5/2009	Duplicate of: MW-03-03 11/5/2009	MW-A-05 (off-site) 11/17/2005	MW-B-05 (off-site) 11/17/2005	MW-C-05 (off-site) 11/17/2005	MW-C-05 (off-site) 12/16/2008
Non-carcinogenic PAHs (ug/l)							
Acenaphthene	20*	4.3 U	4.3 U	11 U	11 U	11 U	0.44 J
Acenaphthylene	NE	4.3 U	4.3 U	11 U	11 U	11 U	2.3 J
Anthracene	50*	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Benzo[g,h,i]perylene	NE	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Fluoranthene	50*	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Fluorene	50*	4.3 U	4.3 U	11 U	11 U	11 U	0.72 J
Methylnaphthalene, 2-	NE	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Naphthalene	10*	4.3 U	4.3 U	11 U	11 U	11 U	9.4
Phenanthrene	50*	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Pyrene	50*	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	12.86
Carcinogenic PAHs (ug/l)							
Benz[a]anthracene	0.002*	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Benzo[a]pyrene	ND	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Benzo[b]fluoranthene	0.002*	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Benzo[k]fluoranthene	0.002*	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Chrysene	0.002*	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Dibenz[a,h]anthracene	NE	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Indeno[1,2,3-cd]pyrene	0.002*	4.3 U	4.3 U	11 U	11 U	11 U	4 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)							
Total PAHs	NE	ND	ND	ND	ND	ND	12.86
Other SVOCs (ug/l)							
Acetophenone	NE	NA	NA	NA	NA	NA	NA
Atrazine	7.5	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	4.3 U	4.3 U	11 U	11 U	11 U	NA
Biphenyl,1,1-	5	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Bis(2-chloroethyl)ether	1	4.3 U	4.3 U	11 U	11 U	11 U	NA
Bis(2-ethylhexyl)phthalate	5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Bis(chloroisopropyl)ether	5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Bromophenyl phenyl ether, 4-	NE	4.3 U	4.3 U	11 U	11 U	11 U	NA
Butyl benzyl phthalate	50*	4.3 U	4.3 U	11 U	11 U	11 U	NA
Caprolactam	NE	NA	NA	NA	NA	NA	NA
Carbazole	NE	4.3 U	4.3 U	11 U	11 U	11 U	NA
Chloro-3-methylphenol, 4-	NE	5.4 U	5.4 U	11 U	11 U	11 U	NA
Chloroaniline, 4-	5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Chloronaphthalene, 2-	10*	4.3 U	4.3 U	11 U	11 U	11 U	NA
Chlorophenol, 2-	NE	4.3 U	4.3 U	11 U	11 U	11 U	NA
Chlorophenyl phenyl ether, 4-	NE	4.3 U	4.3 U	11 U	11 U	11 U	NA
Dibenzofuran	NE	4.3 U	4.3 U	11 U	11 U	11 U	NA
Dichlorobenzene, 1,2-	3	4.3 U	4.3 U	11 U	11 U	11 U	NA
Dichlorobenzene, 1,3-	3	4.3 U	4.3 U	11 U	11 U	11 U	NA
Dichlorobenzene, 1,4-	3	4.3 U	4.3 U	11 U	11 U	11 U	NA
Dichlorobenzidine, 3,3-	5	4.3 U	4.3 U	22 U	22 U	22 U	NA
Dichlorophenol, 2,4-	5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Diethyl phthalate	50*	4.3 U	4.3 U	11 U	11 U	11 U	NA
Dimethyl phthalate	50*	4.3 U	4.3 U	11 U	11 U	11 U	NA
Dimethylphenol, 2,4-	50*	4.3 UJ	4.3 U	11 U	11 U	11 U	NA
Di-n-butyl phthalate	50	4.3 U	4.3 U	11 U	11 U	11 U	NA

Table 3
Groundwater Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-03-03 11/5/2009	Duplicate of: MW-03-03 11/5/2009	MW-A-05 (off-site) 11/17/2005	MW-B-05 (off-site) 11/17/2005	MW-C-05 (off-site) 11/17/2005	MW-C-05 (off-site) 12/16/2008
Dinitro-2-methylphenol, 4,6-	NE	27 U	27 U	54 U	54 U	54 U	NA
Dinitrophenol, 2,4-	10*	27 U	27 UJ	54 U	54 U	54 U	NA
Dinitrotoluene, 2,4-	5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Dinitrotoluene, 2,6-	5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Di-n-octyl phthalate	50*	4.3 U	4.3 U	11 U	11 U	11 U	NA
Hexachlorobenzene	0.04	4.3 U	4.3 U	11 U	11 U	11 U	NA
Hexachlorobutadiene	0.5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Hexachlorocyclopentadiene	5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Hexachloroethane	5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Isophorone	50*	4.3 U	4.3 U	11 U	11 U	11 U	NA
Methylphenol, 4-	1	4.3 U	4.3 U	11 U	11 U	11 U	NA
Methylphenol, 2-	1	4.3 U	4.3 U	11 U	11 U	11 U	NA
Nitroaniline, 2-	5	4.3 U	4.3 U	54 U	54 U	54 U	NA
Nitroaniline, 3-	5	4.3 U	4.3 U	54 U	54 U	54 U	NA
Nitroaniline, 4-	5	4.3 U	4.3 U	22 U	22 U	22 U	NA
Nitrobenzene	0.4	4.3 U	4.3 U	11 U	11 U	11 U	NA
Nitrophenol, 2-	NE	4.3 U	4.3 U	11 U	11 U	11 U	NA
Nitrophenol, 4-	NE	11 U	11 U	54 U	54 U	54 U	NA
N-Nitrosodi-n-propylamine	NE	4.3 U	4.3 U	11 U	11 U	11 U	NA
N-Nitrosodiphenylamine	50*	4.3 U	4.3 U	11 U	11 U	11 U	NA
Pentachlorophenol	1	27 U	27 U	54 U	54 U	54 U	NA
Phenol	1	4.3 U	4.3 U	11 U	11 U	11 U	NA
Trichlorobenzene, 1,2,4-	5	4.3 U	4.3 U	11 U	11 U	11 U	NA
Trichlorophenol, 2,4,5-	NE	11 U	11 U	54 U	54 U	54 U	NA
Trichlorophenol, 2,4,6-	NE	4.3 U	4.3 U	11 U	11 U	11 U	NA
Metals (ug/l)							
Aluminum	NE	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA
Total Cyanide (ug/l)							
Cyanide, Total	200	NA	NA	NA	NA	NA	NA

Table 3
Groundwater Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Notes:

ug/l - micrograms per liter or parts per billion (ppb)
BTEX - benzene, toluene, ethylbenzene, and xylenes
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
SVOCs - semivolatile organic compounds
PCBs - Polychlorinated Biphenyls
Total BTEX, Total VOCs, Total PAHs, Total SVOCs, Total PCBs, Total Pesticides, and Benzo[a]pyrene (BaP) equivalents are calculated using detects only.

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard

NE - not established
NA - not analyzed
ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Shading indicates that the detected result value exceeds the NYS AWQS objective it was compared to

Validation Qualifiers:

J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated
R - rejected

Validated

Table 4
Soil Vapor and Ambient Air Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYSDOH Background Indoor Air Concentrations Upper Fence[1]	SV-01-08 12/19/2008	SV-02-08 12/19/2008	SV-03-08 12/19/2008	Duplicate of: SV-03-08 12/19/2008	NYSDOH Background Outdoor Air Concentrations Upper Fence[1]	AA-01-08 12/19/2008
BTEX (ug/m^3)							
Benzene	13	3.5	4.8	2.6 J	1.1 J	4.8	0.61
Toluene	57	25	24	18 J	0.69 J	5.1	0.62
Ethylbenzene	6.4	2.9	2.9	2.3 J	0.87 UJ	1	0.87 U
Xylene, m,p-	11	11	11	8.8 J	0.87 UJ	1	0.87 U
Xylene, o-	7.1	3	3.3	2.6 J	0.87 U	1.2	0.87 U
Total BTEX	NE	45.4	46	34.3	1.79	NE	1.23
Other VOCs (ug/m^3)							
Acetone	115	17 J	25 J	16 J	19 J	30	8.7 J
Allyl chloride	NE	0.63 U	0.63 U	0.63 U	0.63 U	NE	0.63 U
Benzyl chloride	NE	2.1 UJ	2.1 UJ	2.1 UJ	2.1 UJ	NE	2.1 UJ
Bromodichloromethane	NE	1.3 U	1.3 U	1.3 U	1.3 U	NE	1.3 U
Bromoform	NE	2.1 U	2.1 U	2.1 U	2.1 U	NE	2.1 U
Bromomethane	0.5	0.78 U	0.78 U	0.78 U	0.78 U	0.5	0.78 U
Butadiene, 1,3-	NE	0.88 U	0.88 U	0.88 U	0.88 U	NE	0.88 U
Butane	NE	5.2	2.7	1.9	1.8	NE	1
Butanone, 2- (MEK)	16	1.4	4.4	1.6	1.7	5.3	1.1
Carbon disulfide	NE	1.1	0.27	0.23	0.2	NE	1.6 U
Carbon tetrachloride	1.3	1.3 U	0.35	0.24 J	0.25	1.2	0.75
Chlorobenzene	0.4	0.92 U	0.92 U	0.92 U	0.92 U	0.25	0.92 U
Chloroethane	0.4	0.53 U	0.53 U	0.53 U	0.53 U	0.4	0.53 U
Chloroform	1.2	0.79	3.5	0.98 U	0.98 U	0.5	0.26
Chloromethane	4.2	0.54	1 U	0.38	1 U	4.3	1.6
Chlorotoluene, 2-	NE	2.1 U	2.1 U	2.1 U	2.1 U	NE	2.1 U
Cryofluorane	0.4	1.4 U	1.4 U	1.4 U	1.4 U	0.5	1.4 U
Cyclohexane	6.3	3.1	1.3	1.7	0.85	0.9	1.7 U
Decane, n-	15	0.58	0.33 J	0.39 J	5.8 U	4.7	5.8 U
Dibromochloromethane	NE	1.7 U	1.7 U	1.7 U	1.7 U	NE	1.7 U
Dibromoethane, 1,2-	0.4	1.5 U	1.5 U	1.5 U	1.5 U	0.4	1.5 U
Dichlorobenzene, 1,2-	0.5	1.2 U	1.2 U	1.2 U	1.2 U	0.4	1.2 U
Dichlorobenzene, 1,3-	0.5	1.2 U	1.2 U	1.2 U	1.2 U	0.4	1.2 U
Dichlorobenzene, 1,4-	1.2	1.2 U	1.2 U	1.2 U	1.2 U	0.5	1.2 U
Dichlorodifluoromethane	10	2.1	2.1	2	1.9	10	1.9
Dichloroethane, 1,1-	0.4	0.81 U	0.81 U	0.81 U	0.81 U	0.25	0.81 U
Dichloroethane, 1,2-	0.4	0.81 U	0.81 U	0.81 U	0.81 U	0.4	0.81 U

Table 4
Soil Vapor and Ambient Air Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Date:**	NYSDOH Background Indoor Air Concentrations Upper Fence[1]	SV-01-08 12/19/2008	SV-02-08 12/19/2008	SV-03-08 12/19/2008	Duplicate of: SV-03-08 12/19/2008	NYSDOH Background Outdoor Air Concentrations Upper Fence[1]	AA-01-08 12/19/2008
Dichloroethene, cis-1,2-	0.4	0.79 U	0.79 U	0.79 U	0.79 U	0.4	0.79 U
Dichloroethene, 1,1-	0.4	0.79 U	0.79 U	0.79 U	0.79 U	0.4	0.79 U
Dichloropropane, 1,2-	0.4	0.92 U	0.92 U	0.92 U	0.92 U	0.4	0.92 U
Dichloropropene, cis-1,3	0.4	0.91 U	0.91 U	0.91 U	0.91 U	0.4	0.91 U
Dichloropropene, trans-1,3	0.25	0.91 U	0.91 U	0.91 U	0.91 U	0.25	0.91 U
Dioxane, 1,4-	NE	1.8 U	1.8 U	1.8 U	1.8 U	NE	1.8 U
Dodecane, n-	9.2	7 UJ	7 UJ	7 UJ	7 UJ	4.5	7 UJ
Ethyltoluene, p-	NE	1	0.59	0.88	2 U	NE	2 U
Heptane, n-	18	2.1	2.3	1.6	2 U	2.2	2 U
Hexachlorobutadiene	0.5	11 U	11 U	11 U	11 U	0.5	11 U
Hexane, n-	14	5.1	3.6	2.8	1.3	2	0.34
Hexanone, 2-	NE	2 UJ	0.54 J	2 UJ	2 UJ	NE	2 UJ
Indan	NE	0.97 UJ	0.97 UJ	0.97 UJ	0.97 UJ	NE	0.97 UJ
Indene	NE	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	NE	1.9 UJ
Methyl tert-butyl ether	14	3.6 U	3.6 U	3.6 U	3.6 U	1.9	3.6 U
Methyl-2-pentanone, 4-	1.9	0.33	0.34 J	0.2 J	2 U	0.5	2 U
Methylene chloride	16	4.5	1.7 U	1.7 U	1.7 U	1.6	1.7 U
Methylnaphthalene, 1-	NE	15 UJ	15 UJ	15 UJ	15 UJ	NE	15 UJ
Methylnaphthalene, 2-	NE	15 UJ	15 UJ	15 UJ	15 UJ	NE	15 UJ
Naphthalene	12	2.6 U	2.6 U	2.6 U	2.6 U	10	2.6 U
Nonane	7.9	0.42	0.55	0.28	2.6 U	0.7	2.6 U
Octane, n-	5.2	0.65	0.69	0.45	1.9 U	1.5	1.9 U
Pentane	NE	44	4.8	3	2.6	NE	0.59
Propanol, 2-	NE	3	1.9	1.5	1.1	NE	0.68
Styrene	1.4	0.85 U	0.85 U	0.85 U	0.85 U	0.5	0.85 U
t-Butyl alcohol	NE	0.76	1.1	0.93	0.89	NE	0.12
Tetrachloroethane, 1,1,2,2-	0.4	1.4 U	1.4 U	1.4 U	1.4 U	0.4	1.4 U
Tetrachloroethene	2.5	1.4 U	0.61	46 J	1.4 UJ	0.7	1.4 U
Thiophene	NE	0.69 UJ	0.69 UJ	0.69 UJ	0.69 UJ	NE	0.69 UJ
Trans-1,2-Dichloroethene	NE	0.79 U	0.79 U	0.79 U	0.79 U	NE	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	2.5	0.43	0.44	0.4	0.43	2.5	0.61
Trichlorobenzene, 1,2,4-	0.5	7.4 U	7.4 U	7.4 U	7.4 U	0.4	7.4 U
Trichloroethane, 1,1,1-	2.5	1.1 U	1.1 U	1.1 U	1.1 U	0.6	1.1 U
Trichloroethane, 1,1,2-	0.4	1.1 U	1.1 U	1.1 U	1.1 U	0.3	1.1 U
Trichloroethene	0.5	1.1 U	1.1 U	2.3 J	1.2 J	0.4	1.1 U

Table 4
Soil Vapor and Ambient Air Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYSDOH Background Indoor Air Concentrations Upper Fence[1]	SV-01-08 12/19/2008	SV-02-08 12/19/2008	SV-03-08 12/19/2008	Duplicate of: SV-03-08 12/19/2008	NYSDOH Background Outdoor Air Concentrations Upper Fence[1]	AA-01-08 12/19/2008
Trichlorofluoromethane	12	1.2	2.3	0.94	0.93	5.1	1.1
Trimethylbenzene, 1,2,3-	2.5	0.98 UJ	0.98 UJ	0.98 UJ	0.98 UJ	0.5	0.98 UJ
Trimethylbenzene, 1,2,4-	9.8	1.6	2.3	2.1 J	0.98 UJ	1.9	0.98 U
Trimethylbenzene, 1,3,5-	3.9	0.75	0.84	0.76	0.98 U	0.7	0.98 U
Trimethylpentane, 2,2,4-	5	5.3	4.1	3.7 J	0.32 J	0.7	2.3 U
Undecane, n-	12	6.4 U	6.4 U	6.4 U	6.4 U	1.5	6.4 U
Vinyl bromide	NE	0.87 U	0.87 U	0.87 U	0.87 U	NE	0.87 U
Vinyl chloride	0.4	0.51 U	0.51 U	0.51 U	0.51 U	0.4	0.51 U

Notes:

ug/m^3 - micrograms per cubic meter

BTEX - benzene, toluene, ethylbenzene, and xylenes

VOCs - volatile organic compounds

[1] Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003. Background values for naphthalene are from the NYSDOH 1997

NE - not established

Shading indicates that the detected result value exceeds the NYSDOH objective it was compared to.

Validation Qualifiers:

J - estimated value

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Validated

Table 5
Documentation Sample Below Holder - Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-13-09 A 16.0 10/9/2009	SB-13-09 B 16.0 10/9/2009	SB-13-09 C 16.0 10/9/2009
BTEX (ug/kg)					
Benzene	0.06	44	6.1 U	6.2 U	NA
Toluene	0.7	500	6.1 U	6.2 U	NA
Ethylbenzene	1	390	6.1 U	6.2 U	NA
Xylene, Total	0.26	500	6.1 U	6.2 U	NA
Total BTEX	NE	NE	ND	ND	NA
Other VOCs (ug/kg)					
Acetone	0.05	500	24 U	25 U	NA
Bromodichloromethane	NE	NE	6.1 U	6.2 U	NA
Bromoform	NE	NE	6.1 U	6.2 U	NA
Bromomethane	NE	NE	6.1 U	6.2 U	NA
Butanone, 2- (MEK)	0.12	500	12 U	12 U	NA
Carbon disulfide	NE	NE	6.1 U	6.2 U	NA
Carbon tetrachloride	0.76	22	6.1 U	6.2 U	NA
Chlorobenzene	1.1	500	6.1 U	6.2 U	NA
Chloroethane	NE	NE	6.1 U	6.2 U	NA
Chloroform	0.37	350	6.1 U	6.2 U	NA
Chloromethane	NE	NE	6.1 U	6.2 U	NA
Dibromochloromethane	NE	NE	6.1 U	6.2 U	NA
Dichloroethane, 1,1-	0.27	240	6.1 U	6.2 U	NA
Dichloroethane, 1,2-	0.02	30	6.1 U	6.2 U	NA
Dichloroethene, cis-1,2-	0.25	500	6.1 U	6.2 U	NA
Dichloroethene, 1,1-	0.33	500	6.1 U	6.2 U	NA
Dichloropropane, 1,2-	NE	NE	6.1 U	6.2 U	NA
Dichloropropene, cis-1,3	NE	NE	6.1 U	6.2 U	NA
Dichloropropene, trans-1,3	NE	NE	6.1 U	6.2 U	NA
Hexanone, 2-	NE	NE	12 U	12 U	NA
Methyl-2-pentanone, 4-	NE	NE	6.1 U	6.2 U	NA
Methylene chloride	0.05	500	24 U	25 U	NA
Styrene	NE	NE	6.1 U	6.2 U	NA
Tetrachloroethane, 1,1,2,2-	NE	NE	6.1 U	6.2 U	NA
Tetrachloroethene	1.3	150	6.1 U	6.2 U	NA
Trans-1,2-Dichloroethene	0.19	500	6.1 U	6.2 U	NA
Trichloroethane, 1,1,1-	0.68	500	6.1 U	6.2 U	NA

Table 5
Documentation Sample Below Holder - Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-13-09 A 16.0 10/9/2009	SB-13-09 B 16.0 10/9/2009	SB-13-09 C 16.0 10/9/2009
Trichloroethane, 1,1,2-	NE	NE	6.1 U	6.2 U	NA
Trichloroethene	0.47	200	6.1 U	6.2 U	NA
Vinyl chloride	0.02	13	6.1 U	6.2 U	NA
Non-carcinogenic PAHs (ug/kg)					
Acenaphthene	20	500	NA	NA	340 U
Acenaphthylene	100	500	NA	NA	340 U
Anthracene	100	500	NA	NA	340 U
Benzo[g,h,i]perylene	100	500	NA	NA	340 U
Fluoranthene	100	500	NA	NA	340 U
Fluorene	30	500	NA	NA	340 U
Methylnaphthalene, 2-	NE	NE	NA	NA	340 U
Naphthalene	12	500	NA	NA	340 U
Phenanthrene	100	500	NA	NA	340 U
Pyrene	100	500	NA	NA	340 U
Total Non-carcinogenic PAHs	NE	NE	NA	NA	ND
Carcinogenic PAHs (ug/kg)					
Benz[a]anthracene	1	5.6	NA	NA	340 U
Benzo[a]pyrene	1	1	NA	NA	340 U
Benzo[b]fluoranthene	1	5.6	NA	NA	340 U
Benzo[k]fluoranthene	0.8	56	NA	NA	340 U
Chrysene	1	56	NA	NA	340 U
Dibenz[a,h]anthracene	0.33	0.56	NA	NA	340 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	NA	NA	340 U
Total Carcinogenic PAHs	NE	NE	NA	NA	ND
Total PAHs (ug/kg)					
Total PAHs	NE	NE	NA	NA	ND
Other SVOCs (ug/kg)					
Benzyl alcohol	NE	NE	NA	NA	340 U
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	340 U
Bis(2-chloroethyl)ether	NE	NE	NA	NA	340 U
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	**39 J**
Bis(chloroisopropyl)ether	NE	NE	NA	NA	340 U
Bromophenyl phenyl ether, 4-	NE	NE	NA	NA	340 U
Butyl benzyl phthalate	NE	NE	NA	NA	340 U

Table 5
Documentation Sample Below Holder - Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-13-09 A 16.0 10/9/2009	SB-13-09 B 16.0 10/9/2009	SB-13-09 C 16.0 10/9/2009
Carbazole	NE	NE	NA	NA	340 U
Chloro-3-methylphenol, 4-	NE	NE	NA	NA	340 U
Chloroaniline, 4-	NE	NE	NA	NA	340 U
Chloronaphthalene, 2-	NE	NE	NA	NA	340 U
Chlorophenol, 2-	NE	NE	NA	NA	340 U
Chlorophenyl phenyl ether, 4-	NE	NE	NA	NA	340 U
Dibenzofuran	7	350	NA	NA	340 U
Dichlorobenzene, 1,2-	1.1	500	NA	NA	340 U
Dichlorobenzene, 1,3-	2.4	280	NA	NA	340 U
Dichlorobenzene, 1,4-	1.8	130	NA	NA	340 U
Dichlorobenzidine, 3,3-	NE	NE	NA	NA	840 U
Dichlorophenol, 2,4-	NE	NE	NA	NA	340 U
Diethyl phthalate	NE	NE	NA	NA	340 U
Dimethyl phthalate	NE	NE	NA	NA	340 U
Dimethylphenol, 2,4-	NE	NE	NA	NA	340 U
Di-n-butyl phthalate	NE	NE	NA	NA	340 U
Dinitro-2-methylphenol, 4,6-	NE	NE	NA	NA	2100 UJ
Dinitrophenol, 2,4-	NE	NE	NA	NA	2100 UJ
Dinitrotoluene, 2,4-	NE	NE	NA	NA	340 U
Dinitrotoluene, 2,6-	NE	NE	NA	NA	340 U
Di-n-octyl phthalate	NE	NE	NA	NA	340 U
Hexachlorobenzene	0.33	6	NA	NA	340 U
Hexachlorobutadiene	NE	NE	NA	NA	340 U
Hexachlorocyclopentadiene	NE	NE	NA	NA	840 U
Hexachloroethane	NE	NE	NA	NA	340 U
Isophorone	NE	NE	NA	NA	340 U
Methylphenol, 4-	0.33	500	NA	NA	340 U
Methylphenol, 2-	0.33	500	NA	NA	340 U
Nitroaniline, 2-	NE	NE	NA	NA	2100 U
Nitroaniline, 3-	NE	NE	NA	NA	2100 U
Nitroaniline, 4-	NE	NE	NA	NA	340 U
Nitrobenzene	NE	NE	NA	NA	340 U
Nitrophenol, 2-	NE	NE	NA	NA	340 U
Nitrophenol, 4-	NE	NE	NA	NA	2100 U

Table 5
Documentation Sample Below Holder - Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-13-09 A 16.0 10/9/2009	SB-13-09 B 16.0 10/9/2009	SB-13-09 C 16.0 10/9/2009
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	340 U
N-Nitrosodiphenylamine	NE	NE	NA	NA	340 U
Pentachlorophenol	0.8	6.7	NA	NA	2100 U
Phenol	0.33	500	NA	NA	340 U
Trichlorobenzene, 1,2,4-	NE	NE	NA	NA	340 U
Trichlorophenol, 2,4,5-	NE	NE	NA	NA	2100 U
Trichlorophenol, 2,4,6-	NE	NE	NA	NA	340 U

Table 5
Documentation Sample Below Holder - Subsurface Soil Analytical Results
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Notes:

mg/kg - milligrams/kilogram or parts per million (ppm)

BTEX - benzene, toluene, ethylbenzene, and xylenes

VOCs - volatile organic compounds

PAHs - polycyclic aromatic hydrocarbons

SVOCs - semivolatile organic compounds

Total BTEX and Total PAHs are calculated using detects only.

6 NYCRR -New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York

6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Restricted Use Commercial Soil Cleanup Objectives

NE - not established

NA - not analyzed

ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Validation Qualifiers:

J - estimated value

U - indicates not detected at or above the reporting limit shown

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 6
Soil Boring Physical and Chemical Impacts Summary
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Location	Boring ID (Depth in ft)	Physical Observations	Unrestricted Use SCO Exceedances?	Restricted Restricted-Commercial Use SCO Exceedances?
Inside the Gas Holder Foundation Wall	SB-01-03 (0-2)	none	No	No
	SB-01-03 (8-10)	tar present	Yes	Yes
	SB-01-03 (14-15.25)	tar present	Yes	Yes
	SB-02-03	tar present	NAS	NAS
	GP-07-04	tar present	NAS	NAS
	GP-08-04	tar present	NAS	NAS
	GP-13-04	tar present	NAS	NAS
	GP-14-04	naphthalene odor	NAS	NAS
	GP-19-04	tar present	NAS	NAS
	GP-22-05 (6.5-7.5)	sheen/naphthalene odor	Yes	Yes
	GP-23-05 (10-11)	naphthalene odor	Yes	Yes
	GP-24-05 (11-12)	sheen/naphthalene odor	Yes	Yes
	SB-07-08 (Comp) see Table 3	tar present	Yes	Yes
Outside the Gas Holder Foundation Wall	SB-03-03 (10-12)	none	No	No
	SB-03-03 (12-14)	none	NAS	NAS
	SB-03-03 (24-26)	naphthalene odor	No	No
	SB-03-03 (28-30)	none	No	No
	GP-01-04	naphthalene odor	NAS	NAS
	GP-02-04	none	NAS	NAS
	GP-03-04	naphthalene odor	NAS	NAS
	GP-04-04	none	NAS	NAS
	GP-05-04 (15-16)	naphthalene odor	Yes	Yes
	GP-06-04	tar present	NAS	NAS
	GP-09-04	tar present	NAS	NAS
	GP-10-04	none	NAS	NAS
	GP-11-04	none	NAS	NAS
	GP-12-04	none	NAS	NAS
	GP-16-04	none	NAS	NAS
	GP-17-04	none	NAS	NAS
	GP-18-04	none	NAS	NAS
	GP-25-05 (21-22.5)	none	No	No
	GP-26-05 (17-18)	none	No	No
	SB-06-08 (8-10)	none	No	No
	SB-06-08 (20-22)	none	No	No
	SB-08-08 (7-9)	none	Yes	Yes
	SB-08-08 (20-22)	none	No	No
	SB-09-08 (26-27)	none	No	No
	SB-09-08 (29-30)	none	No	No
	SB-10-08 (23-25)	none	No	No
	SB-11-08 (7-9)	none	Yes	Yes
	SB-11-08 (22-24)	none	No	No
	SB-12-08 (7-9)	none	Yes	Yes
	SB-12-08 (18-20)	none	Yes	Yes

Table 6
Soil Boring Physical and Chemical Impacts Summary
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Location	Boring ID (Depth in ft)	Physical Observations	Unrestricted Use SCO Exceedances?	Restricted Restricted-Commercial Use SCO Exceedances?
North of Gas Holder	GP-15-04 (13-15)	none	No	No
	GP-15-04 (24-25)	none	No	No
In Vicinity of Former Gas House	GP-20-04 (12-13)	fuel oil & naphthalene odor	Yes	Yes
	GP-20-04 (24-25)	none	No	No
	GP-21-05 (14-15)	fuel oil & naphthalene odor	Yes	Yes
	GP-27-08 (24-25)	none	No	No
	GP-27-08 (28-30)	none	No	No
	GP-28-08 (5-10)	petroleum-like odor	Yes	Yes
	GP-28-08 (28-30)	none	No	No
	GP-29-08 (5-10)	petroleum-like odor	Yes	Yes
	GP-29-08 (34-35)	none	No	No
	GP-30-08 (8-10)	none	No	No
	GP-31-08 (8-10)	none	Yes	Yes
	GP-32-08 (11-13)	none	No	No
	GP-33-08 (11-13)	none	No	No
Northern Property Edge	SB-04-03 (12-14)	none	No	No
	SB-04-03 (14-16)	none	NAS	NAS
NE Property Edge	SB-05-03 (13-15)	none	NAS	NAS
	SB-05-03 (15-17)	none	No	No

Notes:

NAS - No Analytical Sample Collected

Table 7
Soil Clean-Up Objectives and Criteria for Imported Backfill
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Contaminant	CAS Number	Unrestricted Use*	Commercial Use
Metals			
Arsenic	7440-38-2	13	16
Barium	7440-39-3	350	400
Beryllium	7440-41-7	7.2	590
Cadmium	7440-43-9	2.5	9.3
Chromium, hexavalent	18540-29-9	30	400
Chromium, trivalent	16065-83-1	50	1500
Copper	7440-50-8	50	270
Total Cyanide		27	27
Lead	7439-92-1	63	1000
Manganese	7439-96-5	1600	10,000
Total Mercury		0.18	2.8
Nickel	7440-02-0	30	310
Selenium	7782-49-2	3.9	1500
Silver	7440-22-4	2	1500
Zinc	7440-66-6	109	10,000
Polychlorinated Biphenyls (PCBs)/Pesticides			
TP Acid (Silvex), 2,4,5	93-72-1	3.8	500
DDD,4,4-	72-54-8	0.0033	92
DDE,4,4-	72-55-9	0.0033	62
DDT,4,4-	50-29-3	0.0033	47
Aldrin	309-00-2	0.005	0.68
Alpha-bhc	319-84-6	0.02	3.4
Alpha-chlordane	5103-71-9	0.094	24
Beta-BHC	319-85-7	0.036	3
Delta-BHC	319-86-8	0.04	500
Dibenzofuran	132-64-9	7	350
Dieldrin	60-57-1	0.005	1.4
Endosulfan I	959-98-8	2.4	200
Endosulfan II	33213-65-9	2.4	200
Endosulfan sulfate	1031-07-8	2.4	200
Endrin	72-20-8	0.014	89
Heptachlor	76-44-8	0.042	15
Lindane	58-89-9	0.1	9.2
PCBs	1336-36-3	0.1	1
Semivolatile Organic Compounds (SVOCs)			
Acenaphthene	83-32-9	20	500
Acenaphthylene	208-96-8	100	500
Anthracene	120-12-7	100	500
Benz[a]anthracene	56-55-3	1	5.6

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Table 7
Soil Clean-Up Objectives and Criteria for Imported Backfill
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Contaminant	CAS Number	Unrestricted Use*	Commercial Use
SVOCs (continued)			
Benzo[a]pyrene	50-32-8	1	1
Benzo[b]fluoranthene	205-99-2	1	5.6
Benzo[g,h,i]perylene	191-24-2	100	500
Benzo[k]fluoranthene	207-08-9	0.8	56
Chrysene	218-01-9	1	56
Dibenz[a,h]anthracene	53-70-3	0.33	1
Fluoranthene	206-44-0	100	500
Fluorene	86-73-7	30	500
Indeno[1,2,3-cd]pyrene	193-39-5	0.5	5.6
m-Cresol	108-39-4	0.33	500
Napthalene	91-20-3	12	500
o-Cresol	95-48-7	0.33	500
p-Cresol	106-44-5	0.33	500
Pentachlorophenol	87-86-5	0.8	6.7
Phenanthrene	85-01-8	100	500
Phenol	108-95-2		500
Pyrene	129-00-0	100	500
Volatile Organic Compounds (VOCs)			
Acetone	67-64-1	0.05	500
Benzene	71-43-2	0.06	44
Butylbenzene	104-51-8	12	500
Butylbenzene, sec-	135-98-8	11	500
Butylbenzene, tert-	98-06-6	5.9	500
Carbon tetrachloride	56-23-5	0.76	22
Chlorobenzene	108-90-7	1.1	500
Chloroform	67-66-3	0.37	350
Dichlorobenzene,1,2-	95-50-1	1.1	500
Dichlorobenzene,1,3-	541-73-1	2.4	280
Dichlorobenzene,1,4-	106-46-7	1.8	130
Dichloroethane,1,1-	75-34-3	0.27	240
Dichloroethane,1,2-	107-06-2	0.02	30
Dichloroethene, cis-1,2-	156-59-2	0.25	500
Dichloroethene,1,1-	75-35-4	0.33	500
Dioxane, 1,4-	123-91-1	0.1	130
Ethylbenzene	100-41-4	1	390
Hexachlorobenzene	118-74-1	0.33	6
Methyl ethyl ketone	78-93-3	0.12	500
Methyl tert-butyl ether	1634-04-4	0.93	500
Methylene chloride	75-09-2	0.05	500

Table 7
Soil Clean-Up Objectives and Criteria for Imported Backfill
Saratoga (Lake Avenue) Non-Owned Former MGP Site
Saratoga Springs, New York

Contaminant	CAS Number	Unrestricted Use*	Commercial Use
VOCs (continued)			
Proplybenzene, n-	103-65-1	3.1	500
Tetrachloroethene	127-18-4	1.3	150
Toluene	108-88-3	0.7	500
Trans-1,2-dichloroethene	156-60-5	0.19	500
Trichloroethane,1,1,1-	71-55-6	0.68	500
Trichloroethene	79-01-6	0.47	200
Trimethylbenzene,1,2,4-	95-63-6	3.6	190
Trimethylbenzene,1,3,5-	108-67-8	8.4	190
Vinyl chloride	75-01-4	0.02	13
Xylene, total	1330-20-7	0.26	500

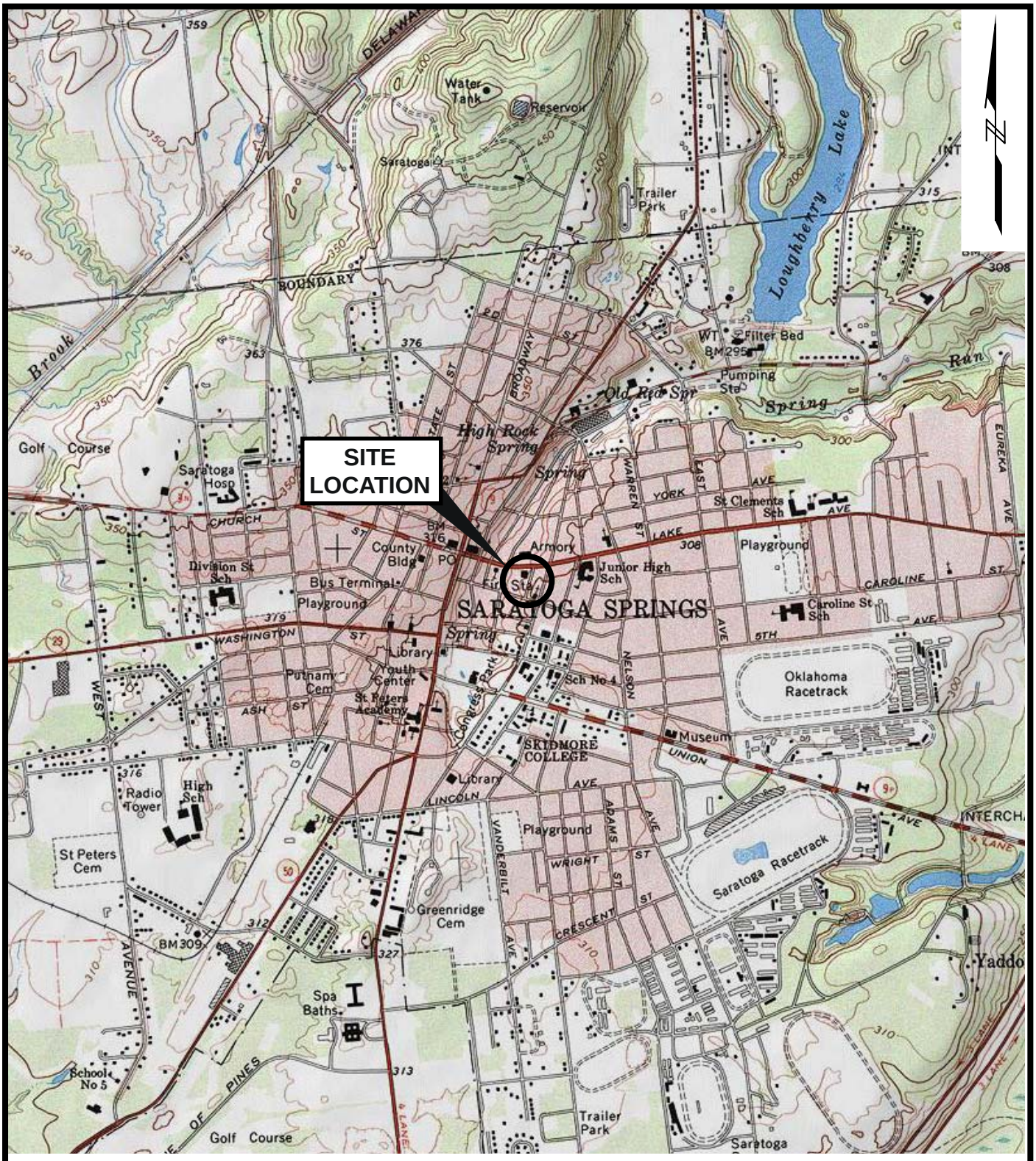
General Notes:

1. From Table 375-6.8(a) of 6 New York Code of Rules & Regulations (NYCRR) Part 375.
2. SCO = Soil Cleanup Objective.

Table 8 Contact List Saratoga (Lake Avenue) Non-Owned Former MGP Site Saratoga Springs, New York		
Medical, Fire, and Police:	911	
One Call Center:	(800) 272-4480 (3 day notice required for utility markout)	
Poison Control Center:	(800) 222-1222	
Pollution Toxic Chemical Oil Spills:	(800) 424-8802	
NYSDEC Spills Hotline	(800) 457-7362	
Other Contact Numbers		
R. Scott Deyette	NYSDEC	(518) 402-9662 sxdeyett@gw.dec.state.ny.us
Deanna Ripstein	NYSDOH	(518) 402-7850 Dmr13@health.state.ny.us
Edward Neuhauser	National Grid	(315) 428-3355 Edward.Neuhauser@us.ngrid.com
Jerry Zak	GEI Consultants, Inc.	(860) 368-5300 jzak@geiconsultant.com
City Hall	City of Saratoga Springs	(518) 587-3550
Bob Williams, Fire Chief SSFD Central Firehouse	Saratoga Springs Fire Department	(518) 587-3550 (ext 3012) rwilliams@ssfdny.org

* Note: Contact numbers subject to change and should be updated as necessary

Figures



SOURCE:
Map created with TOPO! ® ©2001 National Geographic
(www.nationalgeographic.com/topo)

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SCALE, FEET

SITE MANAGEMENT PLAN
SARATOGA SPRINGS (LAKE AVE.) FORMER MGP
SARATOGA SPRINGS, NEW YORK

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SITE LOCATION MAP

Project 034400-2-2006 | November 2012 | Figure 1

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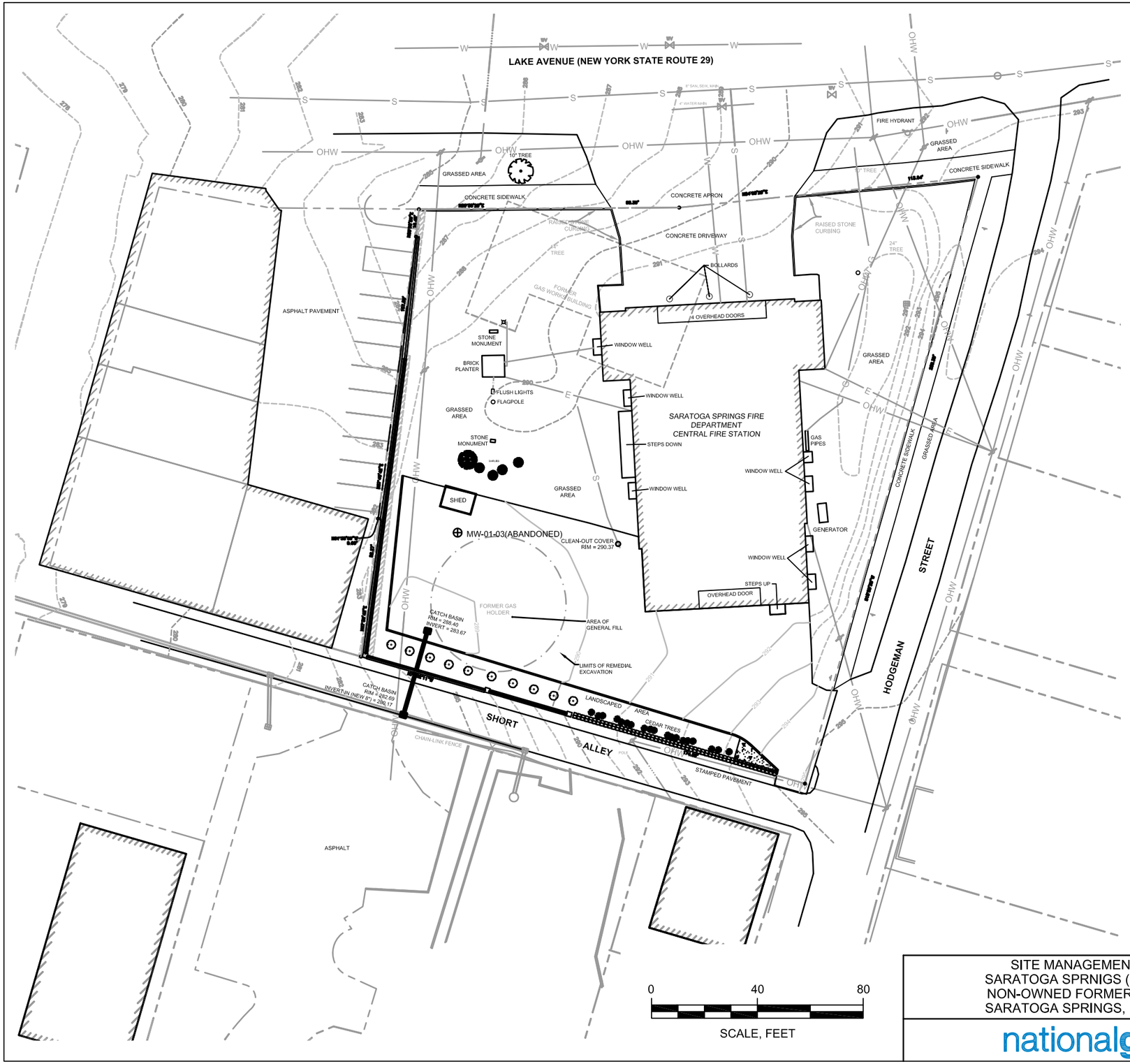

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- APPROXIMATE LOCATION OF HISTORIC STRUCTURE (NOT CONFIRMED)
- CONFIREMED HISTORIC SUBSURFACE STRUCTURE
- STONE RETAINING WALL
- SIGN
- CATCH BASIN
- 291 — GROUND SURFACE CONTOUR (FT)
- W — WATER LINE
- S — SANITARY SEWER LINE
- G — UNDERGROUND NATURAL GAS LINE
- E — UNDERGROUND ELECTRICAL LINE
- O/H — OVERHEAD ELECTRICAL LINE
- WATER VALVE
- UTILITY POLE
- NEW CATCH BASIN
- NEW DRAIN PIPE
- BRICK WALL
- NEW BRICK WALL AND FENCE
- MW-01-03 — MONITORING WELL
- 290 — PAVEMENT ELEVATION CONTOUR (FEET NVGD 29)
- ARBOR VITAE
- LAND CONVEYED FROM EDRON TO THE CITY OF SARATOGA

SOURCES:

1. MAP BASED ON *MAP NO. 2004-06-03: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS*, DATED FEBRUARY 10, 2004, SCALE 1"=20', BY SURVEY ASSOCIATES, LLC., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
2. LANDS OF THE CITY OF SARATOGA SPRINGS BOOK OF DEEDS, PAGE 200.

SITE MANAGEMENT PLAN
SARATOGA SPRNIGS (LAKE AVE.)
NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

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Project 034400-2-2006

GENERAL SITE PLAN

November 2012 Figure 2

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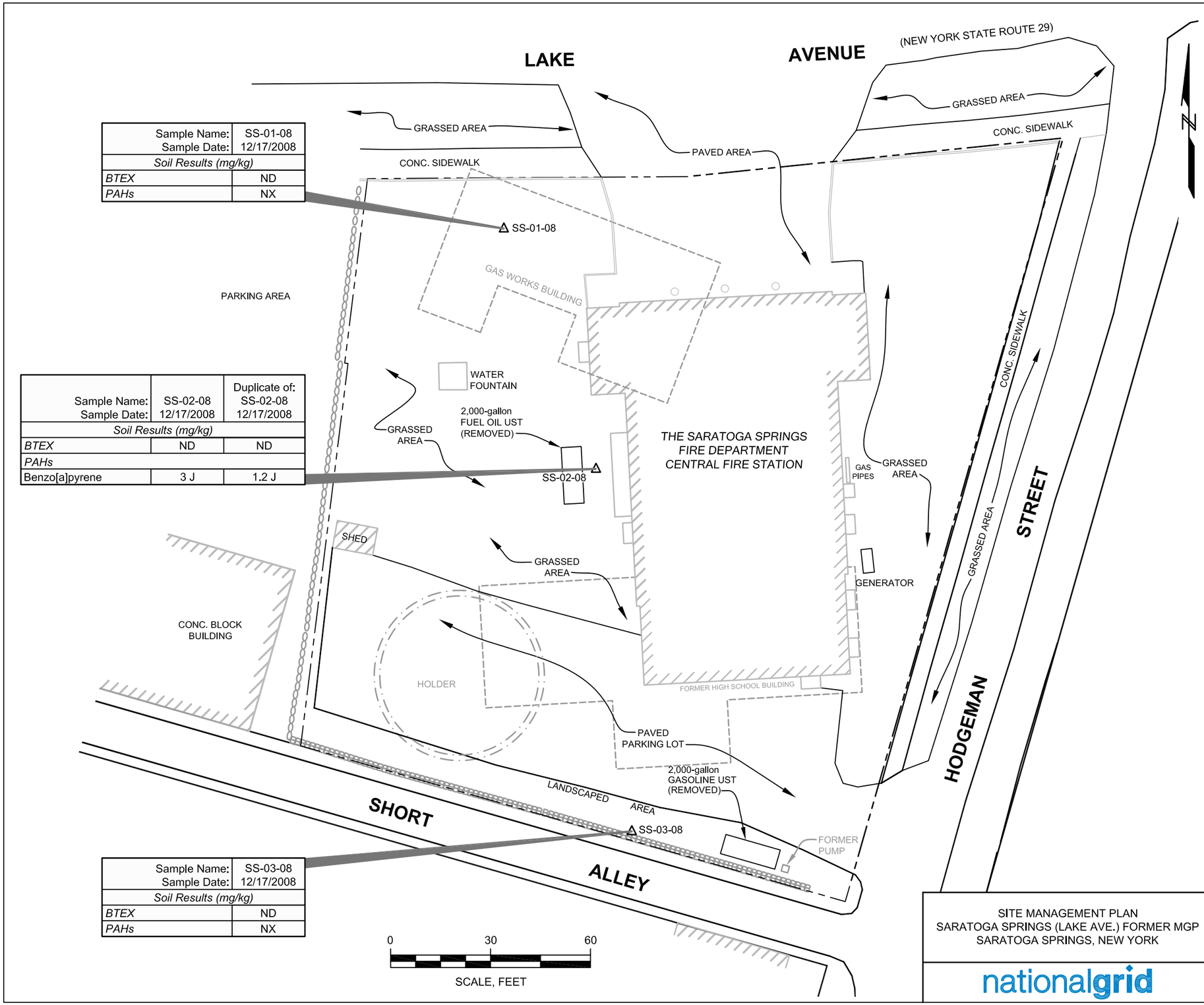

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- APPROXIMATE LOCATION OF HISTORIC STRUCTURE (NOT CONFIRMED)
- CONFIRMED HISTORIC SUBSURFACE STRUCTURE
- STONE RETAINING WALL
- BRICK WALL
- 291 — GROUND SURFACE CONTOUR (FT)
- SS-01-08 △ — 2008 SURFACE SOIL SAMPLE LOCATION

ANALYTICAL BOX NOTES

ND	NOT DETECTED
NE	NOT ESTABLISHED
NX	NO EXCEEDANCE
J	ESTIMATED VALUE
mg/kg	MILLIGRAMS PER KILOGRAM
BTEX	BENZENE, TOLUENE, ETHLYBENZENE, AND XYLENES
PAHs	POLYCYCLIC AROMATIC HYDROCARBONS

Constituents	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL
Soil Results (mg/kg)	
BTEX	
Total BTEX	NE
PAHs	
Benzo[a]pyrene	1
Total PAHs	NE

NOTES:

1. BASE MAP IS REPRESENTATIVE OF SITE CONDITIONS AT TIME OF REMEDIAL INVESTIGATION, PRIOR TO REMEDIAL ACTION.
2. TOTAL PAHS AND BTEX ARE CALCULATED USING DETECTS ONLY
3. REGULATORY COMPARISON AGAINST NYCRR, CHAPTER IV, PART 375-6 RESTRICTED USE COMMERCIAL SOIL CLEANUP OBJECTIVES.

SOURCES:

1. MAP BASED ON *MAP NO. 2004-06-03: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS,* DATED FEBRUARY 10, 2004, SCALE: 1" = 20', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
2. 2008 INVESTIGATION BASED ON *MAP NO. 2009-01-05: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS,* UPDATED FEBRUARY 2, 2009, SCALE: 1" = 10', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
3. LANDS OF THE CITY OF SARATOGA SPRINGS FROM BOOK 356 OF DEEDS, PAGE 200.

SITE MANAGEMENT PLAN
SARATOGA SPRINGS (LAKE AVE.) FORMER MGP
SARATOGA SPRINGS, NEW YORK

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SURFACE SOIL RESULTS (mg/kg)

Project 034400-2-2006 | November 2012 | Figure 3

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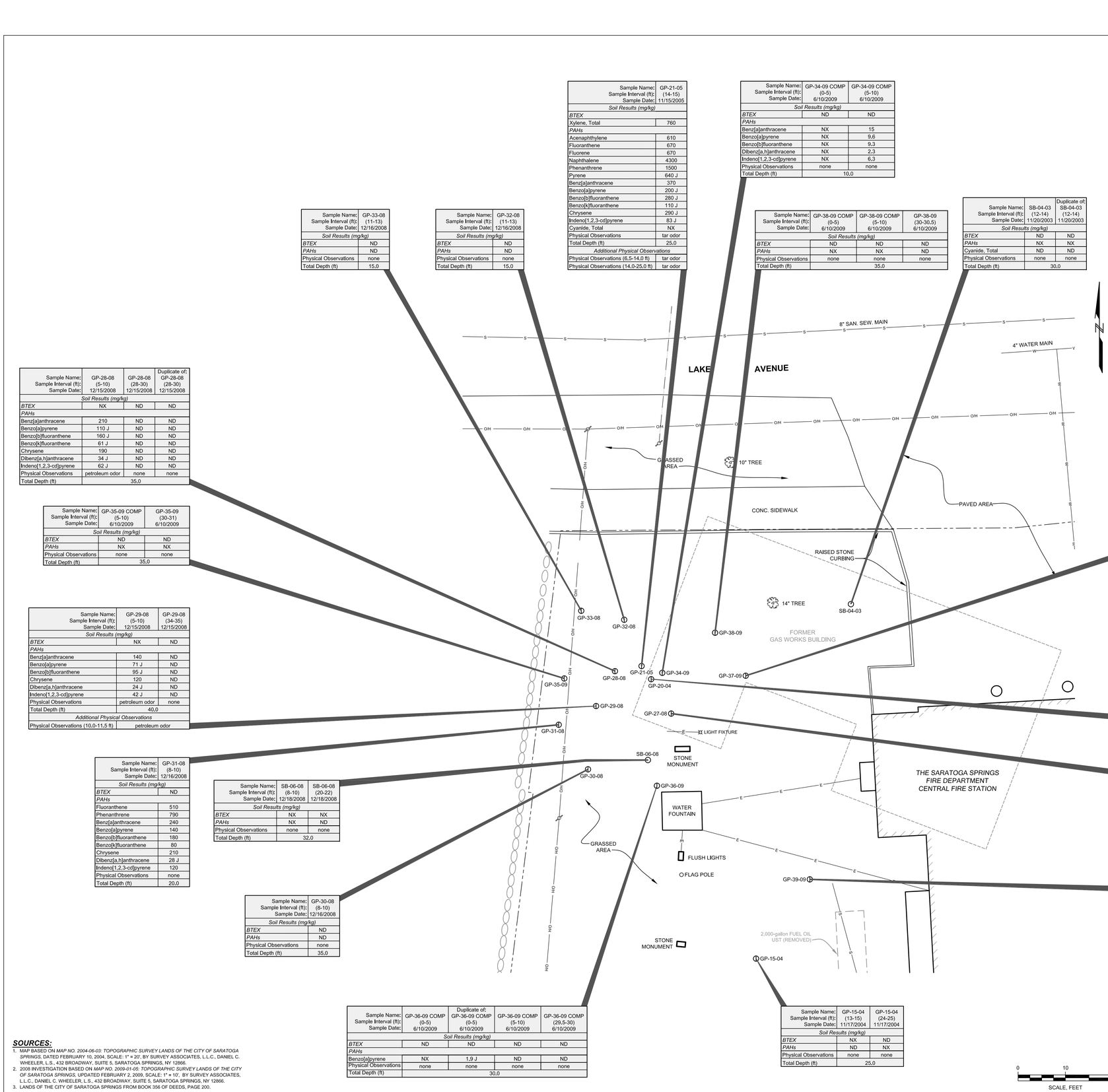


Sample Name:	GP-33-08
Sample Interval (ft):	(11-13)
Sample Date:	12/16/2008
Soil Results (mg/kg)	
BTEX	ND
PAHs	ND
Physical Observations	none
Total Depth (ft)	15,0

Sample Name:	GP-32-08
Sample Interval (ft):	(11-13)
Sample Date:	12/16/2008
Soil Results (mg/kg)	
BTEX	ND
PAHs	ND
Physical Observations	none
Total Depth (ft)	15,0

Sample Name:	GP-21-05
Sample Interval (ft):	(14-15)
Sample Date:	11/15/2005
Soil Results (mg/kg)	
BTEX	
Xylene, Total	760
PAHs	
Acenaphthylene	610
Fluoranthene	670
Fluorene	670
Naphthalene	4300
Phenanthrene	1500
Pyrene	640 J
Benz[a]anthracene	370
Benzo[a]pyrene	200 J
Benzo[b]fluoranthene	280 J
Benzo[k]fluoranthene	110 J
Chrysene	290 J
Indeno[1,2,3-cd]pyrene	83 J
Cyanide, Total	NX
Physical Observations	tar odor
Total Depth (ft)	25.0
Additional Physical Observations	
Physical Observations (6,5-14,0 ft)	tar odor
Physical Observations (14,0-25,0 ft)	tar odor

Sample Name:	GP-34-09 COMP	GP-34-09 COMP
Sample Interval (ft):	(0-5)	(5-10)
Sample Date:	6/10/2009	6/10/2009
Soil Results (mg/kg)		
BTEX	ND	ND
PAHs		
Benz[a]anthracene	NX	15
Benzo[a]pyrene	NX	9,6
Benzo[b]fluoranthene	NX	9,3
Dibenz[a,h]anthracene	NX	2,3
Indeno[1,2,3-cd]pyrene	NX	6,3
Physical Observations	none	none
Total Depth (ft)	10,0	

Sample Name:	GP-38-09 COMP	GP-38-09 COMP	GP-38-09
Sample Interval (ft):	(0-5)	(5-10)	(30-30,5)
Sample Date:	6/10/2009	6/10/2009	6/10/2009
Soil Results (mg/kg)			
BTEX	ND	ND	ND
PAHs	NX	NX	ND
Physical Observations	none	none	none
Total Depth (ft)	35,0		

Sample Name:	SB-04-03	Duplicate of: SB-04-03
Sample Interval (ft):	(12-14)	(12-14)
Sample Date:	11/20/2003	11/20/2003
Soil Results (mg/kg)		
BTEX	ND	ND
PAHs	NX	NX
Cyanide, Total	ND	ND
Physical Observations	none	none
Total Depth (ft)	30,0	

Sample Name:	GP-28-08	GP-28-08	Duplicate of: GP-28-08
Sample Interval (ft):	(5-10)	(28-30)	(28-30)
Sample Date:	12/15/2008	12/15/2008	12/15/2008
Soil Results (mg/kg)			
BTEX	NX	ND	ND
PAHs			
Benz[a]anthracene	210	ND	ND
Benzo[a]pyrene	110 J	ND	ND
Benzo[b]fluoranthene	160 J	ND	ND
Benzo[k]fluoranthene	61 J	ND	ND
Chrysene	190	ND	ND
Dibenz[a,h]anthracene	34 J	ND	ND
Indeno[1,2,3-cd]pyrene	62 J	ND	ND
Physical Observations	petroleum odor	none	none
Total Depth (ft)	35,0		

Sample Name:	GP-35-09 COMP	GP-35-09
Sample Interval (ft):	(5-10)	(30-31)
Sample Date:	6/10/2009	6/10/2009
Soil Results (mg/kg)		
BTEX	ND	ND
PAHs	NX	NX
Physical Observations	none	none
Total Depth (ft)	35,0	

Sample Name:	GP-37-09 COMP	GP-37-09 COMP	GP-37-09
Sample Interval (ft):	(0-5)	(5-10)	(30-30,5)
Sample Date:	6/10/2009	6/10/2009	6/11/2009
Soil Results (mg/kg)			
BTEX	ND	ND	ND
PAHs			
Benzo[a]pyrene	1,2	ND	ND
Physical Observations	tar odor	none	none
Total Depth (ft)	31,0		

Sample Name:	GP-29-08	GP-29-08
Sample Interval (ft):	(5-10)	(34-35)
Sample Date:	12/15/2008	12/15/2008
Soil Results (mg/kg)		
BTEX	NX	ND
PAHs		
Benz[a]anthracene	140	ND
Benzo[a]pyrene	71 J	ND
Benzo[b]fluoranthene	95 J	ND
Chrysene	120	ND
Dibenz[a,h]anthracene	24 J	ND
Indeno[1,2,3-cd]pyrene	42 J	ND
Physical Observations	petroleum odor	none
Total Depth (ft)	40,0	
Additional Physical Observations		
Physical Observations (10,0-11,5 ft)	petroleum odor	

Sample Name:	GP-20-04	GP-20-04	Duplicate of: GP-20-04
Sample Interval (ft):	(12-13)	(24-25)	(24-25)
Sample Date:	11/17/2004	11/17/2004	11/17/2004
Soil Results (mg/kg)			
BTEX	NX	NX	NX
PAHs			
Phenanthrene	550	NX	ND
Benz[a]anthracene	170 J	ND	ND
Benzo[a]pyrene	91 J	ND	ND
Benzo[b]fluoranthene	87 J	ND	ND
Benzo[k]fluoranthene	110 J	ND	ND
Chrysene	150 J	ND	ND
Indeno[1,2,3-cd]pyrene	44 J	ND	ND
Physical Observations	tar odor	none	none
Total Depth (ft)	25,0		
Additional Physical Observations			
Physical Observations (10,0-12,0 ft)	tar odor		
Physical Observations (13,0-20,0 ft)	tar odor		

Sample Name:	GP-31-08
Sample Interval (ft):	(8-10)
Sample Date:	12/16/2008
Soil Results (mg/kg)	
BTEX	ND
PAHs	
Fluoranthene	510
Phenanthrene	790
Benz[a]anthracene	240
Benzo[a]pyrene	140
Benzo[b]fluoranthene	180
Benzo[k]fluoranthene	80
Chrysene	210
Dibenz[a,h]anthracene	28 J
Indeno[1,2,3-cd]pyrene	120
Physical Observations	none
Total Depth (ft)	20,0

Sample Name:	SB-06-08	SB-06-08
Sample Interval (ft):	(8-10)	(20-22)
Sample Date:	12/18/2008	12/18/2008
Soil Results (mg/kg)		
BTEX	NX	NX
PAHs	NX	ND
Physical Observations	none	none
Total Depth (ft)	32,0	

Sample Name:	GP-27-08	GP-27-08
Sample Interval (ft):	(24-25)	(28-30)
Sample Date:	12/15/2008	12/15/2008
Soil Results (mg/kg)		
BTEX	ND	ND
PAHs	ND	ND
Physical Observations	none	none
Total Depth (ft)	35,0	

Sample Name:	GP-30-08
Sample Interval (ft):	(8-10)
Sample Date:	12/16/2008
Soil Results (mg/kg)	
BTEX	ND
PAHs	ND
Physical Observations	none
Total Depth (ft)	35,0

Sample Name:	GP-39-09 COMP	GP-39-09 COMP	GP-39-09 COMP
Sample Interval (ft):	(0-5)	(5-10)	(39,5-40)
Sample Date:	6/11/2009	6/11/2009	6/11/2009
Soil Results (mg/kg)			
BTEX	NX	NX	NX
PAHs	NX	ND	ND
Physical Observations	none	none	none
Total Depth (ft)	40,0		

Sample Name:	GP-36-09 COMP	Duplicate of: GP-36-09 COMP	GP-36-09 COMP	GP-36-09 COMP
Sample Interval (ft):	(0-5)	(0-5)	(5-10)	(29,5-30)
Sample Date:	6/10/2009	6/10/2009	6/10/2009	6/10/2009
Soil Results (mg/kg)				
BTEX	ND	ND	ND	ND
PAHs				
Benzo[a]pyrene	NX	1,9 J	ND	ND
Physical Observations	none	none	none	none
Total Depth (ft)	30,0			

Sample Name:	GP-15-04	GP-15-04
Sample Interval (ft):	(13-15)	(24-25)
Sample Date:	11/17/2004	11/17/2004
Soil Results (mg/kg)		
BTEX	NX	ND
PAHs	ND	NX
Physical Observations	none	none
Total Depth (ft)	25,0	

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- APPROXIMATE LOCATION OF HISTORIC STRUCTURE (NOT CONFIRMED)
- CONFIRMED HISTORIC SUBSURFACE STRUCTURE
- STONE RETAINING WALL
- W — WATER LINE
- S — SANITARY SEWER LINE
- E — UNDERGROUND ELECTRICAL LINE
- OH — OVERHEAD ELECTRICAL LINE
- MONITORING WELLS BY CT MALE ASSOCIATES, INC. (LOCATIONS APPROXIMATE)
- SB-04-03 — 2003 SOIL BORING LOCATION
- SB-06-08 — 2008 SOIL BORING LOCATION
- GP-15-04 — 2004 GEOPROBE BORING LOCATION
- GP-21-05 — 2005 GEOPROBE BORING LOCATION
- GP-27-08 — 2008 GEOPROBE BORING LOCATION
- GP-34-09 — 2009 GEOPROBE BORING LOCATION
- mg/kg — MILLIGRAMS PER KILOGRAM
- ft — FEET
- ND — NOT DETECTED
- NX — NO EXCEEDANCE
- J — ESTIMATED VALUE
- U — INDICATES NOT DETECTED TO THE REPORTING LIMIT

Constituents	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL
Soil Results (mg/kg)	
BTEX	
Xylene, Total	500
PAHs	
Acenaphthylene	500
Fluoranthene	500
Fluorene	500
Naphthalene	500
Phenanthrene	500
Pyrene	500
Benz[a]anthracene	5,6
Benzo[a]pyrene	1
Benzo[b]fluoranthene	5,6
Benzo[k]fluoranthene	56
Chrysene	56
Dibenz[a,h]anthracene	0,56
Indeno[1,2,3-cd]pyrene	5,6
Total Cyanide	
Cyanide, Total	27

NOTES:

1. BASE MAP IS REPRESENTATIVE OF SITE CONDITIONS AT THE TIME OF THE REMEDIAL INVESTIGATION, PRIOR TO THE REMEDIAL ACTION.
2. TOTAL CYANIDE WAS NOT ANALYZED IF IT IS NOT PRESENT IN THE ANALYTICAL BOX.

SOURCES:

1. *MAP BASED ON MAP NO. 2004-06-03: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS*, DATED FEBRUARY 10, 2004, SCALE: 1" = 20', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
2. 2008 INVESTIGATION BASED ON *MAP NO. 2009-01-05: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS*, UPDATED FEBRUARY 2, 2009, SCALE: 1" = 10', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
3. LANDS OF THE CITY OF SARATOGA SPRINGS FROM BOOK 356 OF DEEDS, PAGE 200.

0 10 20
SCALE, FEET

SITE MANAGEMENT PLAN
SARATOGA SPRINGS (LAKE AVE.) FORMER MGP
SARATOGA SPRINGS, NEW YORK

nationalgrid

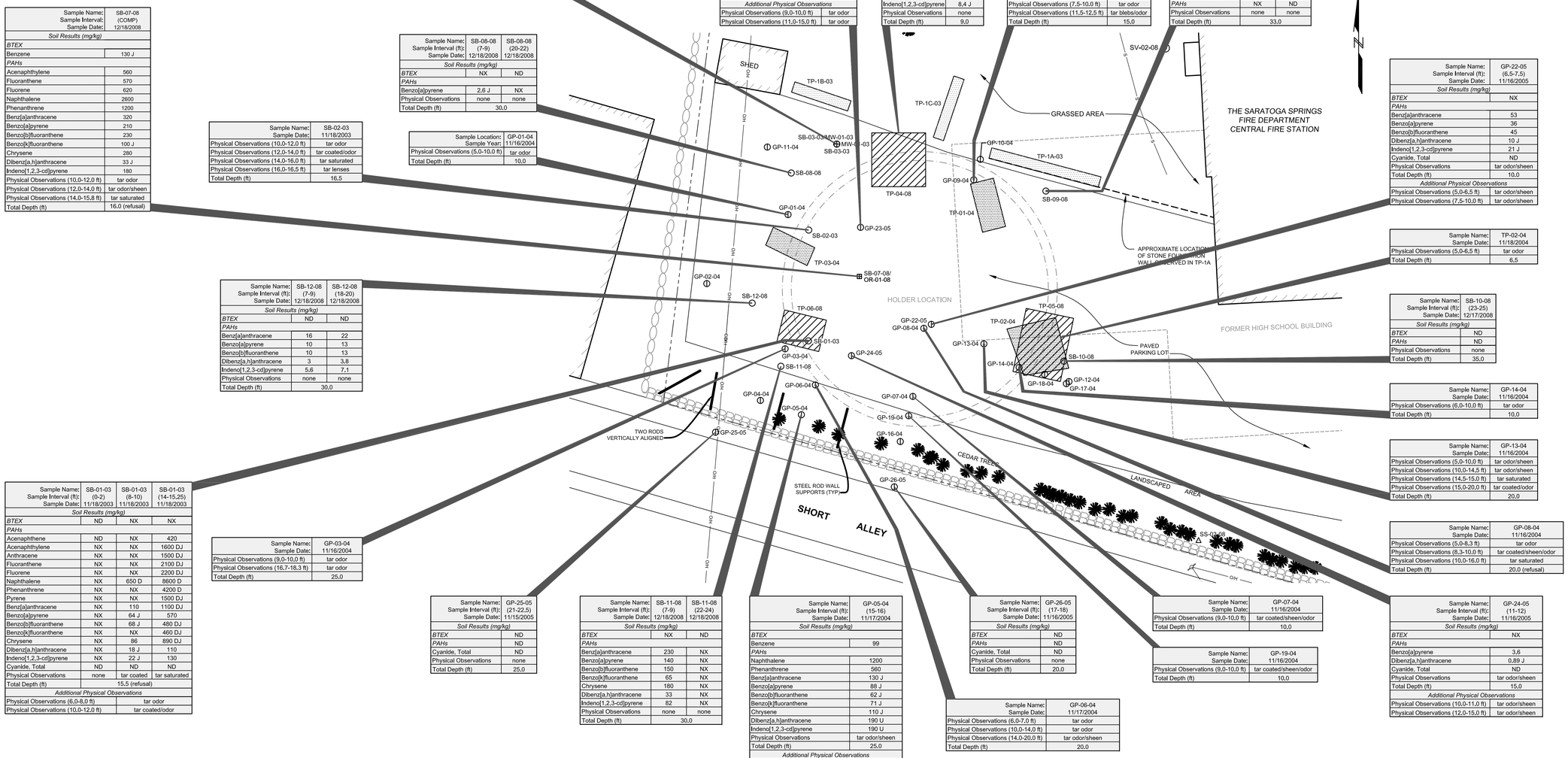
PROJECT 034400-2-2006

GEI Consultants
455 WINDING BROOK DRIVE
SUITE 201
GLASTONBURY, CONNECTICUT 06033

SUBSURFACE SOIL RESULTS AND PHYSICAL OBSERVATIONS IN VICINITY OF FORMER GAS WORKS (mg/kg)

November 2012 Figure 4

I:\Project\National Grid_formerly NIMO\Saratoga Springs\034400\Site Management Plan\ F4-5.dwg \Nov 06, 2012



Sample Name:	SB-07-08
Sample Interval:	(COMP)
Sample Date:	12/18/2008
Soil Results (mg/kg)	
BTEX	
Benzene	130 J
PAHs	
Acenaphthylene	560
Fluoranthene	570
Fluorene	620
Naphthalene	2600
Phenanthrene	1200
Benz[a]anthracene	320
Benzo[a]pyrene	210
Benzo[b]fluoranthene	230
Benzo[k]fluoranthene	100 J
Chrysene	280
Dibenz[a,h]anthracene	33 J
Indeno[1,2,3-cd]pyrene	180
Physical Observations (10,0-12,0 ft)	tar odor
Physical Observations (12,0-14,0 ft)	tar odor/sheen
Physical Observations (14,0-15,8 ft)	tar saturated
Total Depth (ft)	16,0 (refusal)

Sample Name:	SB-03-03	SB-03-03	SB-03-03	SB-03-03
Sample Interval (ft):	(10-12)	(12-14)	(24-26)	(28-30)
Sample Date:	11/19/2003	11/19/2003	11/19/2003	11/19/2003
Soil Results (mg/kg)				
BTEX	NX	NA	NX	NX
PAHs	ND	NA	NX	NX
Cyanide, Total	ND	NA	ND	ND
Physical Observations	none	none	tar odor	none
Total Depth (ft)	30,0			
Additional Physical Observations				
Physical Observations (16,0-18,0 ft)	tar odor		sheen	
Physical Observations (23,0-24,0 ft)	tar odor		sheen	

Sample Name:	GP-23-05	Duplicate of:
Sample Interval (ft):	(10-11)	GP-23-05
Sample Date:	11/16/2005	(10-11) 11/16/2005
Soil Results (mg/kg)		
BTEX	NX	NX
PAHs		
Benz[a]anthracene	24	22
Benzo[a]pyrene	15	15
Benzo[b]fluoranthene	11	19
Dibenz[a,h]anthracene	3 J	2,3 J
Indeno[1,2,3-cd]pyrene	7,1 J	6,1 J
Cyanide, Total	NX	ND
Physical Observations	tar odor	tar odor
Total Depth (ft)	15,0	
Additional Physical Observations		
Physical Observations (9,0-10,0 ft)	tar odor	
Physical Observations (11,0-15,0 ft)	tar odor	

Sample Name:	TP-04-08
Sample Interval (ft):	(2)
Sample Date:	12/16/2008
Soil Results (mg/kg)	
BTEX	ND
PAHs	
Benz[a]anthracene	18
Benzo[a]pyrene	15 J
Benzo[b]fluoranthene	15 J
Dibenz[a,h]anthracene	2,9 J
Indeno[1,2,3-cd]pyrene	8,4 J
Physical Observations	none
Total Depth (ft)	9,0

Sample Name:	GP-09-04
Sample Date:	11/16/2004
Physical Observations (7,5-10,0 ft)	tar odor
Physical Observations (11,5-12,5 ft)	tar blebs/odor
Total Depth (ft)	15,0

Sample Name:	SB-09-08	SB-09-08
Sample Interval (ft):	(26-27)	(29-30)
Sample Date:	12/18/2008	12/18/2008
Soil Results (mg/kg)		
BTEX	ND	ND
PAHs	NX	ND
Physical Observations	none	none
Total Depth (ft)	33,0	

Sample Name:	SB-08-08	SB-08-08
Sample Interval (ft):	(7-9)	(20-22)
Sample Date:	12/18/2008	12/18/2008
Soil Results (mg/kg)		
BTEX	NX	ND
PAHs		
Benzo[a]pyrene	2,6 J	NX
Physical Observations	none	none
Total Depth (ft)	30,0	

Sample Name:	SB-02-03
Sample Date:	11/18/2003
Physical Observations (10,0-12,0 ft)	tar odor
Physical Observations (12,0-14,0 ft)	tar coated/odor
Physical Observations (14,0-16,0 ft)	tar saturated
Physical Observations (16,0-16,5 ft)	tar lenses
Total Depth (ft)	16,5

Sample Location:	GP-01-04
Sample Year:	11/16/2004
Physical Observations (5,0-10,0 ft)	tar odor
Total Depth (ft)	10,0

Sample Name:	GP-22-05
Sample Interval (ft):	(6,5-7,5)
Sample Date:	11/16/2005
Soil Results (mg/kg)	
BTEX	NX
PAHs	
Benz[a]anthracene	53
Benzo[a]pyrene	36
Benzo[b]fluoranthene	45
Dibenz[a,h]anthracene	10 J
Indeno[1,2,3-cd]pyrene	21 J
Cyanide, Total	ND
Physical Observations	tar odor/sheen
Total Depth (ft)	10,0
Additional Physical Observations	
Physical Observations (5,0-6,5 ft)	tar odor/sheen
Physical Observations (7,5-10,0 ft)	tar odor/sheen

Sample Name:	TP-02-04
Sample Date:	11/18/2004
Physical Observations (5,0-6,5 ft)	tar odor
Total Depth (ft)	6,5

Sample Name:	SB-10-08
Sample Interval (ft):	(23-25)
Sample Date:	12/17/2008
Soil Results (mg/kg)	
BTEX	ND
PAHs	ND
Physical Observations	none
Total Depth (ft)	35,0

Sample Name:	GP-14-04
Sample Date:	11/16/2004
Physical Observations (6,0-10,0 ft)	tar odor
Total Depth (ft)	10,0

Sample Name:	GP-13-04
Sample Date:	11/16/2004
Physical Observations (5,0-10,0 ft)	tar odor/sheen
Physical Observations (10,0-14,5 ft)	tar odor/sheen
Physical Observations (14,5-15,0 ft)	tar saturated
Physical Observations (15,0-20,0 ft)	tar coated/odor
Total Depth (ft)	20,0

Sample Name:	GP-08-04
Sample Date:	11/16/2004
Physical Observations (5,0-8,3 ft)	tar odor
Physical Observations (8,3-10,0 ft)	tar coated/sheen/odor
Physical Observations (10,0-16,0 ft)	tar saturated
Total Depth (ft)	20,0 (refusal)

Sample Name:	SB-12-08	SB-12-08
Sample Interval (ft):	(7-9)	(18-20)
Sample Date:	12/18/2008	12/18/2008
Soil Results (mg/kg)		
BTEX	ND	ND
PAHs		
Benz[a]anthracene	16	22
Benzo[a]pyrene	10	13
Benzo[b]fluoranthene	10	13
Dibenz[a,h]anthracene	3	3,8
Indeno[1,2,3-cd]pyrene	5,6	7,1
Physical Observations	none	none
Total Depth (ft)	30,0	

Sample Name:	SB-01-03	SB-01-03	SB-01-03
Sample Interval (ft):	(0-2)	(8-10)	(14-15,25)
Sample Date:	11/18/2003	11/18/2003	11/18/2003
Soil Results (mg/kg)			
BTEX	ND	NX	NX
PAHs			
Acenaphthene	ND	NX	420
Acenaphthylene	NX	NX	1600 DJ
Anthracene	NX	NX	1500 DJ
Fluoranthene	NX	NX	2100 DJ
Fluorene	NX	NX	2200 DJ
Naphthalene	NX	650 D	8600 D
Phenanthrene	NX	NX	4200 D
Pyrene	NX	NX	1500 DJ
Benz[a]anthracene	NX	110	1100 DJ
Benzo[a]pyrene	NX	64 J	570
Benzo[b]fluoranthene	NX	68 J	480 DJ
Benzo[k]fluoranthene	NX	NX	460 DJ
Chrysene	NX	86	890 DJ
Dibenz[a,h]anthracene	NX	18 J	110
Indeno[1,2,3-cd]pyrene	NX	22 J	130
Cyanide, Total	ND	ND	ND
Physical Observations	none	tar coated	tar saturated
Total Depth (ft)	15,5 (refusal)		
Additional Physical Observations			
Physical Observations (6,0-8,0 ft)	tar odor		
Physical Observations (10,0-12,0 ft)	tar coated/odor		

Sample Name:	GP-03-04
Sample Date:	11/16/2004
Physical Observations (16,7-18,3 ft)	tar odor
Total Depth (ft)	25,0

Sample Name:	GP-25-05
Sample Interval (ft):	(21-22,5)
Sample Date:	11/15/2005
Soil Results (mg/kg)	
BTEX	ND
PAHs	ND
Cyanide, Total	ND
Physical Observations	none
Total Depth (ft)	25,0

Sample Name:	SB-11-08	SB-11-08
Sample Interval (ft):	(7-9)	(22-24)
Sample Date:	12/18/2008	12/18/2008
Soil Results (mg/kg)		
BTEX	NX	ND
PAHs		
Benz[a]anthracene	230	NX
Benzo[a]pyrene	140	NX
Benzo[b]fluoranthene	150	NX
Benzo[k]fluoranthene	65	NX
Chrysene	180	NX
Dibenz[a,h]anthracene	33	NX
Indeno[1,2,3-cd]pyrene	82	NX
Physical Observations	none	none
Total Depth (ft)	30,0	

Sample Name:	GP-05-04
Sample Interval (ft):	(15-16)
Sample Date:	11/17/2004
Soil Results (mg/kg)	
BTEX	
Benzene	99
PAHs	
Naphthalene	1200
Phenanthrene	560
Benz[a]anthracene	130 J
Benzo[a]pyrene	88 J
Benzo[b]fluoranthene	62 J
Benzo[k]fluoranthene	71 J
Chrysene	110 J
Dibenz[a,h]anthracene	190 U
Indeno[1,2,3-cd]pyrene	190 U
Physical Observations	tar odor/sheen
Total Depth (ft)	25,0
Additional Physical Observations	
Physical Observations (16,0-20,0 ft)	tar odor/sheen

Sample Name:	GP-26-05
Sample Interval (ft):	(17-18)
Sample Date:	11/16/2005
Soil Results (mg/kg)	
BTEX	ND
PAHs	ND
Cyanide, Total	ND
Physical Observations	none
Total Depth (ft)	20,0

Sample Name:	GP-06-04
Sample Date:	11/17/2004
Physical Observations (6,0-7,0 ft)	tar odor
Physical Observations (10,0-14,0 ft)	tar odor
Physical Observations (14,0-20,0 ft)	tar odor/sheen
Total Depth (ft)	20,0

Sample Name:	GP-07-04
Sample Date:	11/16/2004
Physical Observations (9,0-10,0 ft)	tar coated/sheen/odor
Total Depth (ft)	10,0

Sample Name:	GP-19-04
Sample Date:	11/16/2004
Physical Observations (9,0-10,0 ft)	tar coated/sheen/odor
Total Depth (ft)	10,0

Sample Name:	GP-24-05
Sample Interval (ft):	(11-12)
Sample Date:	11/16/2005
Soil Results (mg/kg)	
BTEX	NX
PAHs	
Benzo[a]pyrene	3,6
Dibenz[a,h]anthracene	0,89 J
Cyanide, Total	ND
Physical Observations	tar odor/sheen
Total Depth (ft)	15,0
Additional Physical Observations	
Physical Observations (10,0-11,0 ft)	tar odor/sheen
Physical Observations (12,0-15,0 ft)	tar odor/sheen

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- APPROXIMATE LOCATION OF HISTORIC STRUCTURE (NOT CONFIRMED)
- CONFIRMED HISTORIC SUBSURFACE STRUCTURE
- STONE RETAINING WALL
- BRICK WALL
- S — SANITARY SEWER LINE
- O/H — OVERHEAD ELECTRICAL LINE
- MONITORING WELLS BY CT MALE ASSOCIATES, INC. (LOCATIONS APPROXIMATE)
- SB-01-03 — 2003 SOIL BORING LOCATION
- SB-08-08 — 2008 SOIL BORING LOCATION
- GP-01-04 — 2004 GEOPROBE BORING LOCATION
- GP-22-05 — 2005 GEOPROBE BORING LOCATION
- GP-27-08 — 2008 GEOPROBE BORING LOCATION
- TP-1B-03 — 2003 GEI TEST PIT LOCATION
- TP-01-04 — 2004 GEI TEST PIT LOCATION
- TP-04-08 — 2008 GEI TEST PIT LOCATION
- mg/kg — MILLIGRAMS PER KILOGRAM
- ft — FEET
- ND — NOT DETECTED
- NX — NO EXCEEDANCE
- D — DILUTE SAMPLE
- J — ESTIMATED VALUE
- U — INDICATES NOT DETECTED TO THE REPORTING LIMIT

Constituents	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL
Soil Results (mg/kg)	
BTEX	
Benzene	44
PAHs	
Acenaphthene	500
Acenaphthylene	500
Anthracene	500
Fluoranthene	500
Fluorene	500
Naphthalene	500
Phenanthrene	500
Pyrene	500
Benz[a]anthracene	5,6
Benzo[a]pyrene	1
Benzo[b]fluoranthene	5,6
Benzo[k]fluoranthene	56
Chrysene	56
Dibenz[a,h]anthracene	0,56
Indeno[1,2,3-cd]pyrene	5,6
Total Cyanide	
Cyanide, Total	27

NOTES:

1. BASE MAP IS REPRESENTATIVE OF SITE CONDITIONS AT THE TIME OF THE REMEDIAL INVESTIGATION, PRIOR TO THE REMEDIAL ACTION.
2. TOTAL CYANIDE WAS NOT ANALYZED IF IT IS NOT PRESENT IN THE ANALYTICAL BOX.
3. THERE WERE NO SAMPLES COLLECTED OR PHYSICAL OBSERVATIONS FOR LOCATIONS THAT DO NOT HAVE AN ANALYTICAL BOX.

SOURCES:

1. MAP BASED ON *MAP NO. 2004-06-03: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS*, DATED FEBRUARY 10, 2004, SCALE: 1" = 20', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
2. 2008 INVESTIGATION BASED ON *MAP NO. 2009-01-05: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS*, UPDATED FEBRUARY 2, 2009, SCALE: 1" = 10', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
3. LANDS OF THE CITY OF SARATOGA SPRINGS FROM BOOK 356 OF DEEDS, PAGE 200.

0 10 20
SCALE, FEET

SITE MANAGEMENT PLAN
SARATOGA SPRINGS (LAKE AVE.) FORMER MGP
SARATOGA SPRINGS, NEW YORK

nationalgrid

PROJECT 034400-2-2006

GEI Consultants
455 WINDING BROOK DRIVE
SUITE 201
GLASTONBURY, CONNECTICUT 06033

SUBSURFACE SOIL RESULTS AND PHYSICAL OBSERVATIONS IN VICINITY OF FORMER GAS HOLDER (mg/kg)

November 2012 Figure 5

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Sample Name:	SB-03-03	SB-03-03	SB-03-03	SB-03-03
Sample Interval (ft):	(10-12)	(12-14)	(24-26)	(28-30)
Sample Date:	11/19/2003	11/19/2003	11/19/2003	11/19/2003
Soil Results (mg/kg)				
BTEX	NX	NA	NX	NX
PAHs				
Benzo[a]pyrene	3.6 U	NA	NX	ND
Dibenz[a,h]anthracene	3.6 U	NA	NX	ND
Cyanide, Total	ND	NA	ND	ND
Physical Observations	none	NA	tar odor	none
Total Depth (ft)	30.0			

Sample Name:	GP-31-08
Sample Interval (ft):	(8-10)
Sample Date:	12/16/2008
Soil Results (mg/kg)	
BTEX	ND
PAHs	
Fluoranthene	510
Phenanthrene	790
Benz[a]anthracene	240
Benzo[a]pyrene	140
Benzo[b]fluoranthene	180
Benzo[k]fluoranthene	80
Chrysene	210
Dibenz[a,h]anthracene	28 J
Indeno[1,2,3-cd]pyrene	120
Physical Observations	none
Total Depth (ft)	20.0

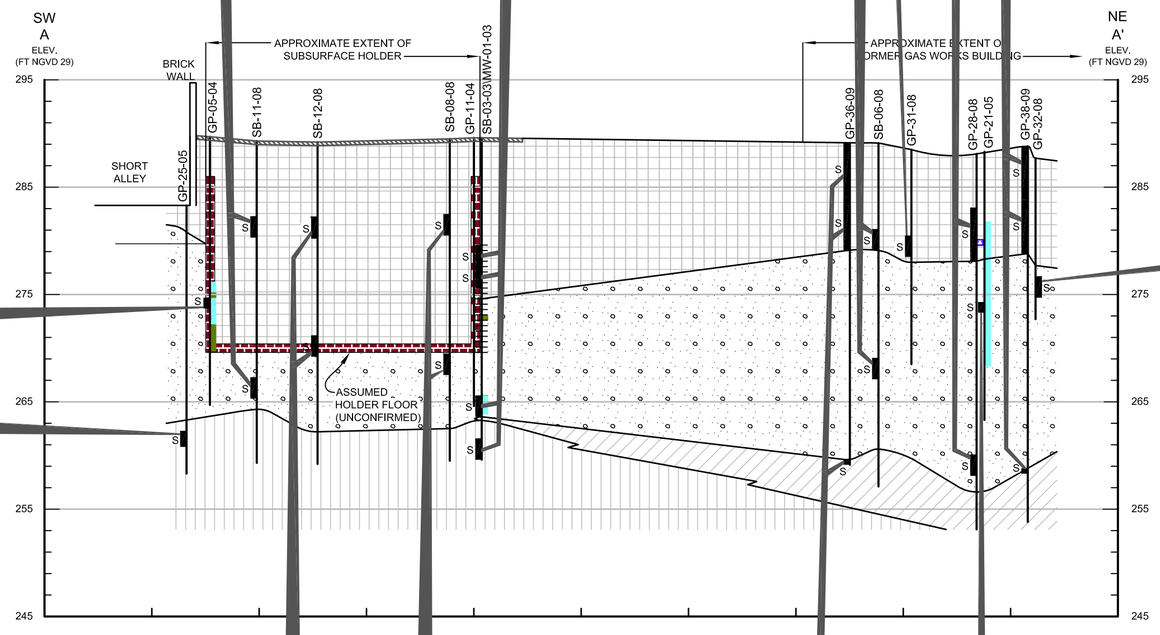
Sample Name:	GP-28-08	GP-28-08	Duplicate of:
Sample Interval (ft):	(5-10)	(28-30)	GP-28-08
Sample Date:	12/15/2008	12/15/2008	(28-30)
			12/15/2008
Soil Results (mg/kg)			
BTEX	NX	ND	ND
PAHs			
Benz[a]anthracene	210	ND	ND
Benzo[a]pyrene	110 J	ND	ND
Benzo[b]fluoranthene	160 J	ND	ND
Benzo[k]fluoranthene	61 J	ND	ND
Chrysene	190	ND	ND
Dibenz[a,h]anthracene	34 J	ND	ND
Indeno[1,2,3-cd]pyrene	62 J	ND	ND
Physical Observations	petroleum odor	none	none
Total Depth (ft)	35.0		

Sample Name:	SB-11-08	SB-11-08
Sample Interval (ft):	(7-9)	(22-24)
Sample Date:	12/18/2008	12/18/2008
Soil Results (mg/kg)		
BTEX	NX	ND
PAHs		
Benz[a]anthracene	230	NX
Benzo[a]pyrene	140	NX
Benzo[b]fluoranthene	150	NX
Benzo[k]fluoranthene	65	NX
Chrysene	180	NX
Dibenz[a,h]anthracene	33	NX
Indeno[1,2,3-cd]pyrene	82	NX
Physical Observations	none	none
Total Depth (ft)	30.0	

Sample Name:	SB-06-08	SB-06-08
Sample Interval (ft):	(8-10)	(20-22)
Sample Date:	12/18/2008	12/18/2008
Soil Results (mg/kg)		
BTEX	NX	NX
PAHs	NX	ND
Physical Observations	none	none
Total Depth (ft)	32.0	

Sample Name:	GP-38-09 COMP	GP-38-09 COMP	GP-38-09
Sample Interval (ft):	(0-5)	(5-10)	(30-30.5)
Sample Date:	6/10/2009	6/10/2009	6/10/2009
Soil Results (mg/kg)			
BTEX	ND	ND	ND
PAHs	NX	NX	ND
Physical Observations	none	none	none
Total Depth (ft)	35.0		

Sample Name:	GP-05-04
Sample Interval (ft):	(15-16)
Sample Date:	11/17/2004
Soil Results (mg/kg)	
BTEX	
Benzene	99
PAHs	
Naphthalene	1200
Phenanthrene	560
Benz[a]anthracene	130 J
Benzo[a]pyrene	88 J
Benzo[b]fluoranthene	62 J
Benzo[k]fluoranthene	71 J
Chrysene	110 J
Dibenz[a,h]anthracene	190 U
Indeno[1,2,3-cd]pyrene	190 U
Physical Observations	tar odor/sheen
Total Depth (ft)	25.0



Sample Name:	GP-32-08
Sample Interval (ft):	(11-13)
Sample Date:	12/16/2008
Soil Results (mg/kg)	
BTEX	ND
PAHs	ND
Physical Observations	none
Total Depth (ft)	15.0

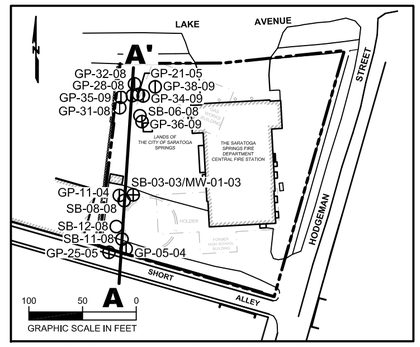
Sample Name:	GP-25-05
Sample Interval (ft):	(21-22.5)
Sample Date:	11/15/2005
Soil Results (mg/kg)	
BTEX	ND
PAHs	ND
Cyanide, Total	ND
Physical Observations	none
Total Depth (ft)	25.0

Sample Name:	SB-12-08	SB-12-08
Sample Interval (ft):	(7-9)	(18-20)
Sample Date:	12/18/2008	12/18/2008
Soil Results (mg/kg)		
BTEX	ND	ND
PAHs		
Benz[a]anthracene	16	22
Benzo[a]pyrene	10	13
Benzo[b]fluoranthene	10	13
Dibenz[a,h]anthracene	3	3.8
Indeno[1,2,3-cd]pyrene	5.6	7.1
Physical Observations	none	none
Total Depth (ft)	30.0	

Sample Name:	SB-08-08	SB-08-08
Sample Interval (ft):	(7-9)	(20-22)
Sample Date:	12/18/2008	12/18/2008
Soil Results (mg/kg)		
BTEX	NX	ND
PAHs		
Benzo[a]pyrene	2.6 J	NX
Physical Observations	none	none
Total Depth (ft)	30.0	

Sample Name:	GP-21-05
Sample Interval (ft):	(14-15)
Sample Date:	11/15/2005
Soil Results (mg/kg)	
BTEX	
Xylene, Total	760
PAHs	
Acenaphthylene	610
Fluoranthene	670
Fluorene	670
Naphthalene	4300
Phenanthrene	1500
Pyrene	640 J
Benz[a]anthracene	370
Benzo[a]pyrene	200 J
Benzo[b]fluoranthene	280 J
Benzo[k]fluoranthene	110 J
Chrysene	290 J
Dibenz[a,h]anthracene	310 U
Indeno[1,2,3-cd]pyrene	83 J
Cyanide, Total	NX
Physical Observations	tar odor
Total Depth (ft)	25.0

Sample Name:	GP-36-09 COMP	Duplicate of: GP-36-09 COMP	GP-36-09 COMP	GP-36-09 COMP
Sample Interval (ft):	(0-5)	(0-5)	(5-10)	(29.5-30)
Sample Date:	6/10/2009	6/10/2009	6/10/2009	6/10/2009
Soil Results (mg/kg)				
BTEX	ND	ND	ND	ND
PAHs				
Benzo[a]pyrene	NX	1.9 J	ND	ND
Physical Observations	none	none	none	none
Total Depth (ft)	30.0			



CROSS SECTION LOCATION MAP

LEGEND

- SB-08-08 — SOIL BORING IDENTIFICATION
- S — ANALYTICAL SOIL SAMPLE INTERVAL (mg/kg)
- STRATUM BOUNDARY
- ASPHALT
- BRICK

GEOLOGY

- FILL
- SAND
- SILT
- CLAY

PHYSICAL OBSERVATIONS

- TAR SATURATED
- BLEBS, GLOBS, LENSES, COATINGS AND TAR/NAPTHA ODORS
- TAR STAINING, SHEEN, AND TAR/NAPHTHA ODORS
- TAR/NAPHTHALENE-LIKE ODORS
- PETROLEUM ODORS

ANALYTICAL BOX NOTES

NA	NOT ANALYZED
ND	NOT DETECTED
NX	NO EXCEEDANCE
J	ESTIMATED VALUE
U	INDICATES NOT DETECTED TO THE REPORTING LIMIT
mg/kg	MILLIGRAMS/KILOGRAM OR PARTS PER MILLION (ppm)
ft	FEET
COMPOSITE	COMPOSITE SAMPLE OFF AUGER FLIGHTS

Constituents	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL
Soil Results (mg/kg)	
BTEX	
Benzene	44
Xylene, Total	500
PAHs	
Acenaphthylene	500
Fluoranthene	500
Fluorene	500
Naphthalene	500
Phenanthrene	500
Pyrene	500
Benz[a]anthracene	5.6
Benzo[a]pyrene	1
Benzo[b]fluoranthene	5.6
Benzo[k]fluoranthene	56
Chrysene	56
Dibenz[a,h]anthracene	0.56
Indeno[1,2,3-cd]pyrene	5.6
Total Cyanide	
Cyanide, Total	27

20 10 0 20
HORIZONTAL SCALE IN FEET

10 5 0 10
VERTICAL SCALE IN FEET

VERTICAL EXAGGERATION = 2X

NOTES:

1. HOLDER LOCATION IS EAST OF CROSS SECTION LOCATION. HOLDER LIMITS AND APPROXIMATE EXTENT OF FORMER GAS WORKS BUILDING ARE PROJECTED ONTO CROSS SECTION FOR REFERENCE PURPOSES.
2. BASE MAP IS REPRESENTATIVE OF SITE CONDITIONS AT THE TIME OF THE REMEDIAL INVESTIGATION, PRIOR TO THE REMEDIAL ACTION.

SITE MANAGEMENT PLAN
SARATOGA SPRINGS (LAKE AVENUE) FORMER MGP
SARATOGA SPRINGS, NEW YORK

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455 WINDING BROOK DRIVE
SUITE 201
GLASTONBURY, CONNECTICUT 06033

GEOLOGIC CROSS SECTION A-A'

November 2012

Figure 6

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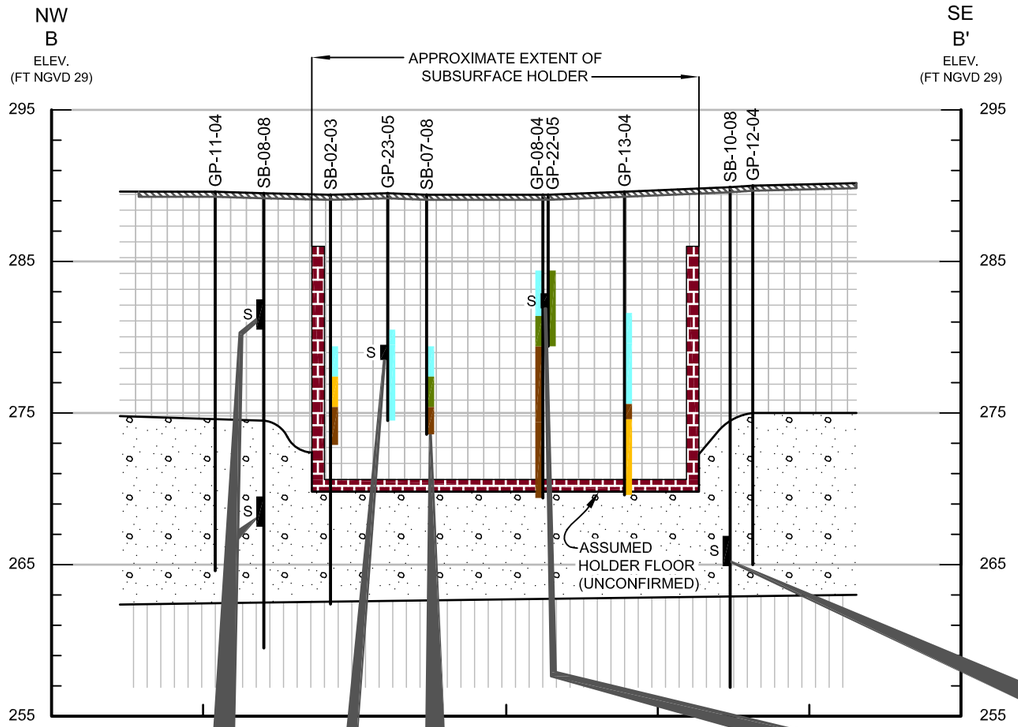


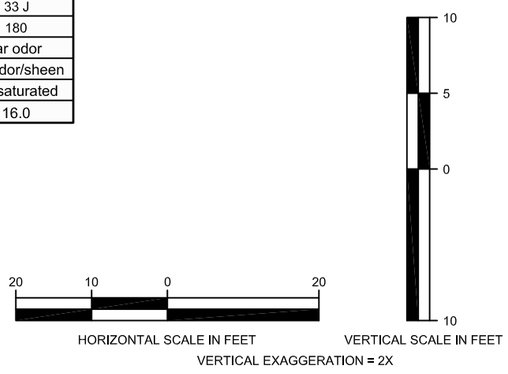
Sample Name:	SB-10-08
Sample Interval (ft):	(23-25)
Sample Date:	12/17/2008
Soil Results (mg/kg)	
BTEX	ND
PAHs	ND
Physical Observations	none
Total Depth (ft)	35.0

Sample Name:	SB-08-08	SB-08-08
Sample Interval (ft):	(7-9)	(20-22)
Sample Date:	12/18/2008	12/18/2008
Soil Results (mg/kg)		
BTEX	NX	ND
PAHs		
Benzo[a]pyrene	2.6 J	NX
Physical Observations	none	none
Total Depth (ft)	30.0	

Sample Name:	SB-07-08
Sample Interval:	COMPOSITE
Sample Date:	12/18/2008
Soil Results (mg/kg)	
BTEX	
Benzene	130 J
PAHs	
Acenaphthylene	560
Fluoranthene	570
Fluorene	620
Naphthalene	2600
Phenanthrene	1200
Benz[a]anthracene	320
Benzo[a]pyrene	210
Benzo[b]fluoranthene	230
Benzo[k]fluoranthene	100 J
Chrysene	280
Dibenz[a,h]anthracene	33 J
Indeno[1,2,3-cd]pyrene	180
Physical Observations (10-12 ft)	tar odor
Physical Observations (12-14 ft)	tar odor/sheen
Physical Observations (14-15.8 ft)	tar saturated
Total Depth (ft)	16.0

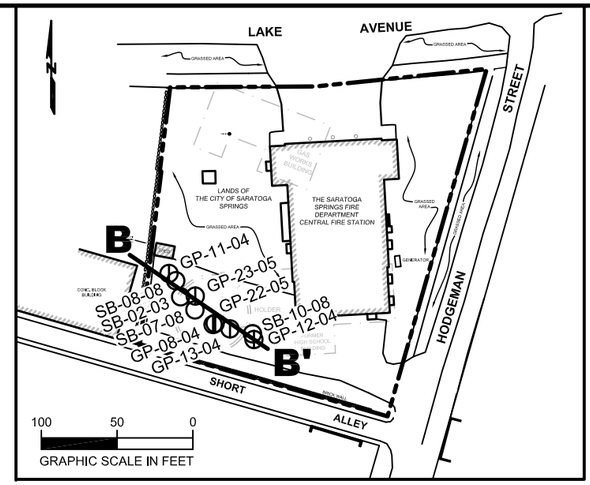
Sample Name:	GP-22-05
Sample Interval (ft):	(6.5-7.5)
Sample Date:	11/16/2005
Soil Results (mg/kg)	
BTEX	NX
PAHs	
Benz[a]anthracene	53
Benzo[a]pyrene	36
Benzo[b]fluoranthene	45
Dibenz[a,h]anthracene	10 J
Indeno[1,2,3-cd]pyrene	21 J
Cyanide, Total	ND
Physical Observations	tar odor/sheen
Total Depth (ft)	10.0

Sample Name:	GP-23-05	Duplicate of: GP-23-05
Sample Interval (ft):	(10-11)	(10-11)
Sample Date:	11/16/2005	11/16/2005
Soil Results (mg/kg)		
BTEX	NX	NX
PAHs		
Benz[a]anthracene	24	22
Benzo[a]pyrene	15	15
Benzo[b]fluoranthene	11	19
Dibenz[a,h]anthracene	3 J	2.3 J
Indeno[1,2,3-cd]pyrene	7.1 J	6.1 J
Cyanide, Total	NX	ND
Physical Observations	tar odor	tar odor
Total Depth (ft)	15.0	



NOTES:

1. BASE MAP IS REPRESENTATIVE OF SITE CONDITIONS AT THE TIME OF THE REMEDIAL INVESTIGATION, PRIOR TO THE REMEDIAL ACTION.
2. MATERIAL IN THE FORMER GAS HOLDER FOUNDATION WAS REMOVED AS PART OF THE REMEDIAL ACTION. SEE FIGURE 12 OF THE SITE MANAGEMENT PLAN



CROSS SECTION LOCATION MAP

LEGEND

SB-08-08
S
SOIL BORING IDENTIFICATION
ANALYTICAL SOIL SAMPLE INTERVAL (mg/kg)
STRATUM BOUNDARY
ASPHALT
BRICK

GEOLOGY
FILL
SAND
SILT
CLAY

PHYSICAL OBSERVATIONS
TAR SATURATED
BLEBS, GLOBS, LENSES, COATINGS AND TAR/NAPTHA ODORS
TAR STAINING, SHEEN, AND TAR/NAPHTHA ODORS
TAR/NAPHTHALENE-LIKE ODORS
PETROLEUM ODORS

ANALYTICAL BOX NOTES

NA	NOT ANALYZED
ND	NOT DETECTED
NX	NO EXCEEDANCE
J	ESTIMATED VALUE
U	INDICATES NOT DETECTED TO THE REPORTING LIMIT
mg/kg	MILLIGRAMS/KILOGRAM OR PARTS PER MILLION (ppm)
ft	FEET
COMPOSITE	COMPOSITE SAMPLE OFF AUGER FLIGHTS

Constituents	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL
Soil Results (mg/kg)	
BTEX	
Benzene	44
PAHs	
Acenaphthene	500
Acenaphthylene	500
Fluoranthene	500
Fluorene	500
Naphthalene	500
Phenanthrene	500
Benz[a]anthracene	5.6
Benzo[a]pyrene	1
Benzo[b]fluoranthene	5.6
Benzo[k]fluoranthene	56
Chrysene	56
Dibenz[a,h]anthracene	0.56
Indeno[1,2,3-cd]pyrene	5.6
Total Cyanide	
Cyanide, Total	27

SITE MANAGEMENT PLAN
SARATOGA SPRINGS (LAKE AVE.) FORMER MGP
SARATOGA SPRINGS, NEW YORK

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GEOLOGIC CROSS SECTION B-B'

Project 034400-2-2006 | November 2012 | Figure 7

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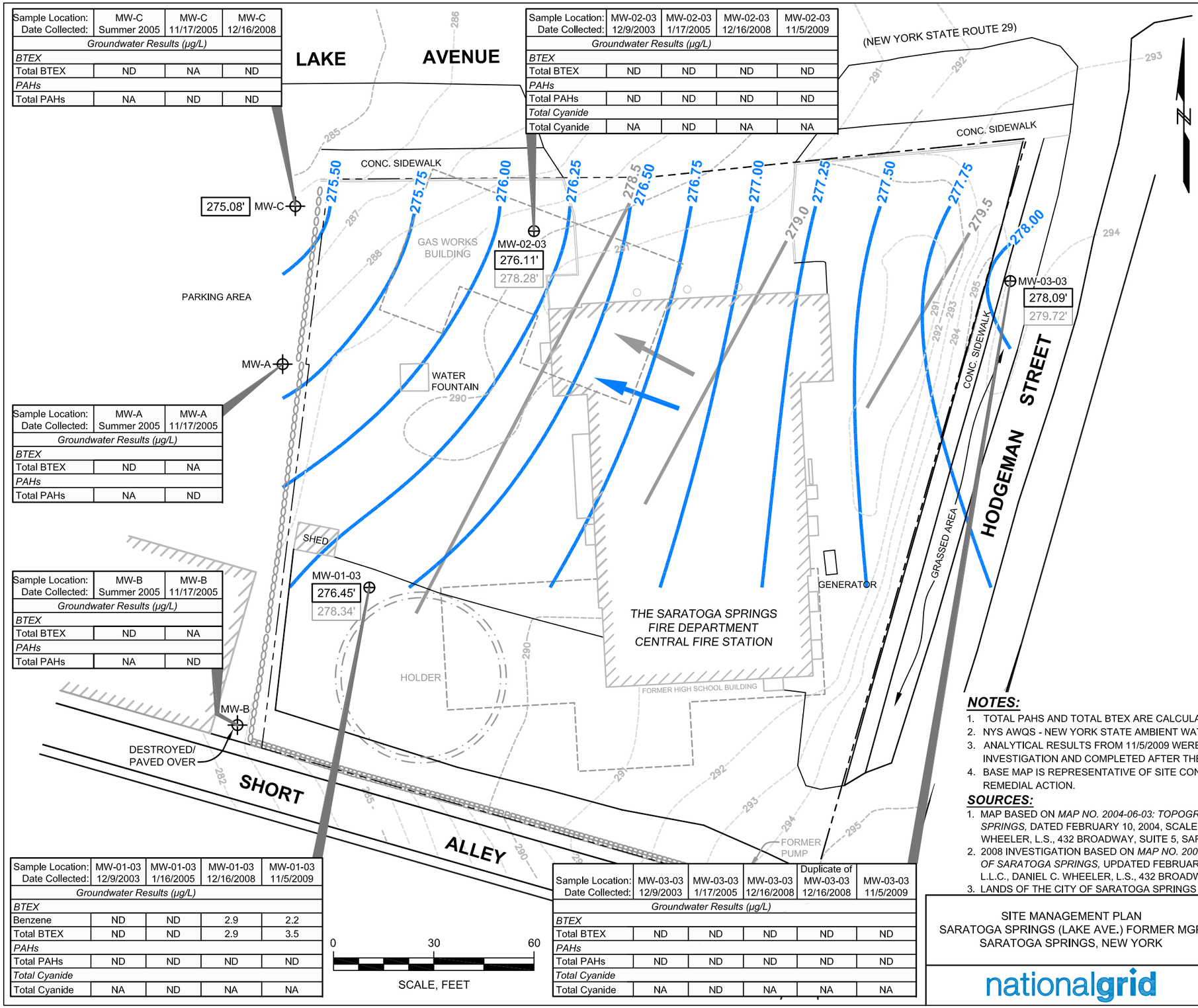

Sample Location: / Date Collected:	MW-C Summer 2005	MW-C 11/17/2005	MW-C 12/16/2008
Groundwater Results (µg/L)			
BTEX			
Total BTEX	ND	NA	ND
PAHs			
Total PAHs	NA	ND	ND

Sample Location: / Date Collected:	MW-02-03 12/9/2003	MW-02-03 1/17/2005	MW-02-03 12/16/2008	MW-02-03 11/5/2009
Groundwater Results (µg/L)				
BTEX				
Total BTEX	ND	ND	ND	ND
PAHs				
Total PAHs	ND	ND	ND	ND
Total Cyanide				
Total Cyanide	NA	ND	NA	NA

Sample Location: / Date Collected:	MW-A Summer 2005	MW-A 11/17/2005
Groundwater Results (µg/L)		
BTEX		
Total BTEX	ND	NA
PAHs		
Total PAHs	NA	ND

Sample Location: / Date Collected:	MW-B Summer 2005	MW-B 11/17/2005
Groundwater Results (µg/L)		
BTEX		
Total BTEX	ND	NA
PAHs		
Total PAHs	NA	ND

Sample Location: / Date Collected:	MW-01-03 12/9/2003	MW-01-03 1/16/2005	MW-01-03 12/16/2008	MW-01-03 11/5/2009
Groundwater Results (µg/L)				
BTEX				
Benzene	ND	ND	2.9	2.2
Total BTEX	ND	ND	2.9	3.5
PAHs				
Total PAHs	ND	ND	ND	ND
Total Cyanide				
Total Cyanide	NA	ND	NA	NA

Sample Location: / Date Collected:	MW-03-03 12/9/2003	MW-03-03 1/17/2005	MW-03-03 12/16/2008	Duplicate of MW-03-03 12/16/2008	MW-03-03 11/5/2009
Groundwater Results (µg/L)					
BTEX					
Total BTEX	ND	ND	ND	ND	ND
PAHs					
Total PAHs	ND	ND	ND	ND	ND
Total Cyanide					
Total Cyanide	NA	ND	NA	NA	NA

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- APPROXIMATE LOCATION OF HISTORIC STRUCTURE (NOT CONFIRMED)
- CONFIRMED HISTORIC SUBSURFACE STRUCTURE
- STONE RETAINING WALL
- BRICK WALL
- 291 — GROUND SURFACE CONTOUR (FT)
- MW-01-03 — 2003 MONITORING WELL LOCATION
- MW-A — MONITORING WELLS BY CT MALE ASSOC., INC. (LOCATIONS APPROXIMATE)
- 278.09' — GROUNDWATER ELEVATION - 2008 (FEET)
- 277.00 — GROUNDWATER ELEVATION CONTOUR - 2008 (FEET)
- INFERRED GROUNDWATER FLOW DIRECTION - 2008
- 279.72' — GROUNDWATER ELEVATION - 2005 (FEET)
- 277.00 — GROUNDWATER ELEVATION CONTOUR - 2005 (FEET)
- INFERRED GROUNDWATER FLOW DIRECTION - 2005

ANALYTICAL BOX NOTES

NA	NOT ANALYZED
NE	NOT ESTABLISHED
ND	NOT DETECTED
µg/L	MICROGRAMS PER LITER
BTEX	BENZENE, TOLUENE, ETHLYBENZENE, AND XYLENES
PAHs	POLYCYCLIC AROMATIC HYDROCARBONS

Sample Location: / Date Collected:	NYS AWQS
Groundwater Results (µg/L)	
BTEX	
Benzene	1.0
Total BTEX	NE
PAHs	
Total PAHs	NE
Total Cyanide	
Total Cyanide	200

NOTES:

1. TOTAL PAHS AND TOTAL BTEX ARE CALCULATED USING DETECTS ONLY.
2. NYS AWQS - NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR GA GROUNDWATER.
3. ANALYTICAL RESULTS FROM 11/5/2009 WERE SAMPLED AS A PART OF THE SUPPLEMENTAL GROUNDWATER INVESTIGATION AND COMPLETED AFTER THE REMEDIAL ACTION.
4. BASE MAP IS REPRESENTATIVE OF SITE CONDITIONS AT THE TIME OF THE REMEDIAL INVESTIGATION, PRIOR TO THE REMEDIAL ACTION.

SOURCES:

1. MAP BASED ON *MAP NO. 2004-06-03: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS,* DATED FEBRUARY 10, 2004, SCALE: 1" = 20', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
2. 2008 INVESTIGATION BASED ON *MAP NO. 2009-01-05: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS,* UPDATED FEBRUARY 2, 2009, SCALE: 1" = 10', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
3. LANDS OF THE CITY OF SARATOGA SPRINGS BOOK 356 OF DEEDS, PAGE 200.

SITE MANAGEMENT PLAN
SARATOGA SPRINGS (LAKE AVE.) FORMER MGP
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GROUNDWATER CONTOUR MAP AND GROUNDWATER RESULTS (µg/L)

Project 034400-2-2006 | November 2012 | Figure 8

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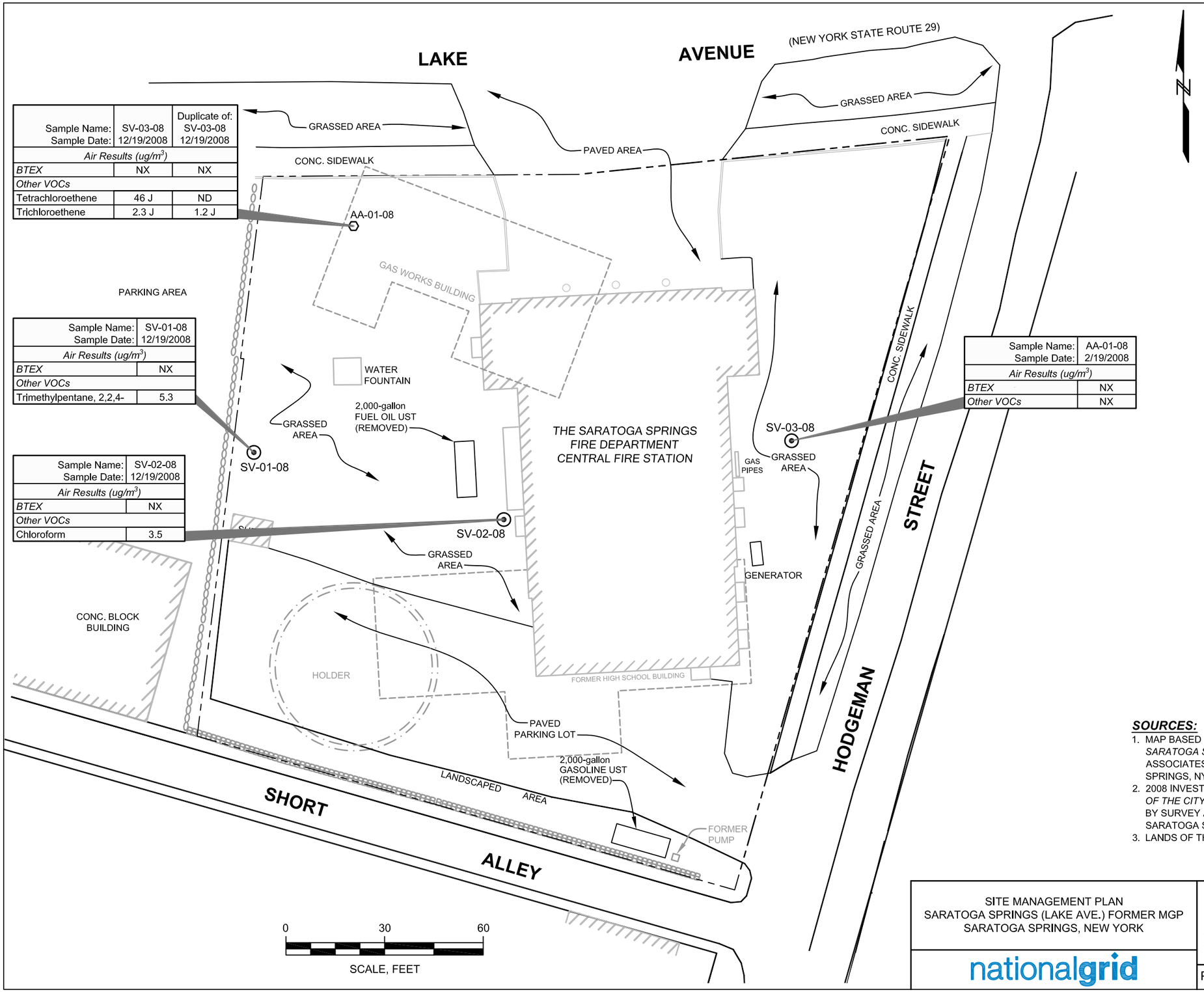

Sample Name:	SV-03-08	Duplicate of: SV-03-08
Sample Date:	12/19/2008	12/19/2008
Air Results (ug/m³)		
BTEX	NX	NX
Other VOCs		
Tetrachloroethene	46 J	ND
Trichloroethene	2.3 J	1.2 J

Sample Name:	SV-01-08
Sample Date:	12/19/2008
Air Results (ug/m³)	
BTEX	NX
Other VOCs	
Trimethylpentane, 2,2,4-	5.3

Sample Name:	SV-02-08
Sample Date:	12/19/2008
Air Results (ug/m³)	
BTEX	NX
Other VOCs	
Chloroform	3.5

Sample Name:	AA-01-08
Sample Date:	2/19/2008
Air Results (ug/m³)	
BTEX	NX
Other VOCs	NX

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- APPROXIMATE LOCATION OF HISTORIC STRUCTURE (NOT CONFIRMED)
- CONFIRMED HISTORIC SUBSURFACE STRUCTURE
- STONE RETAINING WALL
- BRICK WALL
- SV-01-08 — 2008 SOIL VAPOR SAMPLE LOCATION
- AA-01-08 — 2008 AMBIENT AIR SAMPLE LOCATION

ANALYTICAL BOX NOTES

ND	NOT DETECTED
NE	NOT ESTABLISHED
NX	NO EXCEEDANCE
J	ESTIMATED VALUE
ug/m³	MICROGRAMS PER CUBIC METER OF AIR
BTEX	BENZENE, TOLUENE, ETHLYBENZENE, AND XYLENE

Constluents	NYSDOH Background Indoor Air Concentrations Upper Fence[1]
Air Results (ug/m³)	
BTEX	
Total BTEX	NE
Other VOCs	
Chloroform	1.2
Tetrachloroethene	2.5
Trichloroethene	0.5
Trimethylpentane, 2,2,4-	5

NOTES:

1. SOURCE: NYSDOH, OCTOBER 2006. SUMMARY OF INDOOR AND OUTDOOR LEVELS OF VOLATILE ORGANIC COMPOUNDS FROM FUEL OIL HEATED HOMES REPORTED IN VARIOUS LOCATIONS WITHIN SAMPLED HOMES IN NYS, 1997-2003.
2. BASE MAP IS REPRESENTATIVE OF SITE CONDITIONS AT THE TIME OF THE REMEDIAL INVESTIGATION, PRIOR TO THE REMEDIAL ACTION.

SOURCES:

1. MAP BASED ON *MAP NO. 2004-06-03: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS,* DATED FEBRUARY 10, 2004, SCALE: 1" = 20', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
2. 2008 INVESTIGATION BASED ON *MAP NO. 2009-01-05: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS,* UPDATED FEBRUARY 2, 2009, SCALE: 1" = 10', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
3. LANDS OF THE CITY OF SARATOGA SPRINGS FROM BOOK 356 OF DEEDS, PAGE 200.

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SARATOGA SPRINGS (LAKE AVE.) FORMER MGP
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SOIL VAPOR AND AMBIENT AIR RESULTS (ug/m³)

Project 034400-2-2006 | November 2012 | Figure 9

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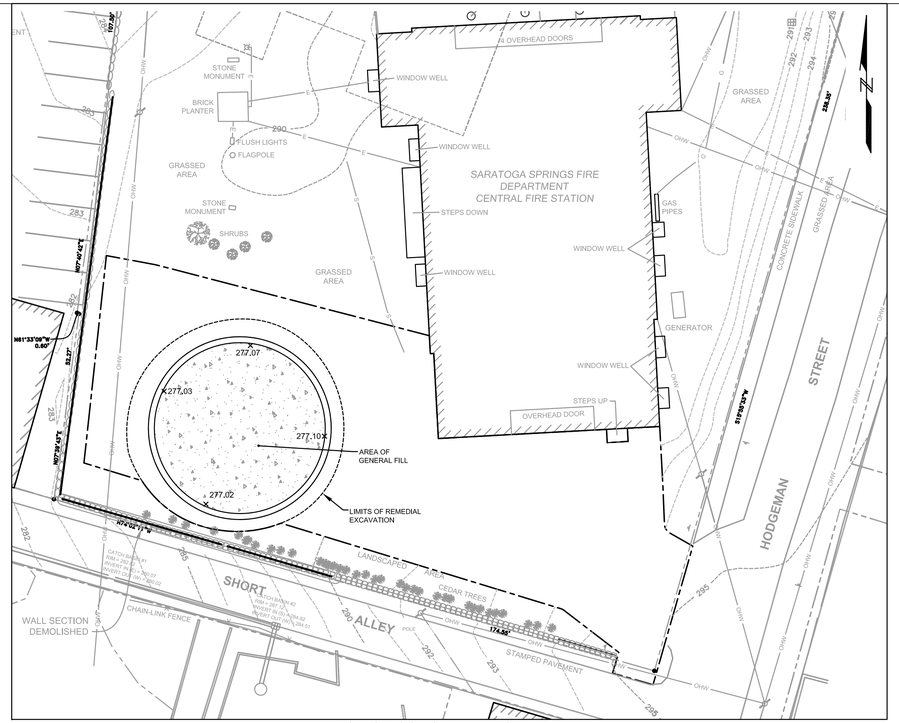
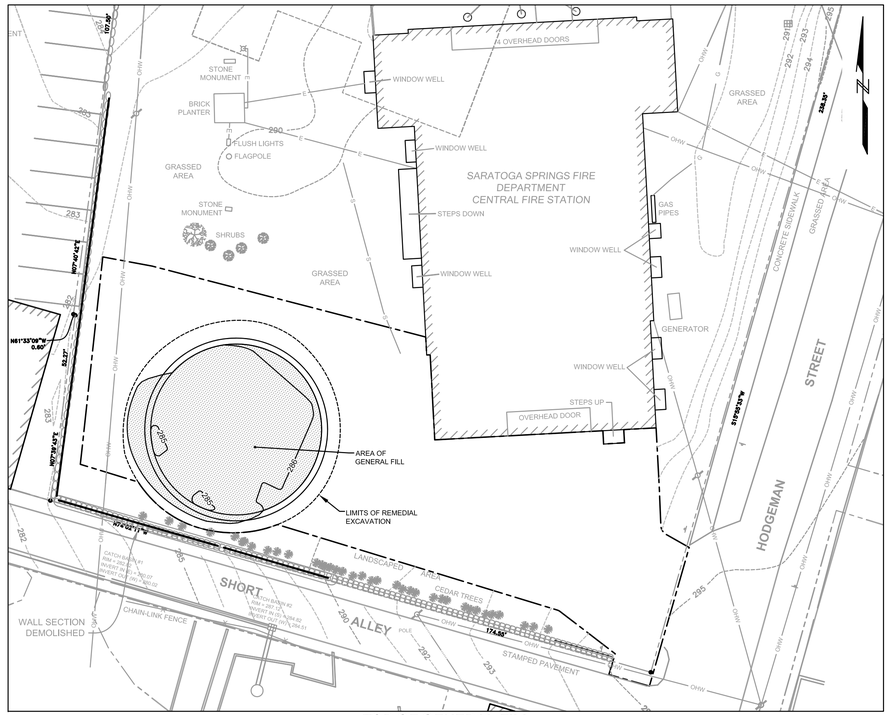
LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- STONE RETAINING WALL
- BRICK WALL
- SIGN
- CATCH BASIN
- 291 — GROUND SURFACE CONTOUR (FT)
- W — WATER LINE
- S — SANITARY SEWER LINE
- G — UNDERGROUND NATURAL GAS LINE
- E — UNDERGROUND ELECTRICAL LINE
- OH — OVERHEAD ELECTRICAL LINE
- WV — WATER VALVE
- UTILITY POLE
- 291 — SURFACE CONTOUR (FT)
- LIMITS OF REMEDIAL EXCAVATION
- LIMITS OF SUBGRADE EXCAVATION
- BOTTOM OF EXCAVATION
- TOP OF FLOW FILL
- TOP OF GENERAL FILL
- TOP OF SUBGRADE

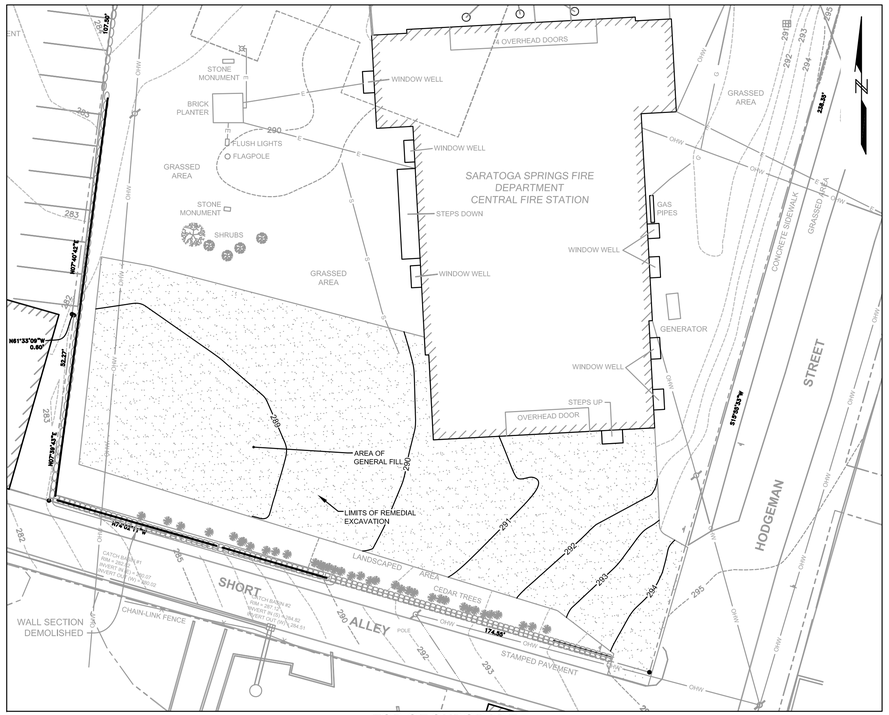
BOTTOM OF EXCAVATION



TOP OF CONCRETE FLOW-FILL



TOP OF GENERAL FILL



TOP OF SUBGRADE

NOTES:

1. MAP BASED ON *MAP NO. 2004-06-03: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS*, DATED FEBRUARY 10, 2004, SCALE 1"=20', BY SURVEY ASSOCIATES, LLC., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
2. LANDS OF THE CITY OF SARATOGA SPRINGS BOOK OF DEEDS, PAGE 200.

SITE MANAGMENT PLAN
SARATOGA SPRINGS (LAKE AVE.)
NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

nationalgrid

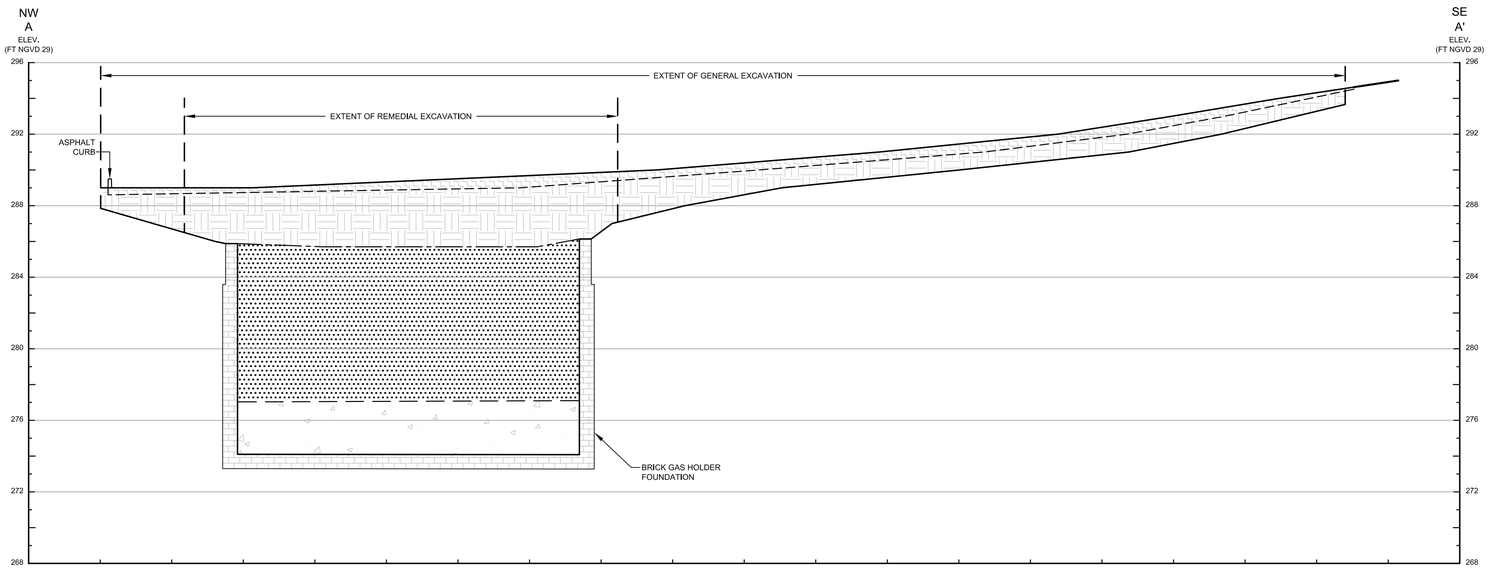
PROJECT 034400-2-2006

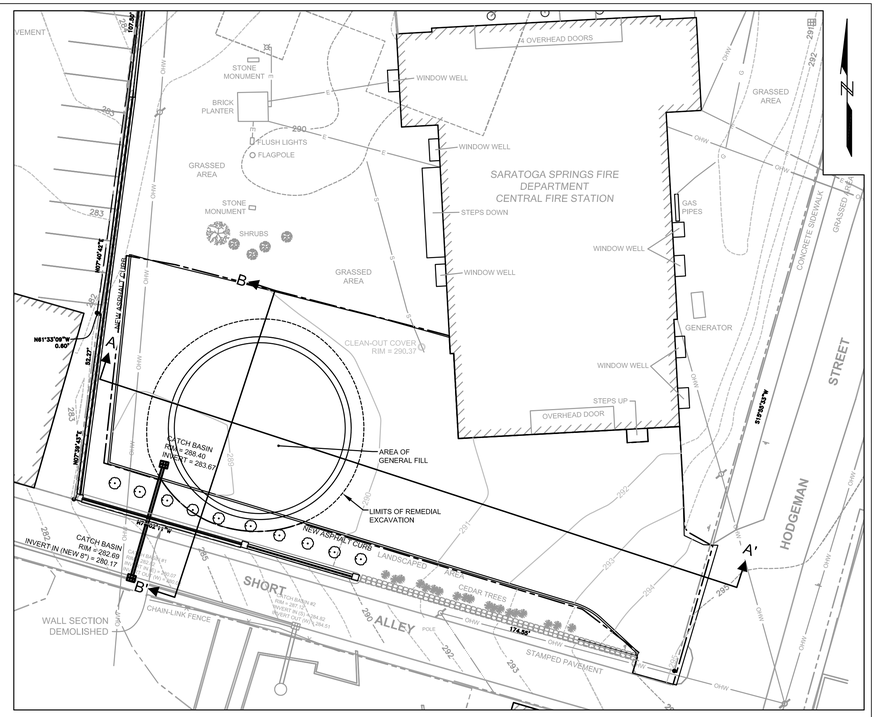
GEI Consultants
455 WINDING BROOK DRIVE
SUITE 201
GLASTONBURY, CONNECTICUT 06033

EXTENT OF REMEDIAL EXCAVATION

November 2012 — Figure 10

I:\Project\National Grid_formerly NIMO\Saratoga Springs\034400\Site Management Plan\figs Based On FER\F2 10 11 13 Saratoga-SMP.dwg

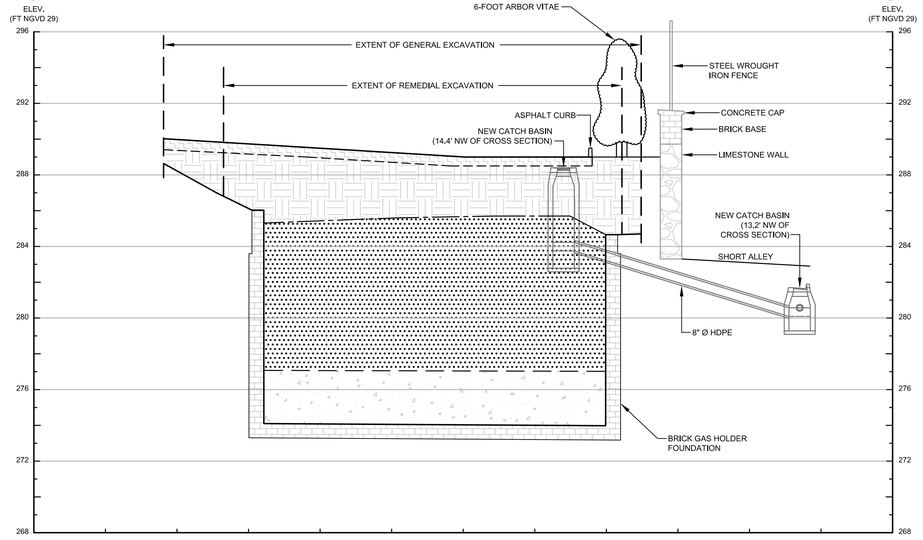




SITE LOCATION MAP

0 20 40

SCALE, FEET



4 2 0 4

VERTICAL SCALE IN FEET

10 5 0 10

HORIZONTAL SCALE IN FEET

VERTICAL EXAGGERATION = 2.5X

CROSS SECTION LEGEND

- TOP OF SUBGRADE
- TOP OF GENERAL FILL
- TOP OF CONCRETE FLOW-FILL
- SUBGRADE
- GENERAL FILL
- CONCRETE FLOW-FILL
- NEW BRICK WALL
- NEW 6-FOOT ARBOR VITAE

SITE LOCATION MAP LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- STONE RETAINING WALL
- CATCH BASIN
- 291 — GROUND SURFACE CONTOUR (FT)
- NEW CATCH BASIN
- NEW DRAIN PIPE
- 290 — PAVEMENT ELEVATION CONTOUR (FEET NVGD 29)
- A — A' CROSS SECTIONS

SITE MANAGEMENT PLAN
SARATOGA SPRINGS (LAKE AVE.)
NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

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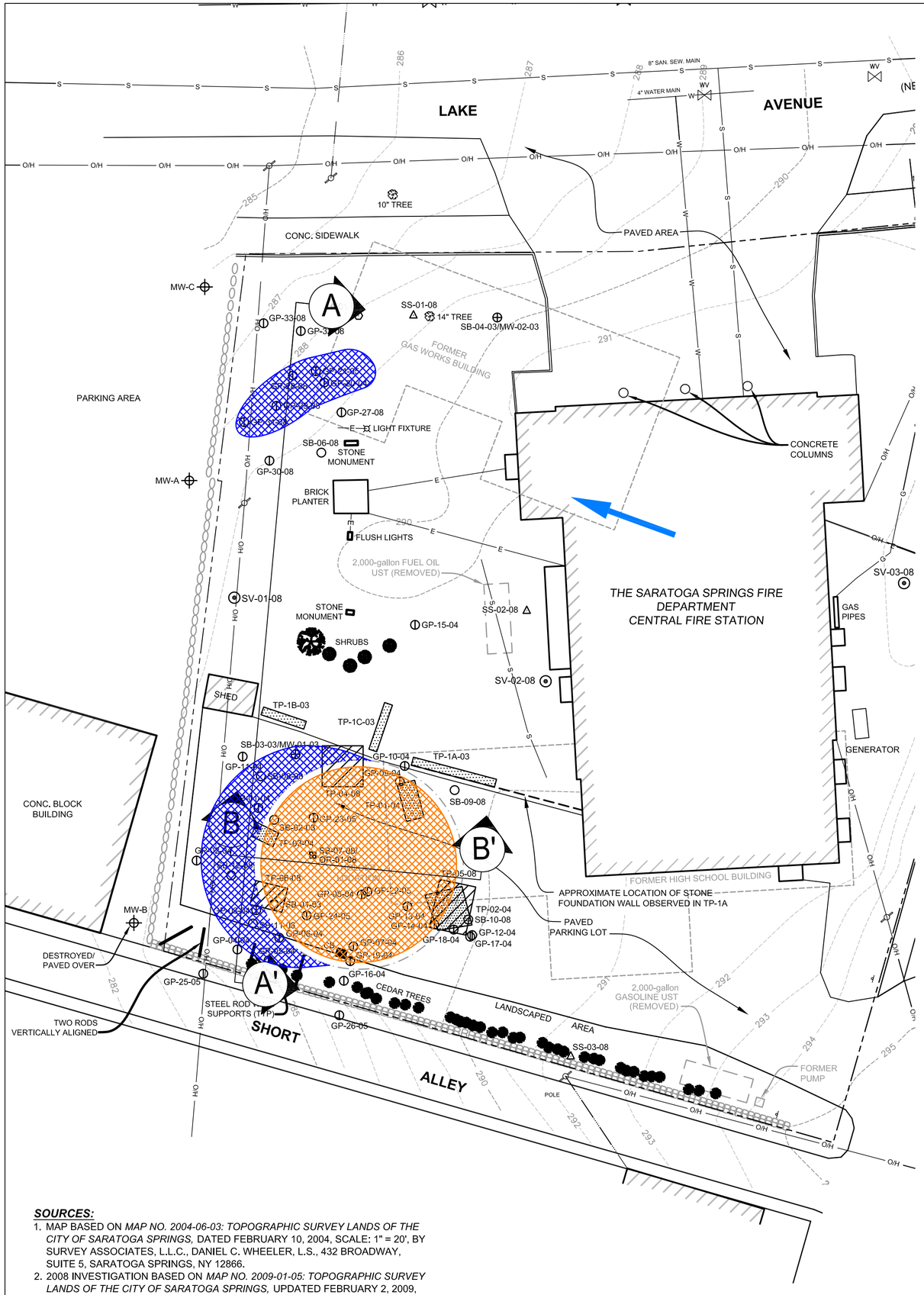
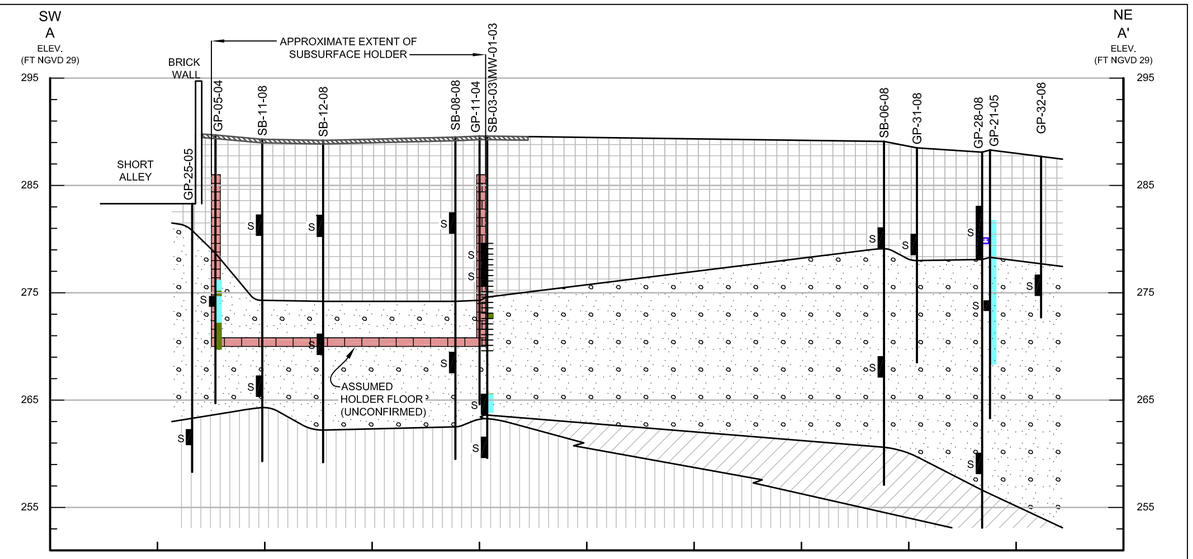
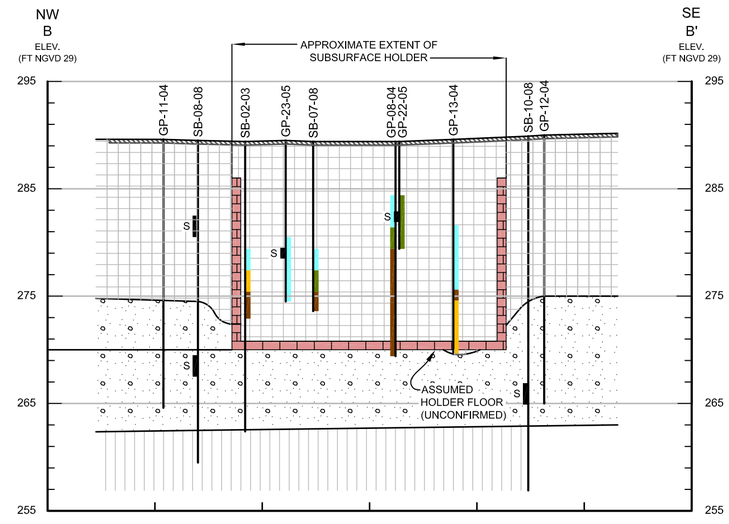
SUITE 201
GLASTONBURY, CONNECTICUT 06033

REMEDIAL EXCAVATION CROSS SECTIONS

November 2012 Figure 11







PLAN LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- APPROXIMATE LOCATION OF HISTORIC STRUCTURE (NOT CONFIRMED)
- CONFIRMED HISTORIC SUBSURFACE STRUCTURE
- STONE RETAINING WALL
- BRICK WALL
- SIGN
- CB — CATCH BASIN
- 291 — GROUND SURFACE CONTOUR (FT)
- W — WATER LINE
- S — SANITARY SEWER LINE
- G — UNDERGROUND NATURAL GAS LINE
- E — UNDERGROUND ELECTRICAL LINE
- O/H — OVERHEAD ELECTRICAL LINE
- WV — WATER VALVE
- UTILITY POLE
- SB-07-08/ OR-01-08 — SOIL BORING AND OBSERVATION/ RECOVERY WELL LOCATION (2008)
- SB-06-08 — SOIL BORING LOCATION (2008)
- GP-27-08 — GEOPROBE BORING LOCATION (2008)
- SS-01-08 — SURFACE SOIL SAMPLE LOCATION (2008)
- SV-01-08 — SOIL VAPOR SAMPLE LOCATION (2008)
- AA-01-08 — AMBIENT AIR SAMPLE LOCATION (2008)
- TP-04-08 — TEST PIT LOCATION (2008)
- GP-21-05 — GEOPROBE BORING LOCATION (2005)
- TP-01-04 — GEI TEST PIT LOCATION (2004)
- GP-01-04 — GEOPROBE BORING LOCATION (2004)
- SB-01-04 — SOIL BORING LOCATION (2004)
- SB-03-03/MW-01-03 — SOIL BORING/MONITORING WELL LOCATION (2003)
- TP-1A-03 — TEST PIT LOCATION (2003)
- MW-A — MONITORING WELLS BY CT MALE ASSOCIATES, INC. (LOCATIONS APPROXIMATE)
- LIMITS OF MGP-RELATED SOURCE MATERIAL
- LIMITS OF MGP-IMPACTED MATERIALS
- INFERRED GROUNDWATER FLOW DIRECTION - 2008

SECTION LEGEND

- SB-08 — SOIL BORING IDENTIFICATION
- S — ANALYTICAL SOIL SAMPLE INTERVAL (mg/kg)
- STRATUM BOUNDARY
- ASPHALT
- BRICK (HOLDER WALL)

GEOLOGY

- CLAY
- FILL
- SILT
- SAND

PHYSICAL OBSERVATIONS

- TAR SATURATED
- BLEBS, GLOBS, LENSES, COATINGS AND TAR/NAPTHA ODORS
- TAR STAINING, SHEEN, AND TAR/NAPHTHA ODORS
- TAR/NAPHTHALENE-LIKE ODORS

NOTES:

1. GROUNDWATER WAS ENCOUNTERED IN THE PORTION OF TEST PIT TP-05-08 WITHIN THE HOLDER AT APPROXIMATELY 6 FEET SHALLOWER THAN THE PORTIONS OUTSIDE THE HOLDER. CRACKS OR SIGNS OF WATER COMMUNICATION BETWEEN THE MATERIAL OUTSIDE THE HOLDER FOUNDATION AND THE WATER CONTAINED WITHIN THE FORMER HOLDER FOUNDATION WERE NOT OBSERVED IN ANY OF THE TEST PITS.

SOURCES:

1. MAP BASED ON *MAP NO. 2004-06-03: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS,* DATED FEBRUARY 10, 2004, SCALE: 1" = 20', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
2. 2008 INVESTIGATION BASED ON *MAP NO. 2009-01-05: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS,* UPDATED FEBRUARY 2, 2009, SCALE: 1" = 10', BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
3. LANDS OF THE CITY OF SARATOGA SPRINGS BOOK 356 OF DEEDS, PAGE 200.

SITE MANAGEMENT PLAN
SARATOGA SPRINGS (LAKE AVE.) FORMER MGP
SARATOGA SPRINGS, NEW YORK

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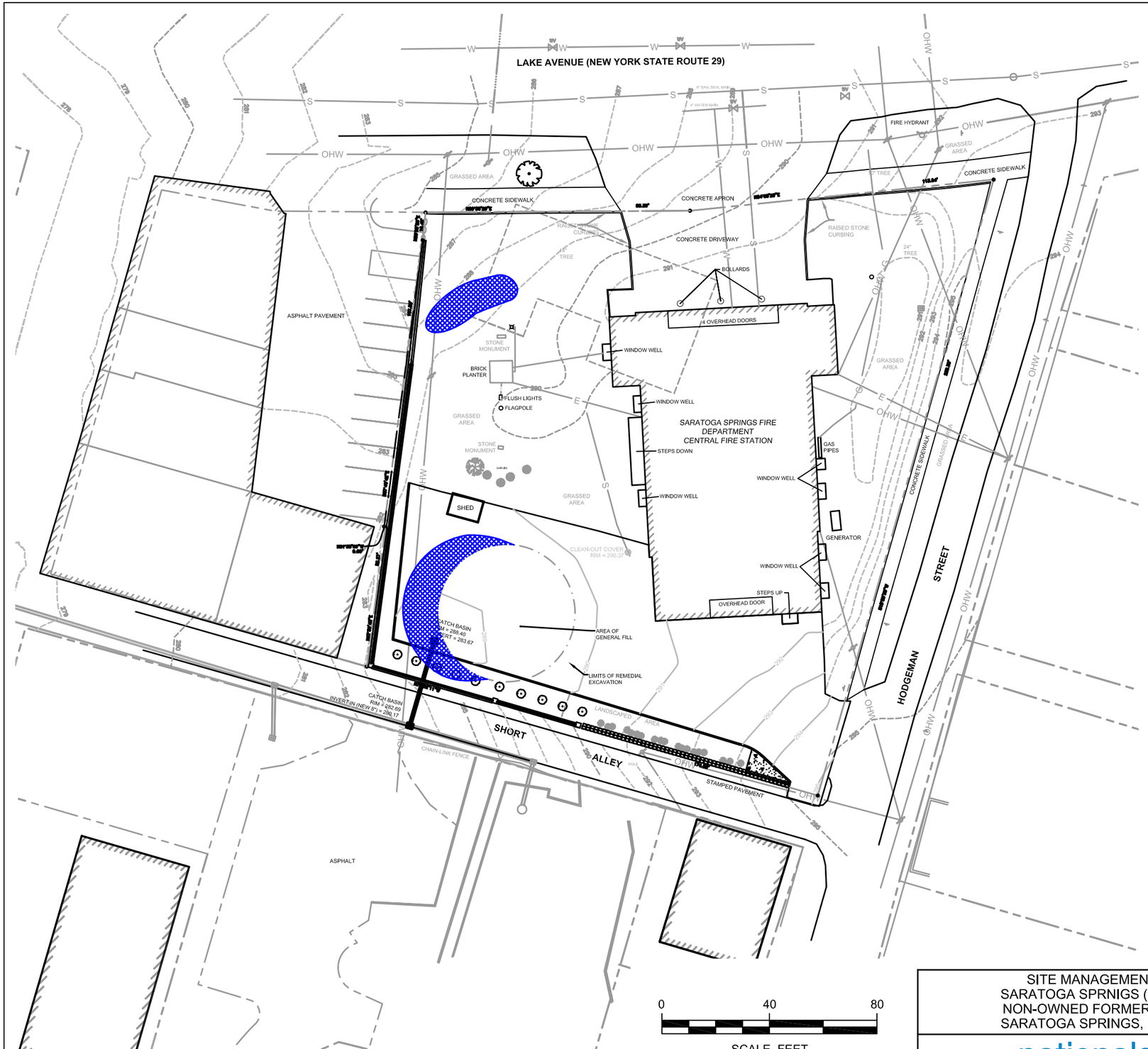
PROJECT 034400-2-2001

GEI Consultants
455 WINDING BROOK DRIVE
SUITE 201
GLASTONBURY, CONNECTICUT 06033

CONCEPTUAL SITE MODEL (PRE-REMEDIAL ACTION)

November 2012 — Figure 12

I:\Project\National Grid_formerly NIMO\Saratoga Springs\034400\Site Management Plan\F12.dwg



LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- APPROXIMATE LOCATION OF HISTORIC STRUCTURE (NOT CONFIRMED)
- CONFIREMED HISTORIC SUBSURFACE STRUCTURE
- STONE RETAINING WALL
- SIGN
- CATCH BASIN
- 291 — GROUND SURFACE CONTOUR (FT)
- W — WATER LINE
- S — SANITARY SEWER LINE
- G — UNDERGROUND NATURAL GAS LINE
- E — UNDERGROUND ELECTRICAL LINE
- O/H — OVERHEAD ELECTRICAL LINE
- WATER VALVE
- UTILITY POLE
- NEW CATCH BASIN
- NEW DRAIN PIPE
- BRICK WALL
- NEW BRICK WALL AND FENCE
- MW-01-03 — MONITORING WELL
- 290 — PAVEMENT ELEVATION CONTOUR (FEET NVGD 29)
- ARBOR VITAE
- LIMITS OF MGP-IMPACTED MATERIALS

SOURCES:

1. MAP BASED ON *MAP NO. 2004-06-03: TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS*, DATED FEBRUARY 10, 2004, SCALE 1"=20', BY SURVEY ASSOCIATES, LLC., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.
2. LANDS OF THE CITY OF SARATOGA SPRINGS BOOK OF DEEDS, PAGE 200.

SITE MANAGEMENT PLAN
SARATOGA SPRNIGS (LAKE AVE.)
NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

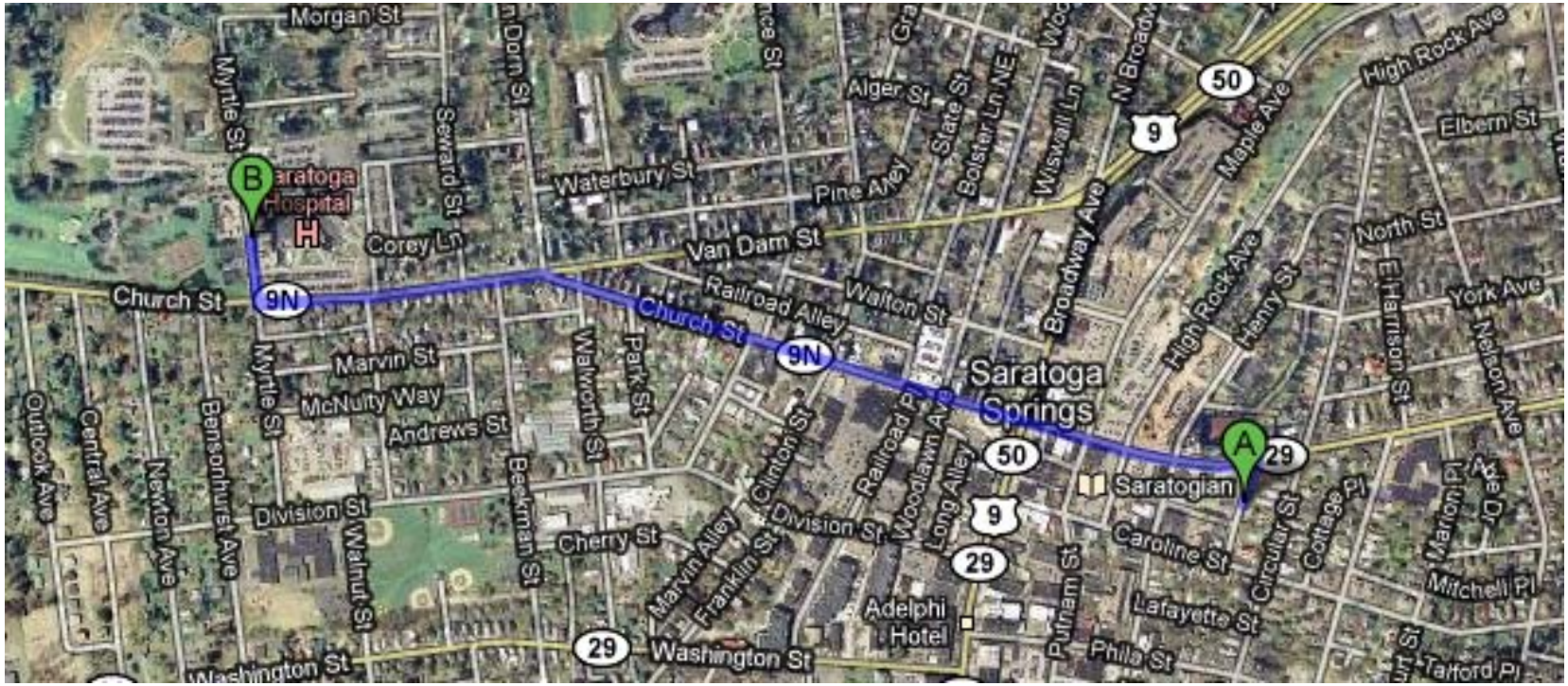
nationalgrid

GEI Consultants

CONCEPTUAL SITE MODEL (POST-REMEDIAL ACTION)

Project 034400-2-2006 | November 2012 | Figure 13

I:\Project\National Grid_formerly NIMO\Saratoga Springs\034400\Site Management Plan\figs based on FER\F2 10 11 13 Saratoga-SMP.dwg



Information:

Site Address: 60 Lake Avenue
Saratoga Springs, New York

Hospital Name: Saratoga Hospital

Hospital Address: 211 Church Street
Saratoga Springs, New York

Hospital Telephone: (518) 587-3222

Total Distance: 1 mile

Directions:

Start at A: Saratoga Springs Central Firehouse

1. Turn left onto Hodgeman St. toward Lake Ave. (Route 29)

2. Turn left onto Lake Ave (Route 29)

3. Continue onto Church Street (Route 9N)

4. Turn right at Myrtle Street – destination will be on the right.

End at B: Saratoga Hospital

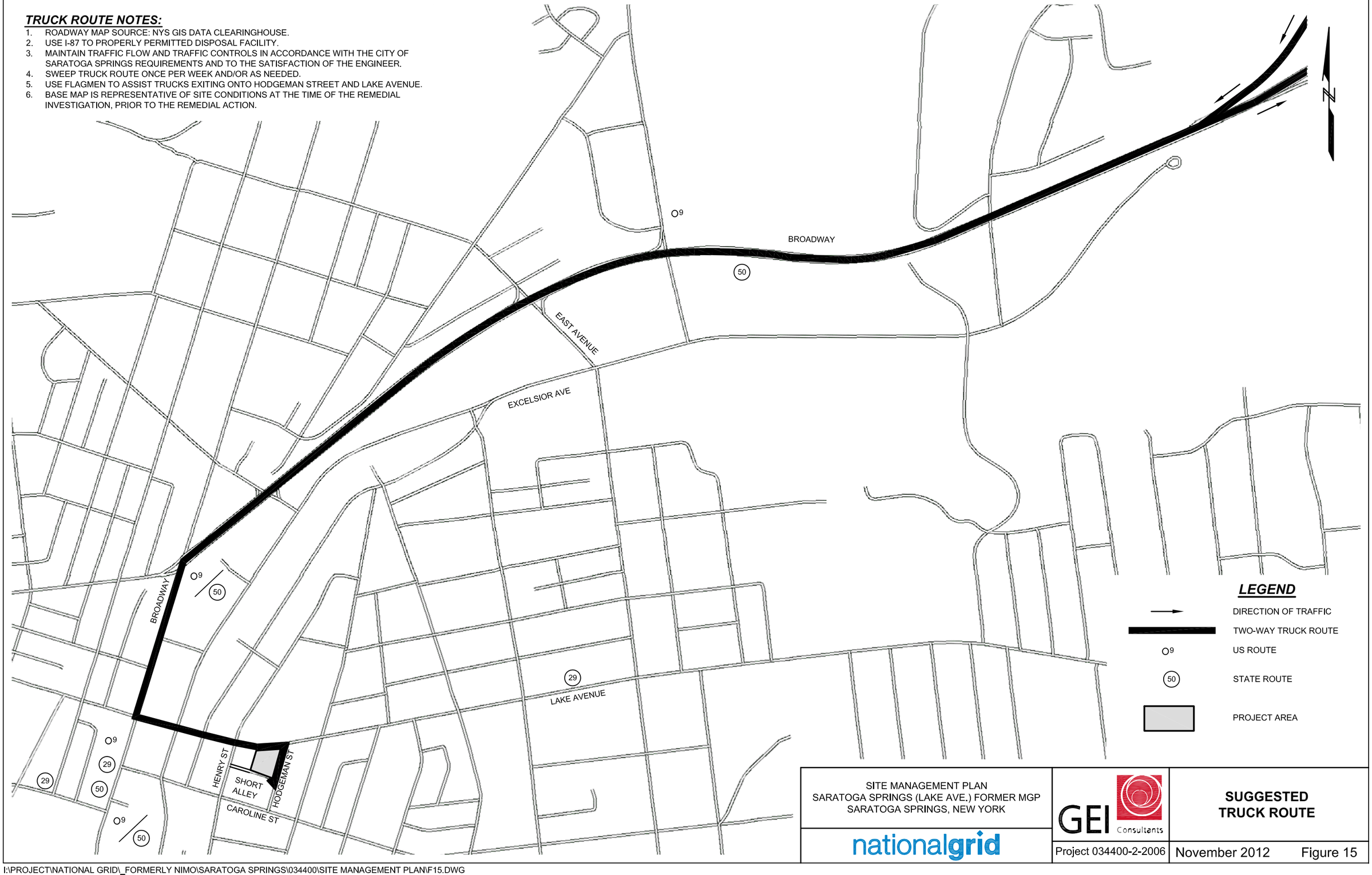
Source: Google Maps

SITE MANAGEMENT PLAN SARATOGA SPRINGS (LAKE AVE) MGP SARATOGA SPRINGS, NEW YORK	GEI Consultants	ROUTE TO HOSPITAL
nationalgrid	Project 034400-2	November 2012 Figure 14

H:\TECH\project\National Grid\Saratoga Springs\2009 Remediation and Oversight\Site Management PLan\Figures\Figure 14 – hospital route.ppt

TRUCK ROUTE NOTES:

1. ROADWAY MAP SOURCE: NYS GIS DATA CLEARINGHOUSE.
2. USE I-87 TO PROPERLY PERMITTED DISPOSAL FACILITY.
3. MAINTAIN TRAFFIC FLOW AND TRAFFIC CONTROLS IN ACCORDANCE WITH THE CITY OF SARATOGA SPRINGS REQUIREMENTS AND TO THE SATISFACTION OF THE ENGINEER.
4. SWEEP TRUCK ROUTE ONCE PER WEEK AND/OR AS NEEDED.
5. USE FLAGMEN TO ASSIST TRUCKS EXITING ONTO HODGEMAN STREET AND LAKE AVENUE.
6. BASE MAP IS REPRESENTATIVE OF SITE CONDITIONS AT THE TIME OF THE REMEDIAL INVESTIGATION, PRIOR TO THE REMEDIAL ACTION.



SITE MANAGEMENT PLAN
SARATOGA SPRINGS (LAKE AVE.) FORMER MGP
SARATOGA SPRINGS, NEW YORK

nationalgrid

GEI Consultants

Project 034400-2-2006

SUGGESTED TRUCK ROUTE

November 2012 Figure 15

I:\PROJECT\NATIONAL GRID_FORMERLY NIMO\SARATOGA SPRINGS\034400\SITE MANAGEMENT PLAN\F15.DWG

Appendix A

Deed Restriction

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT is made the 29th day of OCTOBER 2012, by the City of Saratoga Springs, a corporation organized and existing under the laws of the State of New York and having an office for the transaction of business at City Hall, Broadway, Saratoga Springs, NY 12866.

WHEREAS, the Saratoga Springs (Lake Avenue) Non-Owned Former MGP Site is the subject of a Voluntary Cleanup Order, Index No. DO-0001-0011 ("VCO") executed by National Grid, with an effective date of January 25, 2002, as part of the New York State Department of Environmental Conservation's (the "Department's) Voluntary Cleanup Program, namely that parcel of real property located on 60 Lake Avenue in the City of Saratoga Springs, County of Saratoga, State of New York, which is part of lands conveyed by Graybeck Trading Corporation to the City of Saratoga Springs by deed dated May 17, 1929 and recorded in the Saratoga County Clerk's Office in Liber and Page 356:200, and being more particularly described in Appendix "A," attached to this declaration and made a part hereof, and hereinafter referred to as "the Property"; and

WHEREAS, the Department approved a remedy ("Remedy") to eliminate or mitigate all significant threats to the environment presented by the contamination disposed at the Property and such remedy requires that the Property be subject to restrictive covenants.

WHEREAS, the VCO commits National Grid to carry out long-term maintenance and monitoring of the Remedy, and these commitments are described in a Site Management Plan ("SMP").

NOW, THEREFORE, the City of Saratoga Springs, for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions is as shown on a map attached to this declaration as Appendix "B" and made a part hereof.

Second, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, where contamination remains at the Property subject to the provisions of the SMP, there shall be no construction, use or occupancy of the Property that results in the disturbance or excavation of the Property which threatens the integrity of the engineering controls or which results in unacceptable human exposure to contaminated soils.

Third, the owner of the Property shall not disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of engineering controls required for the Remedy,

which are described in the SMP, unless in each instance the owner first obtains a written waiver of such prohibition from the Department or Relevant Agency.

Fourth, the owner of the Property shall prohibit the Property from ever being used for purposes other than for its current use as a municipal fire station without the express written waiver of such prohibition by the Department or Relevant Agency.

Fifth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without first treating it to render it safe for drinking water or for industrial purposes, as may be appropriate, unless the person or entity using such water shall first obtain permission from the Department or Relevant Agency to use such water without treatment.

Sixth, the owner of the Property shall provide information to National Grid to assist it in carrying out its obligation to provide a periodic certification, prepared and submitted by a professional engineer or environmental professional acceptable to the Department or Relevant Agency, which will certify that the institutional and engineering controls put in place are unchanged from the previous certification, comply with the SMP, and have not been impaired. National Grid shall provide the owner of the property with copies of all periodic certifications.

Seventh, the owner of the Property shall continue in full force and effect any institutional and engineering controls required for the Remedy and shall not, through any act or omission, interfere with National Grid's maintenance and monitoring of such controls, and maintain such controls, unless National Grid or the owner first obtains permission to discontinue such controls from the Department or Relevant Agency, in compliance with the approved SMP, which is incorporated and made enforceable hereto, subject to modifications as approved by the Department or Relevant Agency.

Eighth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner and its successors and assigns consent to enforcement by the Department or Relevant Agency of the prohibitions and restrictions that the Voluntary Cleanup Agreement requires to be recorded, and hereby covenant not to contest the authority of the Department or Relevant Agency to seek enforcement.

Ninth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Department or Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

By: _____

Print Name: Scott T. Johnson

Title: Mayor Date: 10/29/12

Per City Council Approval – September 18, 2012

STATE OF NEW YORK)

) s.s.:

COUNTY OF SARATOGA)

On the 29th day of OCTOBER in the year 2012, before me, the undersigned, personally appeared SCOTT T. JOHNSON, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

ANTHONY J. IZZO
Notary Public - State of New York
No. 02IZ4830454
My Commission Expires 10-31-14

_____

Notary Public State of New York

Appendix B

Metes and Bounds

Metes and Bounds of “the Property”

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Saratoga Springs, County of Saratoga and State of New York, described as follows: Beginning at the intersections of the west line of Hodgeman Street with the south line of Lake Avenue then;

S 15°55’33” W – 238.35 feet, then

N 74°02’11” W – 174.55 feet, then

N 07°39’43” E – 52.27 feet, then

N 16°33’09” W – 0.60 feet, then

N 07°40’42” E – 107.50 feet, then

N 05°55’58” E – 10.43 feet, then

N 89°38’29” E – 98.39 feet, then

N 84°08’29” E – 113.54 to the point of beginning, including 0.87 acres.

Being the same premise conveyed to the City of Saratoga Springs by Graybeck Trading Company, by deed dated May 17th, 1929, in the Saratoga County Clerk’s Office in Book 356 of Deeds, Page 200 and the premise conveyed to the City of Saratoga Springs by Edron, LLC, by deed dated August 18th, 2010.

Appendix C

Excavation Work Plan

GEI Consultants

Geotechnical
Environmental
Water Resources
Ecological

Excavation Work Plan

Saratoga Springs (Lake Avenue) Non-Owned Former Manufactured Gas Plant Site

Saratoga Springs, New York
AOC Index No. A2-0552-0606
Site No. V 00475

Submitted to:
National Grid
300 Erie Boulevard West
Syracuse, NY 13202

Submitted by:
GEI Consultants, Inc.
455 Winding Brook Dr, Suite 201
Glastonbury, CT 06033
860-368-5300

November 2012
Project # 034400-2-2006

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1. Introduction

1.1 General

Any future intrusive work at the Saratoga Springs (Lake Avenue) Non-Owned Former MGP Site (site) that will penetrate the soil cover, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover will be performed in compliance with this Excavation Work Plan (EWP) pursuant to the Site Management Plan (SMP), and the site's Deed Restriction.

1.1.1 Notification

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the New York State Department of Environmental Conservation (NYSDEC). Currently, this notification will be made to:

R. Scott Deyette
Chief Construction Inspector, Remedial Bureau C
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7014

This notification will include:

- A detailed description of the work to be performed, including the location and extent, plans for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated, and any other work that may impact an institutional control.

- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling.

- A schedule for the work, detailing the start and completion of all intrusive work.

- A summary of the applicable components of this EWP.

- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120.
- A copy of the health and safety plan, in electronic format.
- Identification of disposal facilities for potential waste streams.
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

Prior to mobilization, the site owner or their representative will prepare and submit all required documents identified in this EWP for review and approval by the NYSDEC.

Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) discussed in the SMP.

The Site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of soils and water, control of runoff from open excavations into remaining contamination, and for structures that may be affected by excavations.

1.2 Site Preparation

Prior to performing any intrusive work, the site preparation features will be implemented and remain in-place throughout the duration of the work.

1.2.1 Erosion and Sediment Controls

The erosion and sediment controls are intended to mitigate erosion and sedimentation from the site.

All stormwater runoff from the exterior of the excavation area will be collected, routed, and discharged into the local drainage structures prior to contact with any impacted materials. Access areas between the excavation area and the adjacent public streets will contain decontamination stations for all trucks and equipment. The decontamination waters will be handled in accordance with the Liquid Management and Disposal plan (**Section 1.3.4**).

Sediment fence will be installed around the entire perimeter of the site and all areas to be excavated. Decontamination stations will act as anti-tracking pads, thereby, removing all soil

and sediment from all trucks/equipment wheels and bodies that are exiting the site onto public streets. All trucks shall have watertight compartments to prevent seepage from wet soil from leaking onto public streets.

Sediment fences will be inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures will be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they will be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Additional erosion control measures may be needed due to unforeseen conditions.

Upon completion of the remedy, remove all sediment fencing and restore the surface. All sediment accumulated in the fencing will be removed and transported to a properly-licensed disposal facility.

1.2.2 Site Security

The objectives of the site security plan at the site are to prevent the vandalism/destruction of construction equipment and to prevent access and minimize health and safety concerns for the surrounding residential neighborhood.

A temporary fence will be erected around the perimeter of the work area. At a minimum, the fence will be 8-foot high, equipped with a privacy screen. The fence will extend around all work areas to include the excavation area, waste handling equipment, and storage areas if any. The fence will have two gates that will have the ability to be locked at the end of each working day. If not otherwise lighted (i.e., building floodlights, municipal streetlights, etc.), provide temporary lighting at the gate.

1.3 Excavation and Transport

The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan. A qualified environmental professional

or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

Visual, olfactory and instrument-based soil screening will be performed by the qualified environmental professional during all remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the Certification of Completion.

1.3.1 Stockpile Methods

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used, as needed, near catch basins, surface waters, and other discharge points. Stockpiles will be inspected, at a minimum, once each week and after every storm event. Results of inspections will be recorded in a logbook, maintained at the site, and available for inspection by NYSDEC.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

1.3.2 Vehicle Load Out and Off-Site Transport

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and New York State Department of Transportation requirements (and all other applicable transportation requirements).

All trucks will be made watertight with plastic truck liners before loading occurs. Care will be exercised when loading trucks so as not to spill material on the outside of the trucks.

Once a truck is filled with excavated material, spray-on odor suppressing materials such as Rusmar Foam or Biosolve® may be used to reduce potential volatile organic compound (VOC) emissions during transit, if necessary. A plastic tarp will then be used to cover the excavated materials.

The truck will then exit the excavation area and proceed immediately to a decontamination pad. Trucks will be visually inspected (i.e., box sidewalls, box tailgate, and tires, etc.), cleaned with brushes/brooms, and decontaminated with pressure sprayers, if necessary, prior leaving the site. The qualified environmental professional will be responsible for ensuring that all outbound trucks are decontaminated in accordance with the Decontamination Plan (**Section 1.5**) before leaving the site.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking. The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive activities. Cleaning of the adjacent streets will be performed, as needed, to maintain a clean condition with respect to site-derived materials.

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 New York Code of Rules and Regulations (6 NYCRR) Part 364. Haulers will be appropriately licensed and trucks properly placarded. A proposed truck route is included in **Figure 15** of the SMP.

1.3.3 Off-Site Disposal of Soils

All soil/fill/solid waste excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6 NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this site is proposed for unregulated off-site disposal (i.e., clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Soils that contain too high a water content to be transported safely (e.g. without risk of a liquid spill off-site) must be amended on-site prior to shipment off-site. Dewatering activities will be utilized, if necessary, to control water levels within the excavation. All amendments used at the site will be meet NYSDEC requirements.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e., hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6 NYCRR Part 360-1.2. Material that does not

meet Track 1 unrestricted Soil Cleanup Objectives (SCOs) is prohibited from being taken to a New York State recycling facility (6 NYCRR Part 360-16 Registration Facility).

1.3.4 Liquid Management and Disposal

All liquids to be removed from the site, including excavation dewatering and decontamination water, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, but will be managed off-site.

Contaminated liquids from decontamination of equipment and personnel will be pumped into storage tanks (such as fractionalization (frac) tanks) and disposed of off-site. A licensed liquid waste hauler will remove this liquid from the site and properly dispose of this material in accordance with all applicable regulations.

Solid material collected in the frac tank, as a result of settling, will be bulked with soils and sent to an appropriately-licensed disposal facility, as necessary.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a State Pollution Discharge Elimination System permit.

1.3.5 Disposal Record Keeping

All manifests and/or bills of lading will be reviewed by the NYSDEC and signed by the owner's designated agent.

A log of all shipments and copies of all manifests and/or bills of lading will be on-site for reference. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading, and facility receipts.

1.4 Backfilling

The qualified environmental professional or person under their supervision will oversee all backfilling operations and review all soil analyses to ensure it meets the required criteria. The soil analytical results will be sent to the NYSDEC for review prior to backfilling operations.

1.4.1 Soil Reuse

Material that meets the Restricted-Residential SCOs listed in Table 375-6.8(b) of 6 NYCRR Part 375, included in **Table 7** of the SMP, meet the chemical criteria for on-site reuse. Prior to reuse, samples will be collected and analyzed by an Environmental Laboratory Approval Program (ELAP)-certified laboratory for total VOCs via United States Environmental Protection Agency (EPA) Method 8260, total semivolatile organic compounds (SVOCs) via EPA Method 8270, polychlorinated biphenyls (PCBs) via EPA Method 8082, Total Petroleum Hydrocarbons (TPH) via EPA Method 8015, and total cyanide via EPA Method 9010/9014.

Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site, will be placed below a demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

Soils proposed for reuse will be segregated in separate stockpiles from soils to be shipped off-site for disposal.

The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site.

1.4.2 Backfill Using Imported Material

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site. Material from industrial sites, spill sites, other environmental remediation sites, or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6 NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are the Restricted-Residential SCOs listed in Table 375-6.8(b) of 6 NYCRR Part 375, included in **Table 7** of the SMP. Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360,

but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

At a minimum, backfill samples will be analyzed for Resource Conservation and Recovery Act (RCRA) 8 Metals, PCBs by EPA Method 8082, VOCs by EPA Method 8260 or New York State Analytical Service Protocol (NYSASP) Method 95.1, and SVOCs by EPA Method 8270C or NYSASP Method 95-2.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

1.4.3 Cover System Restoration

After the completion of soil removal and any other invasive activities, the cover system will be restored in a manner that complies with the RA work plan and/or Deed Restriction. A demarcation layer, consisting of orange snow fencing material or equivalent material will be placed to provide a visual reference to the top of the 'Remaining Contamination Zone', the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP.

If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the Site Management Plan.

1.5 Decontamination Plan

The objectives of the decontamination plan at the site are to provide the procedures and equipment necessary to decontaminate personnel and equipment to prevent cross-contamination from the excavation area to public areas (i.e., highways, roads, support trailer, vehicles, etc.) This plan does not replace the decontamination procedures outlined in the HASP.

The Contractor will establish decontamination areas for the following activities.

- Personnel decontamination
- Equipment decontamination

1.5.1 Personnel Decontamination Station

A personnel decontamination station where workers can drop equipment and remove personal protective equipment (PPE) will be set up within the work zone. It will be equipped with basins for water and detergent, and trash bags or cans for containing disposable PPE and discarded materials. Once personnel have decontaminated at this station and taken off their PPE, they will proceed to a sink where they will wash themselves as a secondary means of personal hygiene (e.g., hands, face, etc.).

1.5.2 Equipment Decontamination Station

Heavy equipment decontamination will be performed within the limits of the on-site decontamination pads. Heavy contamination will be brushed off equipment using a broom and/or brushes within the excavation area prior to movement to the decontamination pads to decrease the amount of respirable particulates leaving the remediation area. If necessary, at the decontamination/anti tracking pad, all heavy equipment will be pressure washed before leaving the site. All equipment leaving the site will be decontaminated per these guidelines.

In addition, any equipment previously utilized to excavate impacted material will be decontaminated prior to use in backfilling (e.g. excavator bucket).

Decontamination/anti-tracking pads will be located and operated at any point that equipment leaves the site. The decontamination pad(s) will be sufficiently sized to ensure that the largest piece of equipment can be adequately decontaminated. Provisions will be made to control overspray at the decontamination pad(s).

Wastewater from equipment decontamination will be collected and pumped into the frac tanks. Soils collected from the decontamination pads will be bulked with the excavated material and sent to the properly licensed National Grid-approved disposal facility as necessary.

1.5.3 Odor and Dust Controls

Excavation activities at remediation sites typically generate airborne dust and vapors (VOCs) that have the potential to migrate off-site.

Odor controls will be capable of controlling emissions of nuisance odors off-site and on-site. If nuisance odors are identified at the Site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and the New York State Department of Health (NYSDOH) will be notified of all odor events and of any other complaints about the

project. Implementation of all odor controls, including the halt of work, is the responsibility of the qualified environmental professional, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (1) limiting the area of open excavations and size of soil stockpiles; (2) shrouding open excavations with tarps and other covers; and (3) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (4) direct load-out of soils to trucks for off-site disposal; (5) use of chemical odorants in spray or misting systems; and, (6) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

Odor suppressant systems consisting of chemical foam (e.g., Rusmar foam, Biosolve®) or other approved methods will be provided to prevent odors, if necessary. Keep sufficient odor suppressant on-site to manage the odors generated from the excavated materials, including, but not limited to open excavations, limited stockpiles, or materials loaded into trucks for transportation and disposal. The odor suppressant system will be stored near the excavation and will be easily mobile. Open excavations will be backfilled or covered at the end of each working day to suppress odors, if necessary.

Dust controls will address dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.

In recognition of this potential hazard, the NYSDOH has promulgated a CAMP that establishes action levels of respirable dust and VOCs that are protective of the surrounding community. The requirements of the CAMP are contained in Appendix 1A of the Department of Environmental Remediation (DER-10) *Technical Guidance for the Site Investigation and Remediation*. The CAMP is intended to supplement, but be discrete from the air-monitoring program implemented by the Contractor for purposes of evaluating Site worker health and safety. Conditions within the excavation area will be monitored in

accordance with the Contractor's HASP. Conditions on the perimeter will be monitored in accordance with the CAMP.

1.5.4 CAMP Summary

A site-specific CAMP was prepared for the site as part of the Remedial Action. The CAMP is included in **Appendix E** of the SMP for reference purposes. The CAMP is in compliance with DER-10 and all other applicable Federal, State and local regulations. Based on future changes to State and Federal health and safety requirements, and specific methods employed by future contractors, the CAMP will be updated and re-submitted for NYSDEC approval.

The CAMP will be designed to provide monitoring procedures, Alert Limits, Action Limits, and contingency measures if Action Limits are approached. An Alert Limit is a contaminant concentration or odor intensity that triggers contingent measures. An Alert Limit does not suggest the existence of a health hazard, but serves instead as a screening tool to trigger contingent measures if necessary, to assist in minimizing off-site transport of contaminants and odors during remedial activities. An Action Limit is a contaminant concentration or odor intensity that triggers work stoppage.

During times of ground intrusive activities, fence line perimeter air monitoring will be conducted using a combination of real-time (continuous and almost instantaneous) air monitoring at fixed locations and walk-around supplemental monitoring using hand-held instruments on an as-needed basis. Contaminants commonly found at former MGP sites will be monitored, including VOCs and dust. The CAMP will include a plan that defines Alert Levels, Action Levels, and specific response activities to be implemented during working hours if an exceedance of an Alert Limit or Action Limit for a measured compound occurs. The response actions, potentially including work stoppage, are intended to prevent or significantly reduce the migration of airborne contaminants from the site.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

1.6 Other Nuisances

A plan will be developed and utilized by the contractor for all work to ensure compliance with local noise control ordinances.

1.7 Contingency Plan

If previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc., as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for full a full list of analytes (target analyte list [TAL] metals; target compound list (TCL) volatiles and semivolatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report.

1.8 Reporting

Following the completion of the work, a summation will be included in the Periodic Review Report. The report should include a summary of activities, any changes to the work plan, the final disposal of both solid and hazardous waste, and contain a statement that the work was performed in accordance with the SMP. Specific components of the report may include:

- Record drawings, specifications, addenda, and approved changes.
- The actual volumes of excavated material and treated/discharged wastewater.
- The results of documentation analyses.
- Other plans and figures (if required), photographs, cross sections, data summary tables, and appendices
- Approved permits.
- Summary of construction work, meetings, and changes in work scope.
- Shipping manifests and bills of lading (contaminated soil, clean fill, and construction dewatering liquids).
- Summary of Air Monitoring Data collected during the remedial activities.
- Certification that material transported off-site was disposed of at a properly-licensed disposal facility or Treatment Storage and/or Disposal Facility.

The Periodic Review Report should be submitted to the NYSDEC for review in accordance with the SMP.

Appendix D

Health and Safety Plan

This NYSDEC-approved Site Specific HASP is in compliance with DER-10, and 29 CFR 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. It is provided for example only.

Based on changes to State and federal health and safety requirements, and specific methods employed by future contractors this HASP may need to be updated. The updated HASP should be re-submitted to the NYSDEC for approval.

DRAFT HEALTH AND SAFETY PLAN (HASP)

Site:	**SARATOGA SPRINGS (LAKE AVENUE) NON-OWNED FORMER MGP**
Location:	**SARATOGA SPRINGS, NEW YORK**
Date Prepared:	**August 27, 2009**
Revision:	**1**
Project Description:	**REMEDIAL ACTION: EXCAVATION, SUBSURFACE SOIL SAMPLING**
Potential Waste types:	Petroleum impacted soils and groundwater, historic fill, possible non-aqueous phase liquid (NAPL), tar-impacted soils and groundwater.
Characteristics:	Elevated concentrations of volatile compounds and semi-volatile compounds and metals.
Unusual Site Features:	The Site is bounded on the west by a stone wall, and on the south by a brick wall. Site is underlain by low-permeability clay.
Status:	Remedial Action
Background Review:	Historical records review, Remedial Investigation Report.
Overall Hazard:	Low

NATIONAL GRID, NATIONAL GRID CONTRACTORS AND SUBCONTRACTORS DO NOT GUARANTEE THE HEALTH OR SAFETY OF ANY PERSON ENTERING THIS SITE. DUE TO THE NATURE OF THIS SITE AND THE ACTIVITY THAT OCCURRED THEREON, IT IS NOT POSSIBLE TO DISCOVER, EVALUATE, AND PROVIDE PROTECTION FOR ALL POSSIBLE HAZARDS THAT MAY BE ENCOUNTERED. STRICT ADHERENCE TO THE HEALTH AND SAFETY GUIDELINES SET FORTH HEREIN WILL REDUCE, BUT NOT ELIMINATE, THE POTENTIAL FOR INJURY AT THIS SITE. THE HEALTH AND SAFETY GUIDANCE IN THIS PLAN WAS PREPARED TO SERVE AS AN EXAMPLE TO POTENTIAL CONTRACTORS AND SUBCONTRACTORS THAT MAY WORK AT THIS SITE AND SHOULD NOT BE USED ON ANY SPECIFIC PROJECT WITHOUT PRIOR RESEARCH AND EVALUATION BY TRAINED HEALTH AND SAFETY SPECIALISTS.

CONTRACTOR CERTIFICATIONS

By their signature, the undersigned hereby certify that this HASP has been reviewed and approved for use at the National Grid Saratoga former MGP Site located on Lake Avenue in Saratoga Springs, New York.

PROJECT MANAGER	DATE
SITE SAFETY OFFICER	DATE
CORPORATE HEALTH AND SAFETY OFFICER	DATE

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Abbreviations and Acronyms

AOC	Administrative Order on Consent
ASTM	American Society for Testing and Materials
AWQS	Ambient Groundwater Quality Standards
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CAMP	Community Air Monitoring Plan
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
DER	Department of Environmental Remediation
EPA	United States Environmental Protection Agency
Frac	Fractionation
FSP	Field Sampling Plan
GEI	GEI Consultants, Inc.
HAA	Harten Archeological Associates, Inc.
HASP	Health and Safety Plan
MGP	Manufactured Gas Plant
NAPL	Non-Aqueous Phase Liquid
NYCRR	New York Codes, Rules, and Regulations
NYSASP	New York State Analytical Service Protocol
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAH	Polycyclic Aromatic Hydrocarbon
PPE	Personal Protective Equipment
QAPP	Quality Assurance Project Plan
RA	Remedial Action
RAO	Remedial Action Objective
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
SARA	Superfund Amendments and Reauthorization Act
SCGs	Standards, Criteria, and Guidance
SCOs	Soil Cleanup Objective
SMP	Site Management Plan

Abbreviations and Acronyms (continued)

SVOCs	Semivolatile Organic Compounds
SWPP	Storm Water Pollution Prevention
TCLP	Toxicity Characteristic Leaching Procedure
UR-4	Urban Residential 4 Zoning
VOCs	Volatile Organic Compounds
VCA	Voluntary Cleanup Agreement

1.0 Introduction

1.1 Purpose

The purpose of this Health and Safety Plan (HASP) is to establish the health and safety practices that will be employed by workers participating in remedial activities at the former Saratoga Springs (Lake Avenue) manufactured gas plant (MGP) site, located at 60 Lake Avenue in Saratoga Springs, Saratoga County, New York (the Site). The HASP addresses the broad range of potential hazards associated with field work on a former MGP site.

All workers under the direction of the Consultant, GEI Consultants, Inc. (GEI) are required to comply with the applicable provisions specified in this HASP. All site visitors who enter designated work zones must also comply with this HASP. Refusal or failure to comply with the HASP or violation of any safety procedures by field personnel and/or subcontractors performing work covered by this HASP may result in immediate removal from the Site following consultation with the Contractor.

1.2 Scope of Work and Applicability

Activities to be performed under this HASP are described in the August 2009 Remedial Action Work Plan (RAWP). The scope of work includes the following tasks:

- Site preparation
- Implementation of a Community Air Monitoring Program
- Observation of Contractor excavation/construction/restoration activities
- Construction dewatering
- Installation of soil borings
- Collection of soil and groundwater samples
- Investigation-derived waste handling and storage activities
- Abandonment of existing monitoring wells
- Preservation/Replacement of utilities
- Restoration of work area

The specific hazards associated with these activities are discussed in the following sections, although the HASP also addresses activities that are not anticipated in the RAWP. Activities not under the direct control of GEI will be covered under a HASP prepared by Land Remediation, Inc. of Averill Park, New York (Contractor).

Performance of all site work will comply with applicable parts of OSHA Regulations, primarily 29 CFR Parts 1910 and 1926 and the attached National Grid policies and procedures. A copy this HASP will be maintained at the Site for the duration of work.

2.0 Project Organization and Responsiblities

This section includes the project organization and structure, and establishes the specific chain-of-command for responsibilities and communications. The organizational structure will be reviewed and updated as necessary to reflect the current status of project operations.

2.1 National Grid

National Grid will have final responsibility and authority for all aspects of the project, and is also responsible for approving all changes to this HASP.

A National Grid project-specific organization chart with contact information is included in Appendix A.

2.2 Consultant

Consultant provides general health and safety oversight as National Grid's Agent. The Consultant also conducts perimeter air monitoring and work zone monitoring for Consultant employees. The Consultant will monitor daily operations and will serve as the Contractor's primary point of contact with National Grid and regulatory agencies for health-and-safety related matters. Consultant health-and-safety roles for this project include:

- Project Manager
- Site Safety Officer
- Corporate Health and Safety Officer (CHSO)

The Consultant's health-and-safety roles and responsibilities are structured the same as the Contractor's. Details of these roles are presented below in Section 2.3.

Task	**Consultant**
General Health-and-Safety Oversight of the Interim Remedial Measure	GEI Consultants, Inc. 455 Winding Brook Drive, Suite 201 Glastonbury, CT 06033 (860) 368-5396 National Grid Program Manger: David Terry

A Consultant project-specific organization chart with contact information is included in Appendix A.

2.3 Contractor

Contractor is responsible for all work detailed in the project work plan and/or Contractor Statement of Work. The Contractor is also responsible for the health and safety of Contractor and Subcontractor employees, and conducts work zone monitoring for Contractor and Subcontractor workers. Specific Contractor health and safety roles include:

Project Manager – responsibilities include the following:

- Ensures implementation of this program
- Conducts periodic inspections
- Participates in incident investigations
- Ensures the HASP has all of the required approvals before any site work is conducted
- Ensures that the Site Safety Officer is informed of project changes which require modifications of the site health and safety plan
- Has overall project responsibility for Project Health and Safety.

Site Safety Officer (SSO) – responsibilities include the following:

- Ensures that the HASP is implemented and that all health-and-safety activities identified in site safety plans are conducted and/or implemented
- Ensures that field work is conducted safely and enforces site health and safety rules
- Ensures that adequate communication between field crews and emergency response personnel is maintained
- Ensures that field site personnel are medically cleared and adequately trained and qualified to work at the Site and that proper personal protective equipment is utilized by field teams
- Investigates and reports all accidents/incidents to the PM and to the CHSO
- Conducts and documents daily safety briefings
- Stops work if necessary
- Identifies operational changes which require modifications to health-and-safety procedures and site safety plans, and ensures that the procedure modifications are implemented and documented through changes to the HASP, with CHSO approval
- Directs and coordinates health-and-safety monitoring activities
- Evaluates air monitoring data relative to site and activity-specific action levels
- Ensures that monitoring instruments are calibrated
- Reports to the CHSO to provide summaries of field operations and progress
- Conducts routine safety inspections of their work areas
- Conducts incident investigations and together with the CHSO, prepares appropriate reports
- Maintains files on all personal monitoring results, laboratory reports, calculations, and air sampling data sheets

- Ensures that all necessary information including emergency phone numbers, hospital directions, and warning signs are kept posted in an area accessible to all site employees
- Maintains a daily list of workers and visitors present on the Site.

Corporate Health and Safety Officer – responsibilities include the following:

- Provides for the development and approval of the HASP
- Serves as the primary contact to review health and safety matters that may arise
- Approves revised or new safety protocols for field operations
- Coordinates revisions of this HASP with field personnel
- Coordinates upgrading or downgrading of personal protective equipment with the SSO
- Maintains a copy of fit test certification, documents of medical clearance, and exposure reports from site activities.
- Conducts the investigation of all accidents/incidents.

Site Personnel – responsibilities include the following:

- Reports any unsafe or potentially hazardous conditions to the SSO
- Maintains knowledge of the information, instructions and emergency response actions contained in the HASP
- Complies with rules, regulations and procedures as set forth in the HASP and any revisions
- Prevents admittance to work sites by unauthorized personnel
- Inspect all tools and equipment, including personal protective equipment (PPE), prior to use.

The following Contractors have been selected for the implementation of the Saratoga Springs Lake Avenue Interim Remedial Measure:

Task	**Contractor**
Excavation, Restoration,	Land Remediation, Inc.

A separate Contractor Health and Safety Plan has been prepared by Land Remediation, Inc. for use by Land Remediation, Inc. employees and subcontractors. A Contractor project-specific organization chart with contact information is included in Appendix A.

3.0 Site History and Project Description

3.1 Location

The Site is located at 60 Lake Avenue (the intersection of Lake Avenue and Hodgeman Street) in Saratoga Springs, Saratoga County, New York (Figure 1). The Site is owned by the City of Saratoga Springs and is used as a full-time fire department (Central Fire Station). The City of Saratoga Springs Tax Assessor designates the property as Section 165.60, Block 2, Lot 3. The Site is approximately one acre in size, zoned Urban Residential 4 (UR-4). UR-4 zoning allows for residential use and development. The Site abuts land to the west that is zoned for light commercial and industrial use. Residential use dominates the land to the south and east.

Figure 2 (Appendix B) depicts the Site and surrounding conditions.

3.2 Site History and Current Site Conditions

The site history of the Site and surrounding area was developed through the review of available historical information and maps, Sanborn Fire Insurance maps, topographic maps, aerial photographs and knowledge gained from previous work on the Site.

3.2.1 Site History

The history of gas manufacturing in Saratoga Springs dates back to 1852, when construction of the first gas works on Lake Avenue began. According to Cornelius Durkee's account, *Reminiscing of Saratoga,* published in the Saratogian newspaper (1927-1928), coal gas began flowing to Saratoga village on November 5, 1853. Figure 2 presents the confirmed location of the former gas holder foundation and the approximate location of the former gas works building and school footprints, based on Sanborn Fire Insurance maps and historic maps accessed from the Saratoga Historical Society.

The original gas works building on the Site was 80 feet long, 30 feet wide and 1 story high (*Saratogian* August 8, 1941). The gas works building was adjacent to, and roughly parallel with Lake Avenue.

By 1875, a second gas plant was operating on Excelsior Avenue in Saratoga and the Lake Avenue Manufactured Gas Plant was deemed obsolete; gas making ceased and the gas works building was converted to a school. The school operated for approximately 8 years between 1875 and 1883.

In July 1883, the school was closed and the gas works building was razed (Saratogian 1927-1928). A new high school was constructed to the east and south of the old gas works building. According to the local newspapers, it operated until October 27, 1923, when it was destroyed by fire.

The Central Fire Station was built in 1929 and has been used as a fire station since then.

3.2.2 Current Site Conditions

The Site currently serves as the Saratoga Springs Central Fire Station. The Site is bounded by Lake Avenue to the north, Hodgeman Street to the east, Short Alley to the south, and commercial properties to the west. A landscaped strip and an old stone and brick retaining wall are present along the southern boundary. A continuation of the old stone retaining wall forms the western boundary. The brick portion of the retaining wall has been removed on the western side. Commercial properties are present to the north and west. Residential use dominates the land to the south and east.

Grassed areas are present on the east and west sides of the Central Fire Station. The south side is a paved access way to the back entrance of the Central Fire Station and a parking area for firefighters. The garage bays open onto Lake Avenue. Concrete sidewalks are present on the Site along Lake Avenue and Hodgeman Street.

The Site and other occupied surrounding facilities/buildings are served by municipal water and sewer. The sewer and water conduits come into the Central Fire Station from Lake Avenue, beneath the paved apron that provides access for parking the fire trucks. The current site conditions are presented in Figure 2.

3.3 Project Description

National Grid has retained GEI and other contractors specified in Section 2 of the HASP to perform remedial activities at the Site to address the MGP-impacted soils within the former gas holder foundation. The scope of work is presented in the August 2009 RAWP.

4.0 Potential Site Hazards

This section presents an assessment of potential chemical, physical, and biological hazards that may be encountered during the project work. This section also includes an activity hazard analysis (AHA) to assess and control potential site hazards for each general project task. A more detailed Contractor Project specific AHA is included in Appendix C, which addresses the health and safety hazards of each specific project task or operation and includes requirements and procedures for worker protection. The following appendices include information on additional programs, which will be used to mitigate potential hazards:

Appendix D – Hazard Communication Program
Appendix E – Cold Stress Program
Appendix F – Heat Stress Program
Appendix G – Personal Protective Equipment Program
Appendix H – Lock Out / Tag Out Program
Appendix I – Confined Space / Hot Work Permitting Procedure
Appendix J – Incident Reporting
Appendix K – Previous Investigation Information
Appendix L – Community Air Monitoring Plan

4.1 Chemical Hazards

The characteristics of compounds that may be encountered at the Site are discussed below in the following subsections for informational purposes. Adherence to the safety and health guidelines in this HASP should reduce the potential for exposure to the compounds discussed below. Chemical characteristics and potential exposure information for the compounds that may be encountered during site activities are presented in Table 4-1 below. Material safety data sheets (MSDS) for commonly used compounds and compounds that may be encountered during the site characterization activities are located in Appendix K.

4.1.1 Volatile Organic Compounds (VOCs)

Volatile organic chemicals (VOCs), such as benzene, toluene, ethyl benzene, and xylene (BTEX) have been detected within subsurface soils and groundwater at the Site that are potentially associated with historic MGP operation. Previous site investigation information is attached to Appendix K. These chemicals may be present as a result of residual non-aqueous phase liquids (NAPL) such as fuels, oils, or tar within soil at the Site. Other compounds including chloroform, tetrachloroethene, and trichloroethene, and a petroleum related compound, 2,2,4-trimethylbenzene were detected in soil vapor.

BTEX compounds generally have a depressant effect on the central nervous system (CNS), may cause chronic liver and kidney damage, and some are suspected human carcinogens. Benzene is a known human carcinogen. Acute exposure may include headache, dizziness, nausea, and skin and eye irritation. The primary route of exposure to VOCs is through inhalation and therefore air monitoring and respiratory protection is the primary control against exposure to VOCs. Air monitoring will be conducted as specified in Section 8.0 to alert on-site personnel to potential airborne exposures so that action can be taken to minimize exposures. Perimeter air monitoring of the area immediately surrounding the work zone will be completed in accordance with the Community Air Monitoring Program (CAMP) presented in Appendix L and the RAWP. Exposure through direct contact is possible and will be minimized through the use of PPE as prescribed in Section 6.0.

4.1.2 Coal Tar and Oil Products

Coal tar and petroleum products contain semi-volatile organic compounds (SVOCs). SVOCs consist of polycyclic aromatic hydrocarbons (PAHs) including acenaphthene, acenaphthylene, anthracene, benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(e)pyrene, benzo(g,h,i)perylene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 2-methyl naphthalene, naphthalene, phenanthrene, phenols, and pyrene, and other semi-volatile compounds.

Tar impacted soils, and other SVOCs have been encountered in subsurface soils and groundwater at the site.

Coal tar products may cause contact dermatitis. Direct contact can be irritating to the skin and produce itching, burning, swelling and redness. Direct contact or exposure to the vapors may be irritating to the eyes. Conjunctivitis may result from prolonged exposure. Coal tar is considered to be very toxic, if ingested. High levels of exposure to coal tar, though not anticipated during work activities conducted during this project, may increase the risk of cancer including lung, kidney, and skin cancer. Naphthalene is also an eye and skin irritant and can cause nausea, headache, fever anemia, liver damage, vomiting convulsions, and coma. Poisoning may occur by ingestion of large doses, inhalation, or skin absorption.

The major route of exposure to PAHs and other SVOCs during work activities to be conducted at this Site is through direct contact. Exposure is most likely when handling soil, and groundwater samples. Exposure through direct contact is possible and will be minimized through the use of PPE as prescribed in Section 6.0. Inhalation of SVOCs may occur when the soil is disturbed causing respirable and nuisance dust particles to become airborne or through the volatilization of naphthalene. Air monitoring will be completed as specified in Section 8.0 to minimize airborne exposures. Perimeter air monitoring of the area

immediately surrounding the work zone will be completed in accordance with the RAWP and CAMP.

4.1.3 Heavy Metals

Only one subsurface soil sample contained metals (mercury) above applicable Soil Cleanup Objectives (SCOs).

As with SVOCs, the primary route of metal exposure is through inhalation of dust particles when subsurface soils are disturbed and become airborne. Air monitoring will be completed as specified in Section 8.0 to minimize airborne exposures during subsurface soil investigations. Perimeter air monitoring of the area immediately surrounding the work zone will be completed in accordance with the RAWP and CAMP.

4.1.4 Polychlorinated Biphenyls

PCBs have been detected above Restricted Use Restricted-Residential Soil Cleanup Objectives in only one subsurface soil sample (sample SB-07-08 COMP).

PCBs have historically been used from a number of sources including, but not limited to; electrical systems, hydraulic oils, lubricants, cutting oils, printer's ink, and asphalt. Exposure to PCBs can occur through unbroken skin without immediate pain or irritation. Acute affects of PCB exposure can include eye, skin, nose, and throat irritation. Chronic effects of PCB exposure can include skin swelling and redness, gastro-intestinal disturbances, and neurological effects such as headache, dizziness, nervousness and numbness of extremities. PCBs are suspected human carcinogens that can cause liver cancer. PCBs can accumulate in fatty tissues and result in health effects after the initial exposure has occurred. The primary route of exposure for PCBs is inhalation, dermal contact, and ingestion.

4.1.5 Pesticides

Pesticides including Beta-BHC, DDT, and Dieldrin were detected in one subsurface soil sample at concentrations above Unrestricted SCOs. The primary route of exposure for pesticides is inhalation, dermal contact, and ingestion.

4.1.6 Evaluation of Organic Vapor Exposure

Air monitoring reduces the risk of overexposure by alerting site personnel when action levels have been exceeded and when PPE must be upgraded or changed. Action levels for volatile organic compounds and associated contingency plans for the work zone are discussed within Section 8.0 of this Health and Safety Plan. Perimeter air monitoring of the area immediately surrounding the work zone will be implemented in accordance with the RAWP and CAMP.

Exposure to organic vapors will be evaluated and/or controlled by:

- Monitoring air concentrations for organic vapors in the breathing zone with a photoionization detector (PID) or a flame ionizing detector (FID)
- When possible, engineering control measures will be utilized to suppress the volatile organic vapors. Engineering methods can include utilizing a fan to promote air circulation, utilizing volatile suppressant foam, providing artificial ground cover, or covering up the impacted material with a tarp to mitigate volatile odors.
- When volatile suppression engineering controls are not effective and organic vapor meters indicate concentrations above the action levels, then appropriate respiratory protection (i.e. air purifying respirator with organic vapor cartridge) will be employed.

Table 4-1 Chemical Data

Compound	CAS #	ACGIH TLV	OSHA PEL	Route of Exposure	Symptoms of Exposure	Target Organs	Physical Data
Benzene	71-43-2	0.5 ppm (Skin)	1 ppm TWA 5 ppm STEL	Inhalation Skin Absorption Ingestion Skin Contact	Irritation of eyes, skin, nose, respiratory system, giddiness, headache, nausea; staggering gait, fatigue, anorexia, weakness, dermatitis, bone marrow depression, potential carcinogen	Eyes, skin, CNS, bone marrow, blood	FP: 12° F IP: 9.24 eve LEL: 1.2% UEL:7.8% VP: 75 mm
Beta-BHC	319-85-7	NE	NE	Ingestion, inhalation, Skin absorption	Inhalation: weakness, tremors, convulsions; Skin: may be absorbed, redness; Eyes: redness; Ingestion: diarrhea, dizziness, headache, nausea, vomiting	Eyes, CNS, GI tract, Skin	VP: 3.6X10-7 mm Hg at 20 deg C
DDT, 4,4-	50-29-3	1 mg/m3 TWA	1 mg/m^3 TWA [skin]	Inhalation Skin Absorption Ingestion Skin Contact	Probable human carcinogen, Vomiting, diarrhea, numbness & paresthesias of lips, tongue, & face. Malaise, headache, sore throat, fatigue, weakness. Coarse tremors of neck & head & particularly of eyelids, apprehension, ataxia, & confusion. Irregular pulse, death due to respiratory failure	Eyes, CNS, GI tract, Skin, liver	FP: 162-171°F VP: 1.6X10-7 mm
Dieldrin	60-57-1	0.25 mg/m³ TWA (skin)	0.25 mg/m^3 TWA [skin]	inhalation, skin absorption, ingestion, skin and/or eye contact	Headache, dizziness; nausea, vomiting, malaise (vague feeling of discomfort), sweating; myoclonic limb jerks; clonic, tonic convulsions; coma; [potential occupational carcinogen]; in animals: liver, kidney damage	Central nervous system, liver, kidneys, skin	VP: 8 x 10-7 mmHg
Endrin	72-20-8		0.1 mg/m^3 TWA [skin]	inhalation, skin absorption, ingestion, skin	Epileptiform convulsions; stupor, headache, dizziness; abdominal discomfort, nausea, vomiting;	Central nervous system, liver	FP: NA IP: NA LEL: NA UEL:NA VP: NA

Table 4-1 Chemical Data

Compound	CAS #	ACGIH TLV	OSHA PEL	Route of Exposure	Symptoms of Exposure	Target Organs	Physical Data
				and/or eye contact	insomnia; aggressiveness, confusion; drowsiness, lassitude (weakness, exhaustion); anorexia; in animals: liver damage		
Ethyl benzene	100-41-4	100 ppm	100 ppm	Inhalation Ingestion Skin Contact	Eye, skin, mucous membrane irritation; headache; dermatitis, narcosis; coma	Eyes, skin, respiratory system, CNS	FP: 55° F IP: 8.76 eV LEL: 0.8% UEL:6.7% VP: 7 mm
Mercury	7439-97-6	0.025 mg/m^3	0.10 mg/m3	Inhalation Ingestion Skin Contact Skin Absorption	Irritates eyes and skin, chest pain, cough, difficulty breathing, bronchitis, pneumonitis, tremor, insomnia, irritability, indecision, headache, fatigue, weakness, stomatitis, salivation, Gastrointestinal disturbance, weight loss, proteinuria	Eyes, skin, respiratory tract, central nervous system	Silver-white, heavy odorless liquid FP: NA IP: Unknown LEL: NA UEL:NA VP: 0.0012 mm
Methylphenol, 2-	95-48-7	5 ppm TWA	5 ppm (22 mg/m^3) TWA [skin]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; central nervous system effects: confusion, depression, respiratory failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin burns; dermatitis; lung, liver, kidney, pancreas damage	Eyes, skin, respiratory system, central nervous system, liver, kidneys, pancreas, cardiovascular system	FP: 178° F IP: 8.93 eve LEL: (300°F): 1.4% UEL:NA VP: 0.29 mm
Methylphenol, 4-	106-44-5	5 ppm TWA	5 ppm (22 mg/m^3) TWA [skin]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; central nervous system effects: confusion, depression, respiratory failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin burns;	Eyes, skin, respiratory system, central nervous system, liver, kidneys, pancreas, cardiovascular system	FP: 187° F IP: 8.97 eve LEL: (300°F): 1.1% UEL:NA VP: 0.11 mm

Table 4-1 Chemical Data

Compound	CAS #	ACGIH TLV	OSHA PEL	Route of Exposure	Symptoms of Exposure	Target Organs	Physical Data
					dermatitis; lung, liver, kidney, pancreas damage		
PAH's as Coal tar pitch Volatiles (CTPV)	65996-93-2	0.2 mg/m3	0.2 mg/m3	Inhalation Skin contact Ingestion	Irritant to eyes, swelling, acne contact dermatitis, chronic bronchitis	Respiratory system, CNS, liver, kidneys, skin, bladder, carc	Black or dark brown amorphous residue.
PCBs	11097-69-1	0.5 mg/m^3 (Skin)	0.5 mg/m^3 (Skin)	Inhalation Skin Absorption Ingestion Skin Contact	Irritate eyes; chloracne; liver damage;	Skin, eyes, liver, reproductive system	Colorless liquid or solid with a mild, hydro-carbon odor VP = 0.00006 mm
Phenol	108-95-2	10 ppm (skin)	5 ppm (19 mg/m^3) [skin]	Inhalation Skin Absorption Ingestion Skin Contact	Irritates eyes, nose, throat, anorexia, weight loss, weakness, muscle ache, pain, dark urine, cyanosis, liver and kidney damage, skin burns, dermatitis, tremors, convulsions, twitching,	Eyes, skin, respiratory system, liver, kidneys	Colorless to light pink crystalline solid with sweet, acrid odor. FP:175 ^{o}F IP:8.5 LEL:1.8% UEL: 8.6% VP: 0.4 mm
Toluene	108-88-3	50 ppm	200 ppm	Inhalation Skin Absorption Ingestion Skin Contact	Eye, nose irritation; fatigue, weakness, confusion, euphoria, dizziness, headache; dilated pupils, tearing of eyes; nervousness, muscle fatigue, insomnia, tingling in limbs; dermatitis	Eyes, skin, respiratory system, CNS, liver, kidneys	FP: 40^{o}F IP: 8.82 eV LEL: 1.1% UEL:7.1% VP: 21 mm
Xylene	1330-20-7	100 ppm	100 ppm	Inhalation Skin Absorption Ingestion Skin Contact	Eye, skin, nose, throat irritation; dizziness, excitement, drowsiness; uncoordination, staggering gait; corneal damage; appetite loss, nausea, vomiting, abdominal pain; dermatitis	Eyes, skin, respiratory system, CNS, GI tract, blood, liver, kidneys	FP: 90^{o}F IP: 8.56 eV LEL: 0.9% UEL: 6.7% VP: 9 mm

Abbreviations

C = ceiling limit, not to be exceeded	FP = Flash point	LEL = Lower explosive limit	STEL = Short-term exposure limit (15 minutes)
CNS = Central Nervous System	IP = Ionization Potential	mm = millimeter	TWA = Time-weighted average (8 hours)

Table 4-1 Chemical Data

Compound	CAS #	ACGIH TLV	OSHA PEL	Route of Exposure	Symptoms of Exposure	Target Organs	Physical Data
CVS = Cardiovascular System		GI = Gastro-intestinal		ppm = parts per million		UEL = Upper explosive limit	
eV = electron volt		A.L. = Action Level		Skin = significant route of exposure		VP = vapor pressure approximately 68° F in mm Hg (mercury)	

4.1.7 Evaluation of Respirable Dust Inhalation

Inhalation of respirable dust containing metals and SVOCs is possible when subsurface soils is disturbed by heavy equipment, conducting demolition work, or using power tools on surfaces that contain these materials. Contaminated particulate matter (soil, pavement, etc.) becomes suspended in air due to a combination of factors including lack of vegetative cover and/or dry or dusty conditions. Air monitoring reduces the risk of overexposure to respirable dust inhalation by indicating when action levels have been exceeded and when PPE must be upgraded or changed. Action levels for respirable dust and associated contingency plans for the work zone and perimeter of the Site are discussed within Section 8.0 of this HASP. Perimeter air monitoring of the area immediately surrounding the work zone will be implemented in accordance with the RAWP and CAMP.

Control of respirable dust will be conducted at this Site as follows:

- When possible, dust control measures will be utilized to suppress the dust. These methods include wetting down the area, providing artificial ground cover, or covering up the material with a tarp.
- When dust suppression is not possible and respirable dust meters indicate concentrations above the action levels, a HEPA Filter must be used to prevent against inhalation of contaminated dusts.

4.1.8 Evaluation of Skin Contact and Absorption

Skin contact by contaminants may be controlled by use of proper hygiene practices, PPE, and good housekeeping procedures. The proper PPE (e.g., Tyvek®, gloves, safety glasses) as described in Section 6.0 will be worn for all activities where contact with potential contaminated media or materials are expected.

4.1.9 Other Chemical Hazards

Chemicals not identified in this HASP may be used during the Site Characterization activities. Prior to the initiation of any on-site tasks, each Contractor, Subcontractor, or Consultant will provide Material Safety Data Sheets to the SSO for each of the chemicals to be used. The MSDSs will be maintained at the Site by the SSO and all site workers and visitors who may potentially be exposed to the chemicals will be made aware of these hazards and the location of the on-site MSDSs during a hazard briefing session by the SSO. MSDSs of commonly used compounds are located in Appendix K.

4.2 Physical Hazards

4.2.1 High Loss Potential Physical Hazards

Activities to be conducted at the Site may involve operations that have the potential for a serious injury to occur, and can include the following:

- Heavy Equipment Operation
- Excavation and Trenching
- Soil Boring Installation
- Monitoring Well Abandonment

Other potential high-loss activities that are not anticipated based on the current RAWP include:

- Lockout/Tag out
- Confined Space Entry
- Line Breaking
- Work within a Temporary Structure

In all cases, high-loss potential activities are conducted by the Contractor. Contractor is required to have a comprehensive HASP to cover these types of activities. At no time will Consultant engage in any such activities without approval and revision of Consultant's HASP by Consultant's CHSO.

4.2.1.1 Lockout/Tag out

Lockout/tag out procedures are not anticipated based on the current work scope. However, the Contractor will conduct any necessary lockout/tag out under an approved lockout/tag out program at minimum equivalent to National Grid's program, which is included in Appendix H.

4.2.1.2 Heavy Equipment Operation

Heavy equipment will be operated under the following conditions:

- The operation of heavy equipment will be limited to authorized personnel specifically trained in its operation. Subcontractor site supervisors must provide this information to the SSO.
- Equipment will be inspected daily to ensure that there are no exposed belts, fans, etc.

- When not in use, hydraulic and pneumatic components will be left in down or "dead" position.
- Roll-over protection will be provided on hilly terrain.
- Maintain all emergency shut-offs in sound working condition.
- The operator will use the safety devices provided with the equipment, including seat belts. Backup warning indicators and horns will be operable at all times.
- While in operation, all personnel not directly required in the area will keep a safe distance from the equipment.
- Personnel directly involved in activity will avoid moving in the path of operating equipment or any portion thereof. Areas blinded from the operator's vision will be avoided. Spotters will be used when personnel may be in areas where the operator's view is obstructed.
- Additional riders will not be allowed on equipment unless it is specifically designed for that purpose.

4.2.1.3 Excavation and Trenching

The safety requirements for each excavation must be determined by a competent person who is capable of identifying existing and predictable hazards and work conditions that are unsanitary, hazardous, or dangerous to employees. The competent person must also have the authorization to take prompt corrective measures to eliminate unsatisfactory conditions.

Subsurface utilities including natural gas and water mains are located in the vicinity of the Site.

The following are general requirements for work activities in and around excavations:

- Prior to initiation of any excavation activity (or ground intrusive activity, such as drilling), the location of underground installations will be determined. The New York State one-call center will be contacted by the Contractor / Subcontractor a minimum of 72 hours prior to excavation activities. It may also be necessary to temporarily support underground utilities during excavation. When excavations approach the estimated location of underground installations, the exact location of the underground installations will be determined by means that are safe to workers, i.e., hand dig, test pits, etc.
- All excavations will be inspected daily by the competent person prior to commencement of work activities. Evidence of cave-ins, slides, sloughing, or surface cracks or excavations will be cause for work to cease until necessary precautions are taken to safeguard employees.
- Excavated and other materials or equipment that could fall or roll into the excavation will be placed at least 5 feet from the edge of the excavation.

- Vehicular traffic and heavy equipment will remain at least four feet from the face of the excavation.
- All excavation operations will cease immediately during hazardous weather conditions such as high winds, heavy rain, lightning and heavy snow.

4.2.1.4 Excavation Entry Safety

Entry into the excavation is not anticipated under the current RAWP. However, should entry into an excavation/trench that is greater than 4-feet deep become necessary, the following procedures will be implemented:

- The sides of all excavations in which personnel will be exposed to the danger of moving ground or potential cave-in will be adequately sloped, shored or contained within a trench box, or similar support structure designed and sealed by a professional engineer.
- The air in the excavation will be tested for oxygen deficiency, explosivity, organic vapors, carbon monoxide and hydrogen sulfide. The bottom, middle, top and corners of the excavation will be tested prior to entry and continuously during excavation entry.
- Ramps or ladders will be used to provide access and sufficient egress to the excavation. Ladders must be supplied for every 25 feet of lateral travel. Ladders must be securely anchored at the top or bottom and must extend at least 3 feet above the ground surface. A competent person is required to design ramps (those used exclusively for employee access/egress). Such ramps are constructed of wood, steel or earth. Structural ramps, used for vehicle/equipment access (steel or wood) must be designed by a competent person qualified in structural design. Vehicle ramps built of earth are not considered "structural ramps".
- Employees will not work in excavations where there is an accumulation of water or in excavations where water is accumulating unless adequate precautions have been taken to protect employees against the hazard s posed by water accumulation.
- Emergency rescue equipment such as breathing apparatus, a safety harness and line, or a basket stretcher will be readily available where hazardous atmospheric conditions exist or may reasonably be expected to develop during work in an excavation.

4.2.1.5 Working within a Temporary Enclosure

Work within a temporary enclosure is not anticipated for the current scope of work. However, should such work become necessary, the procedures of Appendix I will apply if the enclosure is a confined space.

4.2.1.6 Confined Space Entry

Confined space entry is not anticipated as part of the RAWP. However, the potential exists that the Contractor may need to enter the former holder foundation for the purposes of addressing residual coal tar impacts. If this space is deemed a confined space, the procedures of Appendix I will apply. Consultant personnel will not enter a confined space without prior approval and revision of this HASP by Consultant's CHSO.

4.2.2 Line Breaking

Line breaking in not anticipated as part of the RAWP scope of work. If line breaking activities occur, the potential exists for exposure to suspect asbestos containing materials (ACM). If suspect ACM is encountered, work will stop and will not resume until asbestos trained personnel have been upgraded to the proper PPE, and water is available to keep the work area and the suspect ACM wetted. All workers are to have completed asbestos awareness training prior to working with suspect ACM. The project management team (National Grid Project Manager, Consultant Project Manager, and Contractor Project Manager and CESM) is to be notified if suspect ACM is encountered.

4.2.3 Fire and Explosion

Subsurface utilities are not anticipated in the vicinity of the excavation area. However, when conducting excavating activities, the opportunity of encountering fire and explosion hazards also exists from contamination in the soils and the possibility of free product in the underground structures and pipelines. Additionally, the use of a diesel–powered excavating equipment could present the possibility of encountering fire and explosion hazards. Prevention and management of fire and explosion potential is addressed in the Contractor Project Specific AHA included in Appendix C of this HASP. All Contractor and Subcontractor activities will conform with all applicable state, federal, and local regulations pertaining to fire and explosion prevention procedures.

4.2.4 Cold Stress

At certain times of the year, workers may be exposed to the hazards of working in cold environments. Potential hazards in cold environments include frostbite, trench foot or immersion foot, hypothermia as well as slippery surfaces, brittle equipment, poor judgment and unauthorized procedural changes. The procedures to be followed are found in Appendix E, the Cold Stress Program.

4.2.5 Heat Stress

Heat stress is a significant potential hazard, which is greatly exacerbated with the use of PPE in hot environments. The potential hazards of working in hot environments include dehydration, cramps, heat rash, heat exhaustion, and heat stroke. A heat stress prevention program will be implemented when ambient temperatures exceed 70ºF for personnel wearing chemical protective clothing. The procedures to be followed are found in Appendix F, the Heat Stress Program.

4.2.6 Noise

Noise is a potential hazard associated with the operation of heavy equipment, power tools, pumps and generators. Site workers who will perform suspected high noise tasks and operations for short durations (less than 1 hour) will wear earplugs. If deemed necessary by the SSO, the CHSO will be consulted on the need for additional hearing protection and the need to monitor sound levels for site activities. Other workers who do not need to be in proximity of the noise should distance themselves from the equipment generating the noise.

4.2.7 Hand and Power Tools

In order to complete the various tasks for the project, personnel will utilize hand and power tools. The use of hand and power tools can present a variety of hazards, including physical harm from being struck by flying objects, being cut or struck by the tool, fire, and electrocution. Work gloves, safety glasses, and hard hats will be worn by the operating personnel at all times when utilizing hand and power tools and Ground Fault Circuit Interrupter (GFCI)-equipped circuits will be used for all power tools.

4.2.8 Slips, Trips, and Falls

Working in and around the Site will pose slip, trip, and fall hazards due to slippery surfaces that may be oil covered, or from surfaces that are wet from rain or ice. Excavation at the Site will cause uneven footing in the trenches and around the spoil piles. Contractors will employ good work practices and housekeeping procedures to minimize the potential for slip, trip, and fall hazards.

4.2.9 Manual Lifting

Manual lifting of heavy objects such as sections of pipe may be required. Failure to follow proper lifting technique can result in back injuries and strains. Site workers should use power equipment to lift heavy loads whenever possible and should evaluate loads before trying to lift them (i.e. they should be able to easily tip the load and then return it to its original position). Carrying heavy loads with a buddy and proper lifting techniques include: 1) make sure footing is solid, 2) make back straight with no curving or slouching, 3) center

body over feet, 4) grasp the object firmly and as close to your body as possible, 5) lift with legs, and 6) turn with your feet, don't twist. In addition, hand digging may present lifting/ergonomic hazards.

4.2.10 Steam, Heat, Splashing

Exposure to steam/heat/splashing hazards can occur during steam cleaning activities. Exposure to steam/heat/splashing can result in scalding/burns, eye injury, and puncture wounds. Proper PPE will be worn during all steam cleaning activities including rain gear or Tyvek®, hardhat equipped with splashguard, and water resistant gloves and boots.

4.3 Biological Hazards

During the course of the project, there is a potential for workers to come into contact with biological hazards such as animals, insects, and plants. Workers should be aware of these potential hazards that are discussed below.

4.3.1 Animals

During the conduct of site operations, wild animals such as stray dogs or cats, raccoons, and rats may be encountered. Workers will use discretion and avoid all contact with wild animals. If these animals present a problem, efforts will be made to remove these animals from the Site by contacting a licensed animal control technician.

4.3.2 Insects

Insects, including bees, wasps, hornets, mosquitoes, ticks, and spiders, may be present at the Site making the chance of a bite possible. Some individuals may have a severe allergic reaction to an insect bite or sting that can result in a life threatening condition. Some insect bites can transmit diseases such as Lyme Disease or a virus such as West Nile; any individuals who have been bitten or stung by an insect should notify the SSO. The following is a list of preventive measures:

- Apply insect repellent prior to performing any field work and as often as needed throughout the work shift
- Wear proper protective clothing (work boots, socks and light colored pants)
- When walking in wooded areas, avoid contact with bushes, tall grass, or brush as much as possible
- Field personnel who may have insect allergies will have bee sting allergy medication on site and should provide this information to the SSO prior to commencing work.

4.3.2.1 Lyme Disease

Lyme disease is caused by infection from a deer tick that carries a spirochete. During the painless tick bite, the spirochete may be transmitted into the bloodstream often after feeding on the host for 12 to 24 hours. The ticks that cause the disease are often no bigger than a poppy seed or a comma in newsprint. The peak months for human infection are from May to September.

Symptoms appear in three stages. First symptoms usually appear from 2 days to a few weeks after a person is bitten by an infected tick. Symptoms usually consist of a ring-like red rash on the skin where the tick was attached. The rash is often bulls-eye like with red on the outside and clear in the center. The rash may be warm, itchy, tender, and/or "doughy." Unfortunately, this rash appears in only 60 to 80% of infected persons. An infected person also has flu-like symptoms of a stiff neck, chills, fever, sore throat, headache, fatigue and joint pain. These symptoms often disappear after a few weeks.

The second stage symptoms, which occur weeks to months later include meningitis, severe headache, drooping of the muscles on the face, called Bell's Pals, encephalitis, numbness, withdrawal and lethargy. These symptoms may last for several weeks to several months. Third stage symptoms, which occur months or years later include arthritis, heart problems, and loss of memory. The third stage symptoms may mimic multiple sclerosis and Alzheimer's disease.

It is recommended that personnel check themselves when in areas that could harbor deer ticks, wear light color clothing and visually check themselves and their buddy when coming from wooded or vegetated areas. If a tick is found biting an individual, the SSO should be contacted immediately. The tick can be removed by pulling gently at the head with tweezers. If tweezers are not available, cover your fingers (e.g., tissue paper) and use to grasp the tick. It is important to grasp the tick as close to the site of attachment and use a firm steady pull to remove it. Wash hands immediately after with soap and water. The affected area should then be disinfected with an antiseptic wipe. All mouth parts must be removed from the skin. If the tick is removed with breaking off the mouth parts, an irritation or infection may occur. Also, the organism that is causing the disease can still enter the body through the skin. The employee will be offered the option for medical treatment by a physician, which typically involves antibiotics. If personnel feel sick or have signs similar to those above, they should notify the SSO immediately.

Treatment with antibiotics is effective and recovery is usually complete. In the first stage antibiotics are usually given orally. Second and third stage treatment, however is prolonged and recovery may take longer. Antibiotic treatment is usually provided intravenously for second and third stage Lyme disease.

4.3.2.2 West Nile Virus

West Nile Virus (WNV) is a mosquito-borne infection transmitted through the bite of an infected mosquito. The symptoms of WNV can be asymptomatic (no symptoms) or in more serious cases can lead to West Nile fever. West Nile Fever can include fever, headache, tiredness, body ache, an occasional rash on the trunk of the body, and swollen lymph glands, In severe cases, people have developed West Nile encephalitis or meningitis which symptoms include fever, headache, neck stiffness, tremors, coma and in some cases death. The incubation period for the disease is usually 2 to 15 days. The symptoms can range from a few days to several weeks.

Since the initial outbreak in 1999, the virus has spread rapidly throughout New York State. There are about 65 different species of mosquitoes in New York State, but only a small percentage has been associated with the WNV. Most mosquitoes are not infected and the chance of infection from a mosquito bite of an on-site worker is very small. All residents of areas where virus activity has been identified are at risk of getting WNV, but those of the highest risk for becoming seriously ill from WNV are people are over 50 and individuals with compromised immune systems (transplant patients).

The following precautions will be used to help reduce the risk of mosquito bites:

- Reduce mosquito-breeding areas by making sure wheelbarrows, buckets, and other containers are turned upside down when not used so that they do not collect standing water.
- Wear shoes, long pants with bottoms tucked into boots or socks, and a long-sleeved shirt when outdoors for long periods of time, or when many mosquitoes are most active (between dawn and dusk).
- Use mosquito repellant according to the manufacturer's directions when outdoors for long periods of time and when mosquitoes are most active.

4.3.3 Plants

The potential for contact with poisonous plants exists when performing fieldwork in undeveloped and wooded areas. Poison ivy, sumac, and oak may be present on site. Poison ivy can be found as vines on tree trunks or as upright bushes. Poison ivy consists of three leaflets with notched edges. Two leaflets form a pair on opposite sides of the stalk, and the third leaflet stands by itself at the tip. Poison ivy is red in the early spring and turns shiny green later in the spring. Poison sumac can be present in the form of a flat-topped shrub or tree. It has fern-like leaves, which are velvety dark green on top and pale underneath. The branches of immature trees have a velvety "down." Poison sumac has white, "hairy" berry clusters. Poison oak can be present as a sparingly branched shrub. Poison oak is similar to poison ivy in that it has the same leaflet configuration; however, the leaves have slightly

deeper notches. Prophylactic application of Tecnu® may prevent the occurrence of exposure symptoms. Post exposure over the counter products are available and should be identified at the local pharmacist. Susceptible individuals should identify themselves to the SSO.

Contact with poison ivy, sumac, or oak may lead to a skin rash, characterized by reddened, itchy, blistering skin which needs first aid treatment. If you believe you have contacted one of these plants, immediately wash skin thoroughly with soap and water, taking care not to touch your face or other body parts.

4.3.4 Blood Poisoning

Blood poisoning is a term used to indicate a large number of bacteria present in the circulating blood. The most common symptom of blood poisoning is the reddening of skin which advances toward the heart. For example, if the point of contact is the hand, then a red line will appear at the hand and extend up the arm towards the heart.

Signs and symptoms include swelling, stiffness and tenderness in the affect area, fatigue chills and fever, pustules, abscesses. If allowed to progress without treatment, the organisms may multiply and cause an overwhelming infection which can lead to death.

Personal protective equipment will be worn to prevent direct contact with equipment that may be contaminated with bacteria such as well caps and soil.

4.4 Hazard Analysis

This section includes an AHA to assess and control potential site hazards for each general project task. A more detailed Contractor Project-specific AHA is included in Appendix C, which addresses the health and safety hazards of each specific project task or operation and includes requirements and procedures for worker protection.

WORK TASK	POTENTIAL HAZARDS	CONTROLS
Activity: Site Mobilization Activities		
Site Mobilization	Biological Hazards.	Proper clothes, body inspections, insect repellant.
	Slip, Trip, Fall Hazards	Identify and repair potential tripping hazards. Maintain safe and orderly work areas.
	Traffic Hazards	Use traffic cones, signage, and traffic safety vests in accordance with New York City Traffic Regulations. Use a traffic spotter
	Adverse Weather	Monitor weather daily. Discontinue work as necessary based on lightning, limited visibility, impaired mobility, etc.
	Noise	Distancing form noise, hearing protection
	Heat/Cold Stress	Acclimatization, work/rest regimes, drinking warm/cold fluids.
Activity: Construction Oversight and Subsurface Soil Sample Collection		
Construction Oversight and Subsurface Soil Sample Collection	Heavy Equipment / Proximity to Heavy Equipment	Distancing, safe work practices, inspections, wear hearing protection.
	Adverse Weather	Monitor weather daily. Discontinue work as necessary based on lightning, limited visibility, impaired mobility, etc.
	Heat/Cold Stress	Acclimatization, work/rest regimes, drinking warm/cold fluids.
	Slip/Trip/Fall	Maintain safe and orderly work areas. Unloading areas should be on even terrain. Identify and repair potential tripping hazards.
	Noise	Distancing form noise, hearing protection

WORK TASK	POTENTIAL HAZARDS	CONTROLS
Construction Oversight and Subsurface Soil Sample Collection (Cont)	Tool Use	Use proper guarding, inspections, wear safety glasses with side shields, hearing protection.
	Contaminant Contact	Wear protective coveralls (e.g., Tyvek®) (if needed) with shoe covers, nitrile gloves, and safety glasses when handling samples. Dispose of gloves after sampling. Personal protective equipment will be decontaminated and disposed of in general accordance with Section 10 of this HASP.
	Exposure to vapors from contaminated soils	Use work zone air monitoring equipment including photoionization detector and multiple gas meter (that monitors % oxygen, lower explosive limit, hydrogen sulfide and hydrogen cyanide), and dust monitor to monitor the workzone as specified in Section 8.0 of the HASP. If air monitoring action levels are exceeded, then engineering controls will be implemented. If excursions of the action levels persist, then upgrade to half or full face respirator with HEPA/organic vapor cartridge as indicated in Section 6.0 of the HASP. Perimeter air monitoring of the area immediately surrounding the work zone will be completed in accordance with the CAMP and RAWP.

5.0 Training

5.1 General Health and Safety Training

In accordance with 29 CFR 1910.120, hazardous waste site workers will, at the time of job assignment, have received a minimum of 40 hours of initial health and safety training for hazardous waste site operations unless otherwise noted in the above reference. At a minimum, the training will have consisted of instruction in the topics outlined in the standard. Personnel who have not met the requirements for initial training will not be allowed to work in any site activities in which they may be exposed to hazards (chemical or physical). Proof of training will be submitted to the SSO prior to the start of field activities.

5.2 Annual Eight-Hour Refresher Training

Annual eight-hour refresher training will be required of all hazardous waste site field personnel in order to maintain their qualifications for fieldwork. The training will cover a review of 29 CFR 1910.120 requirements and related company programs and procedures. Proof of current 8-hour refresher training will be submitted to the SSO prior to the start of field activities.

5.3 Supervisor Training

Personnel acting in a supervisory capacity will have received 8 hours of instruction in addition to the initial 40 hours training.

5.4 Site Safety Officer (SSO)

The SSO will have completed the following training and work experience prior to the commencement of site activities:

- One year of construction experience
- 40-Hour Hazardous Materials training course
- Training specific to work activities (i.e., excavation and trenching activities, lock out/tag out, etc.).

5.5 Site-Specific Training

Prior to commencement of field activities, the SSO will ensure all field personnel assigned to the project will have completed training that will specifically address the activities, procedures, monitoring, and equipment used in the site operations. It will include site and

facility layout, hazards and emergency services at the Site and will highlight all provisions contained within this HASP. This training will also allow field workers to clarify anything they do not understand and to reinforce their responsibilities regarding safety and operations for their particular activity. Personnel that have not received site-specific training will not be allowed on site.

5.6 On-Site Safety Briefings

Project personnel and visitors will be given health and safety briefings daily by the SSO to assist site personnel in safely conducting work activities. The briefings will include information on new operations to be conducted, changes in work practices or changes in the site's environmental conditions, as well as periodic reinforcement of previously discussed topics. The briefings will also provide a forum to facilitate conformance with safety requirements and to identify performance deficiencies related to safety during daily activities or as a result of safety inspections. The meetings will also be an opportunity to periodically update the crews on monitoring results.

5.7 First Aid and CPR

The SSO will identify individuals certified in first aid and CPR, or identify individuals for such training in order to ensure that emergency medical treatment is available during field activities. The training will be consistent with the requirements of the American Red Cross Association and will include training on blood borne pathogens.

5.8 Hazard Communication

Hazard communication training will be provided in accordance with the requirements contained in the Hazard Communication Program in Appendix D.

6.0 Personal Protective Equipment

The PPE specified in Table 6-1 represents PPE selection required by 29 CFR 1910.132, and is based on the AHA of Section 4. Specific information on the selection rationale for each activity can be found under Appendix G - Personal Protective Equipment (PPE) Program.

The PPE program addresses elements, such as PPE selection based on site hazards, use and limitations, donning and doffing procedures, maintenance and storage, decontamination and disposal, training and proper fitting, inspection procedures prior to / during / and after use, evaluation of the effectiveness of the PPE program, and limitations during temperature extremes, heat stress, and other appropriate medical considerations.

A summary of PPE for each level of protection is as follows:

Safety Equipment	Level A	Level B	Level C	Level D
Tyvek® suit or work overalls				•
Hard hats with splash shields and/or safety glasses			•	•
Steel-toe boots with over boots			•	•
Chemical-resistant gloves as appropriate for work being performed and materials handled			•	•
Disposable Respirator/ Half- or full-face respirators as approved by the CHSO/SSO			•	
Tyvek® splash-resistant suit or chemical resistant clothing appropriate for the work being performed or materials handled			•	
Chemical-resistant clothing		•		
Pressure-demand, full-face SCBA or pressure-demand supplied air respirator with escape SCBA	•	•		
Inner and outer chemical-resistant gloves	•	•		
Chemical-resistant safety boots or shoes	•	•		
Two-way radio	•	•		
Fully encapsulating chemical-resistant suit	•			

Table 6-1 describes the anticipated task-specific PPE. For activities not covered by Table 6-1, the SSO/CHSO will revise the hazard assessment and select the PPE using the information provided in Appendix G.

6.1 PPE Abbreviations and Selection

HEAD PROTECTION HH = Hard Hat HEARING PROTECTION EP = ear plugs	EYE/FACE PROTECTION PFS =Plastic Face shield SG = ANSI approved safety glasses with side shields	RESPIRATORY PROTECTION Level D = No respiratory protection required Level C = Half face or full face air purifying respirator with approved cartridges (HEPA filter/organic vapor cartridge) Level B = Full face air supplied respirator with escape bottle
HAND PROTECTION LWG = Leather Work Gloves Nit = Nitrile Gloves	BODY PROTECTION Poly = Polyethylene coated Tyvek® coveralls or apron WC = Work clothes	FOOT PROTECTION OB = Over boot STB = Leather work boots with steel toe

Table 6.1-PERSONAL PROTECTIVE EQUIPMENT SELECTION

TASK	HEAD	EYE/FACE	FEET	HANDS	BODY	HEARING	RESPIRATOR
Mobilization/Demobilization							
Mobilization/ demobilization of equipment and supplies	HH as needed	SG as needed	STB	LWG as needed	WC	EP as needed	Level D
Establishment of site security, work zones and staging area	HH as needed	SG as needed	STB	LWG as needed	WC	EP as needed	Level D
Locate all utilities to and from the site	HH as needed	SG as needed	STB	LWG as needed	WC	EP as needed	Level D
Locate all active utility lines on site	HH as needed	SG as needed	STB	LWG as needed	WC	EP as needed	Level D
Site Characterization Activities							
Subsurface Soil Boring, Soil Vapor and Monitoring Well Installation and Sampling	HH	SG	STB, OB as needed	Nit	WC, Poly as needed	EP	Level D initially, Level C-If action levels exceeded (see Section 8 of HASP)
Survey	HH as needed	SG as needed	STB	LWG as needed	WC	EP as needed	Level D
Groundwater Sampling	HH as needed	SG	STB, OB as needed	Nit	WC, Poly as needed	EP as needed	Level D
Waste Handling	HH	SG	STB, OB as needed	LWG and Nit as needed	WC, Poly as needed	EP as needed	Level D initially, Level C-If action levels exceeded (see Section 8 of HASP)

7.0 Medical Surveillance

All personnel performing field work where potential exposure to contaminants exists at the Site are required to have passed a complete medical surveillance examination in accordance with 29 CFR 1910.120(f) and, where applicable, expanded health standards.

7.1 Medical Surveillance Requirements

A physician's medical release for work will be confirmed by the SSO before a worker can enter the exclusion zone. The examination will be taken annually at a minimum and upon termination of hazardous waste site work if the last examination was not taken within the previous six months. Additional medical testing may be required by the CHSO in consultation with the SSO if an over-exposure or accident occurs, if an employee exhibits symptoms of exposure, or if other site conditions warrant further medical surveillance.

8.0 Work Zone Monitoring

Air monitoring will be performed to identify and quantify airborne levels of hazardous substances and safety and health hazards in order to determine the appropriate level of worker protection needed on site.

The Consultant conducts perimeter air monitoring, and work zone monitoring for Consultant employees. The Consultant will monitor and document daily site conditions and operations on National Grid's behalf.

The Contractor is responsible for the health and safety of Contractor and Subcontractor employees, and conducts work zone monitoring for Contractor and Subcontractor workers.

The CONTRACTOR is required to provide the following equipment for health and safety monitoring of its personnel:

- Photoionization Detector (PID), or Flame Ionization Detector (FID),
- Particulate Meter (PM-10 capable)
- Multiple gas Meter with Combustible Gas Indicator (CGI)/Oxygen (O_2) / H_2S / hydrogen cyanide (HCN) sensors
- Dräger Chip Measurement System (CMS) (or equivalent instrument)
- Sound Level Meter if deemed necessary by the SSO and CHSO(type to be appropriate to the activities performed)

The Consultant and Contractor will adopt the air monitoring action levels and contingency plan presented within the Table 8-1 below. In the event that a Contractor has a more stringent action level requirement than the HASP, the Contractor will notify National Grid and the Consultant SSO and the CHSO to rectify the action level discrepancy.

The perimeter air monitoring will be conducted during excavation to conform to the CAMP guidelines presented by the New York State Department of Health in Appendix 1A of the Draft New York State Department of Conservation DER-10 Technical Guidance for Site Investigation and Remediation. The CAMP is located in Appendix L.

Total volatile organic compounds (VOCs), respirable particulate matter, and odor will be monitored during all intrusive subsurface soil activities in accordance with the CAMP.

Table 8-1 provides a summary of real time air monitoring action levels and contingency plans for work zone activities.

TABLE 8-1: Work Zone Air Monitoring Action Levels

Air Monitoring Instrument	Monitoring Location	Action Level	Site Action
PID/FID	Breathing Zone	0.5 ppm	Use Dräger Chip Measurement System (CMS) tube for benzene or Z-nose® to verify if concentration is benzene.
PID/FID	Breathing Zone	0 - 50 ppm	No respiratory protection is required.
		50 - 250 ppm	Use Dräger Chip Measurement System (CMS) tube for benzene or Z-nose® to verify if concentration is benzene. Stop work, withdrawal from work area, institute engineering controls, if levels persist Upgrade to Level C.
		> 250 ppm	Stop work, withdraw from work area; notify SSO & CHSO.
Oxygen meter (O_2)	Breathing Zone	< 20.7%	Stop work; withdraw from work area; ventilate area, notify SSO & CHSO.
		> 21.1%	Stop work; withdraw from work area; notify SSO & CHSO.
Hydrogen Sulfide (H_2S) meter	Breathing Zone	<5 ppm	No respiratory protection is required.
		>5 ppm	Stop work, cover excavation, withdraw from work area, institute engineering controls, and notify SSO & CHSO.
Hydrogen Cyanide (HCN) meter	Breathing Zone	<1.0 ppm	Run CMS Dräger tube, continue monitoring with real time meter, and continue work if CMS Dräger Tube Reading is less than 2ppm.
		1.0< HCN <2.0 ppm	Run CMS Dräger tube and confirm concentration is less than 2.0 ppm, notify SSO and CHSO. Run CMS Dräger tube for sulfur dioxide, hydrogen sulfide, and phosphine chip potential interferences. Continue to monitor with real time meter.
		>2.0 ppm	Stop work, and move (with continuous HCN monitoring meter) at least 25 feet upwind of the excavation until continuous meter reads less than 1 ppm, Notify SSO & CHSO. Run CMS Dräger hydrogen cyanide chip and re-evaluate activity, continue monitoring with a real time meter, resume work if concentrations read less than 1.0 ppm.
Combustible Gas Indicator (CGI)	Excavation/ Work Zone	< 10 % Lower Explosive Limit (LEL)	Investigate possible causes, allow excavation to ventilate; use caution during procedures.
		> 10% LEL	Stop work; allow excavation, borehole to ventilate to < 10% LEL; if ventilation does not result in a decrease to < 10% LEL, withdraw from work area; notify SSO & CHSO.
Particulate Meter	Excavation/ Work Zone	0.150 µg/m^3	Implement work practices to reduce/minimize airborne dust generation, e.g., spray/misting of soil with water.

Carry cellular telephones for communication in a designated area away from subsurface investigation and sampling activities. Cellular phone use will not be permitted in the Exclusion Zone while work is being conducted in Level C PPE.

9.0 Site Control Measures

9.1 Site Zones

Site zones are intended to control the potential spread of contamination and to assure that only authorized individuals are permitted into potentially hazardous areas. A three-zone approach will be utilized. It will include an Exclusion Zone (EZ), Contamination Reduction Zone (CRZ), and a Support Zone (SZ). Specific zones will be established on the work site when operations begin for each task requiring such delineation (i.e. drilling, construction, excavation, trenching in impacted areas of the Site). Maps depicting the zones will be available at the Site.

This project is being conducted under the requirements of 29 CFR 1910.120, and any personnel working in an area where the potential for exposure to site contaminants exists, will only be allowed access after proper training and medical documentation as required by National Grid. These records are maintained by the CHSO, and copies are provided to the SSO prior to mobilization for project activities.

The following will be used for guidance in revising these preliminary zone designations, if necessary.

Support Zone - The SZ is an uncontaminated area that will be the field support area for most operations. The SZ provides for field team communications and staging for medical emergency. Appropriate sanitary facilities and safety equipment will be located in this zone. Potentially contaminated personnel/materials are not allowed in this zone. The only exception will be appropriately packaged/decontaminated and labeled samples.

Contamination Reduction Zone - The CRZ is established between the EZ and the SZ. The CRZ contains the contamination reduction corridor and provides an area for decontamination of personnel and portable hand-held equipment, tools and heavy equipment. A personnel decontamination area will be prepared at each exclusion zone. The CRZ will be used for Exclusion Zone entry and egress in addition to access for heavy equipment and emergency support services.

Exclusion Zone - All activities which may involve exposure to site contaminants, hazardous materials and/or conditions should be considered an exclusion zone. This zone will be clearly delineated by cones, tapes or other means. The SSO may establish more than one EZ where different levels of protection may be employed or different hazards exist. The size of the EZ will

be determined by the site SSO allowing adequate space for the activity to be completed, field members and emergency equipment.

9.2 Communications

The following communications equipment will be specified as appropriate:

- Telephones - A cellular telephone will be located in the SZ for communication with emergency support services/facilities and the home office. Personnel in the EZ can carry cellular telephones for communication in a designated area way from subsurface investigation and sampling activities. Cellular phone use will not be permitted in the EZ while work is being conducted in Level C PPE.

- Hand Signals - Hand signals will be used by field teams along with the buddy system. They will be known by the entire field team before operations commence and their use covered during site-specific training. Typical hand signals are the following:

Signal	Meaning
Hand gripping throat	Out of air, can't breathe
Grip on a partner's wrist or placement of both hands around a partner's waist	Leave area immediately, no debate
Hands on top of head	Need assistance
Thumbs up	Okay, I'm all right, I understand.
Thumbs down	No, negative.

10.0 Decontamination

PPE helps prevent the wearer from becoming contaminated or inhaling contaminants, and good work practices help reduce contamination on protective clothing, instruments, and equipment. Even with these safeguards, contamination may occur. Harmful materials can be transferred to clean areas, exposing unprotected personnel. To prevent such occurrences, the following contamination reduction and decontamination procedures have been developed.

10.1 Minimization of Contact with Contaminants

During completion of all site activities, personnel should attempt to minimize the degree of contact with contaminated materials. This involves a conscientious effort to keep "clean" during site activities. All personnel should minimize kneeling, splash generation, and other physical contact with contamination. This may ultimately minimize the degree of decontamination required and the generation of waste materials from site operations.

10.2 Personnel Decontamination

Personnel hygiene, coupled with diligent decontamination, will significantly reduce the potential for exposure. Consideration will be given to prevailing wind directions so that the decontamination line, the support zone, and contamination reduction zone exit is upwind from the exclusion zone and the first station of the decontamination line. Decontamination will be performed by removing all PPE used in EZ and placing in drums/trash cans at CRZ. Disinfecting hand wipes will be available for wiping hands and face. For Level D Decontamination, personnel should wash and rinse gloves, and use anti bacterial wipes/gel and wash and rinse hands and face with potable water.

For Level C Decontamination, personnel should wash and rinse gloves and over boots, remove boot covers, remove outer gloves, remove Tyvek® splash-resistant suit or chemical resistant clothing, wash inner gloves, remove respirator, rinse inner gloves, remove inner gloves and wash and rinse hands and face.

If exposed to subsurface soils or groundwater, wash with soap and water.

10.3 Emergency Decontamination

If circumstances dictate that contaminated clothing cannot be readily removed, then remove gross contamination; wrap injured personnel with clean garments/blankets to avoid contaminating other personnel or transporting equipment. If the injured person can be moved, he/she will be moved to the exclusion zone boundary and decontaminated by site

personnel as described above before emergency responders handle the victim. If the person cannot be moved because of the extent of the injury (a back or neck injury) provisions will be made to ensure that emergency response personnel will be able to respond to victim without being exposed to potentially hazardous atmospheric conditions. The only time an injured person should be removed is if the worker's life is threatened to a greater degree than if he/she is left in the spot where the accident occurred. If emergency response personnel have to enter hazardous conditions to respond to victim this should communicated when the emergency call is made and responders can come prepared in appropriate PPE. If the potential for inhalation hazards exist, such as with an open excavation, this area will be covered with plastic sheeting, or similar controls, to eliminate any potential inhalation hazards. All emergency personnel are to be immediately informed of the injured person's condition, potential contaminants, and provided with all pertinent chemical data.

10.4 Hand Held Equipment Decontamination

Hand held equipment includes all monitoring instruments, samples, hand tools, and notebooks. The hand held equipment is dropped at the first decontamination station to be decontaminated by one of the decontamination team members. These items must be decontaminated or discarded as waste prior to removal from the exclusion zone.

To aid in decontamination, monitoring instruments can be sealed in plastic bags or wrapped in polyethylene. This will also protect the instruments against contaminants. The instruments will be wiped clean using antibacterial wipes and paper towels if contamination is visually evident.

Decontamination procedures for sampling equipment, hand tools, etc., will include the use of steam cleaning or a detergent wash, as appropriate for the site conditions. The standard decontamination procedures will be used as presented in the RAWP. All liquids generated in the decontamination will be stored at the Site in drums and then disposed of at an approved facility in accordance with federal, state and local regulations. Personnel performing this task will wear the proper PPE as prescribed in Table 6-1.

10.5 Heavy Equipment Decontamination

Decontamination of chemically contaminated heavy equipment will be accomplished using high-pressure steam or dry decontaminated with brushes and shovels. Decontamination will take place on a decontamination pad and all liquids used in the decontamination procedure will be collected. Vehicles or equipment brought into an exclusion zone will be treated as contaminated, and will be decontaminated prior to removal. All liquids used in the decontamination procedure will be stored at the Site drums and then disposed of at an approved facility in accordance with federal, state and local regulations. Personnel performing this task will wear the proper PPE as prescribed in Table 6-1.

11.0 Emergency Response Plan

This section establishes procedures and provides information for use during a project emergency. Emergencies happen unexpectedly and quickly, and require an immediate response; therefore, contingency planning and advanced training of staff are essential. Specific elements of emergency support procedures which are addressed in the following subsections include communications, local emergency support units, preparation for medical emergencies, first aid for injuries incurred on-site, record keeping, and emergency site evacuation procedures.

11.1 Pre-emergency Planning

Before the field activities begin, the local emergency response personnel may be notified by National Grid of the schedule for field activities and about the materials that are thought to exist on the Site so that they will be able to respond quickly and effectively in the event of a fire, explosion, or other emergency.

In order to be able to deal with any emergency that might occur during remedial activities at the Site, emergency telephone numbers will be readily available in the SSO vehicle or construction office. These telephone numbers are presented in Appendix A. A hospital route map will also be readily available at the Site, and is in Appendix B as Figure 3.

11.2 Roles and Responsibilities

11.2.1 Corporate Health and Safety Officer

The CHSO oversees and approves the Emergency Response Plan and performs audits to determine that the plan is in effect and that all pre-emergency requirements are met. The CHSO acts as a liaison to applicable regulatory agencies and notifies OSHA of reportable accidents.

11.2.2 Site Safety Officer

The SSO is responsible for ensuring that all personnel are evacuated safely and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. The SSO is required to immediately notify the Consultant and National Grid Project Managers, and CHSO of any fatalities or injuries requiring more than basic first aid treatment. The CHSO will notify OSHA within the required time frame if a reportable incident has occurred. The CHSO will be notified of all OSHA recordable injuries, fires, spills, releases or equipment damage in excess of $500 within 24 hours.

The SSO also serves as the Emergency Coordinator. In the event of an emergency, the Emergency Coordinator, with National Grid representatives, will make contact with Local Emergency Response personnel. In these contacts, the Emergency Coordinator will inform response personnel about the nature of work on the Site, the type of contaminants and associated health or safety effects, and the nature of the emergency, particularly if it is related to exposure to contaminants.

The Emergency Coordinator will review this plan and verify emergency phone numbers, identify hospital routes, and will ensure the appropriate emergency equipment is available and in working order prior to beginning work on site.

The Emergency Coordinator will implement the Emergency Response Plan whenever conditions at the Site warrant such action.

11.2.3 Site Personnel

Site personnel are responsible for knowing the Emergency Response Plan and the procedures contained herein. Personnel are expected to notify the Emergency Coordinator of situations that could constitute a site emergency.

11.3 Evacuation Routes and Procedures

All project personnel will be instructed on proper emergency response procedures and locations of emergency telephone numbers during the initial site safety meeting. If an emergency occurs at the work area, including but not limited to fire, explosion, or significant release of toxic gas into the atmosphere, immediate evacuation of all personnel is necessary due to an immediate or impending danger. All heavy equipment will be shut down and all personnel will evacuate the work areas and assemble at a pre-determined location.

11.4 Contingency Plans

11.4.1 Fire Prevention and Protection

In the event of a fire or explosion, procedures will include immediately evacuating the work area. The Emergency Coordinator will immediately notify the local fire and police departments. No personnel will fight a fire beyond the stage where it can be put out with a portable extinguisher (incipient stage).

Fires will be prevented by adhering to the following precautions:

- Good housekeeping and storage of materials
- Storage of flammable liquids and gases away from oxidizers

- No smoking in the exclusion zone or any work area
- No hot work without a properly executed hot work permit
- Shutting off engines to refuel
- Grounding and bonding metal containers during transfer of flammable liquids
- Use of UL approved flammable storage cans
- Fire extinguishers rated at least 10 pounds ABC located on all heavy equipment, in all trailers and near all hot work activities
- Monthly inspections of all fire extinguishers.

The SSO is responsible for the maintenance of fire prevention and/or control equipment. The SSO is responsible for the control of fuel source hazards.

11.4.2 Overt Chemical Exposure

The following are standard procedures to treat chemical exposures. Other, specific procedures detailed on the Material Safety Data Sheet will be followed as necessary. If first aid or emergency medical treatment is necessary the Emergency Coordinator will contact the appropriate emergency facilities.

SKIN AND EYE CONTACT:	Use copious amounts of soap and water. Wash/rinse affected areas thoroughly, then provide appropriate medical attention. Eyes should be rinsed for 15 minutes upon chemical contamination. Skin should also be rinsed for 15 minutes if contact with caustics, acids or hydrogen peroxide occurs. Transport to hospital or local medical provider.
INHALATION:	Move to fresh air. Decontaminate. Transport to hospital or local medical provider.
INGESTION:	Decontaminate and transport to emergency medical facility.
PUNCTURE WOUND OR LACERATION:	Decontaminate and transport to emergency medical facility.

11.4.3 Decontamination during Medical Emergencies

If emergency life-saving first aid and/or medical treatment are required, normal decontamination procedures may need to be abbreviated or postponed. The SSO or designee will accompany contaminated victims to the medical facility to advise on matters involving decontamination, when necessary. The outer garments can be removed if they do not cause delays, interfere with treatment or aggravate the problem. Respiratory equipment must always be removed. Protective clothing can be cut away. If the outer contaminated garments cannot be safely removed on site, a plastic barrier between the injured individual and clean surfaces should be used to help prevent contamination of the inside of ambulances and/or medical personnel. Outer garments may then be removed at the medical facility. No attempt will be made to wash or rinse the victim if his/her injuries are life threatening, unless it is

known that the individual has been contaminated with an extremely toxic or corrosive material which could also cause severe injury or loss of life to emergency response personnel. For minor medical problems or injuries, the normal decontamination procedures will be followed.

11.4.4 Adverse Weather Conditions

In the event of adverse weather conditions, the SSO will determine if work can continue without potentially risking the safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries
- Potential for cold stress and cold-related injuries
- Treacherous weather-related working conditions (hail, rain, snow, ice, high winds)
- Limited visibility (fog)
- Potential for electrical storms
- Earthquakes
- Other major incidents.

Site activities will be limited to daylight hours, or when suitable artificial light is provided, and acceptable weather conditions prevail. The SSO will determine the need to cease field operations or observe daily weather reports and evacuate, if necessary, in case of severe inclement weather conditions.

When severe weather has passed, the SSO will direct all contractors to inspect project equipment to ensure its readiness for operation prior to commencing field activities.

11.4.5 Spill Control and Response

All small hazardous spills/environmental releases will be contained as close to the source as possible. Whenever possible, the MSDS will be consulted to assist in determining the best means of containment and cleanup. For small spills, absorbent materials such as sand, sawdust, or commercial sorbents should be placed directly on the substance to contain the spill and aid recovery. Any acid or caustic spills should be diluted or neutralized carefully prior to attempting recovery. Berms of earthen or sorbent materials can be used to contain the leading edge of the spills. Drains or drainage areas should be blocked. All spill containment materials will be properly disposed. An exclusion zone of 50 to 100 feet around the spill area should be established depending on the size and type of the spill.

Refueling of sampling equipment will be done with NFPA-approved safety cans and by approved USCG refueling methods. Fuel will be stored in containers meeting applicable fuel storage safety regulations.

The Emergency Coordinator should take the following steps:

1. Determine the nature, identity and amounts of major spill components
2. Make sure all unnecessary persons are removed from the spill area
3. Notify appropriate response teams and authorities
4. Use proper PPE in consultation with the SSO and information provided on the MSDS for the spilled material
5. If a flammable liquid, gas or vapor is involved, remove all ignition sources and use non-sparking and/or explosive proof equipment to contain or clean up the spill (diesel only vehicles, air operated pumps, etc.)
6. If possible, try to stop the leak with appropriate material
7. Remove all surrounding materials that can react or compound with the spill
8. Notify the National Grid Project Manager.

11.5 Emergency Contact Information

<table>
<tr><td>Local Police</td><td>(911)</td><td rowspan="11"><u>Directions to Hospital From Site</u>:
(See Figure 3)

Go left onto Lake Avenue and travel to Beekman Street (approximately 0.25 miles).

Take right onto Beekman Street and travel to Church Street (approximately 0.3 miles).

Take left onto Chruch Street and travel approximately 0.1 mile to hospital.</td></tr>
<tr><td>Fire Department</td><td>(911)</td></tr>
<tr><td>Ambulance</td><td>(911)</td></tr>
<tr><td>County Sheriff</td><td>(518) 587-3599</td></tr>
<tr><td>Hospital</td><td>Saratoga Hospital
211 Church Street
(518) 587-3222</td></tr>
<tr><td>Project Manager,
Jerry Zak</td><td>(860) 368-5404 (office)
(860) 558-3866 (cell)</td></tr>
<tr><td>Site Safety Officer,
Tom Shock</td><td>TBD (office)
TBD (cell)</td></tr>
<tr><td>Corporate Health and Safety Officer
Robin DeHate</td><td>(813) 654-8055 (office)
(813) 323-6220 (cell)</td></tr>
<tr><td>Client Contact,
Edward Neuhauser</td><td>(315) 428-3355 (office)
(315) 247-8515 (cell)</td></tr>
<tr><td>NYSDEC Contact,
Scott Deyette</td><td>(518) 402-9662 (office)</td></tr>
<tr><td>NYSDOH Contact-
Deanna Ripstein</td><td>(518) 402-7850 (office)</td></tr>
<tr><td>Nearest Telephone</td><td colspan="2">Cellular</td></tr>
</table>

11.6 Emergency Equipment

The following minimum emergency equipment will be kept and maintained at the Site.

- Industrial first aid kit
- Portable eye washes
- ABC-rated fire extinguishers (one per vehicle and heavy equipment [drill rig and sample vessel])
- Absorbent material [Sorbent pads and booms]
- Bloodborne pathogen kit.

In case of minor injuries, on-site care will be administered with the Site first aid kit. The first aid kit will include at a minimum the items specified in Appendix J of this HASP. A first aid kit will be kept in a waterproof container at the Site. In addition, eye wash, antibacterial wipes/gel, soap, and potable water will be kept at the Site.

For serious injuries that cannot be treated with the first aid kit, call 911 and request emergency medical assistance. Seriously injured persons should not be moved, unless they are in immediate danger.

11.7 Postings

The following information will be posted or be readily visible and available at the Site:

- Emergency telephone numbers
- Hospital Route Map

The expected travel time from the Site to the nearest hospital is approximately 10 minutes, depending on local traffic conditions.

11.8 Restoration and Salvage

After an emergency, prompt restoration of utilities, fire protection equipment, medical supplies and other equipment will reduce the possibility of further losses. Some of the items that may need to be addressed are:

- Refilling fire extinguishers
- Refilling medical supplies
- Recharging eyewashes and/or showers
- Replenishing spill control supplies
- Replacing used air horns.

12.0 Logs, Reports, and Record Keeping

The following is a summary of required health and safety logs, reports, and record keeping. The SSO will maintain an on-site file for all the following logs, reports, and records. The CHSO or designee will maintain a parallel file off-site.

12.1 Medical and Training Records

Copies or verification of training (40 hour, 8 hour, supervisor, and site-specific training) and medical clearance for hazardous waste site work and respirator use will be maintained by the CHSO and copies provided to the SSO prior to the initiation of work on site.

12.2 On-Site Log

A log of personnel on site each day will be kept by the SSO in a field logbook.

12.3 Exposure Records

All personal monitoring results, laboratory reports, calculations, and air sampling data sheets will be maintained by the SSO during site work. At the end of the project they may be maintained in employee files if deemed necessary by the CHSO.

12.4 Accident/Incident Reports

The incident reporting and investigation during site work will follow the Incident Reporting Program in Appendix J.

12.5 OSHA Form 300

An OSHA Form 300 will be maintained at the Contractor or Consultant home office. The SSO may retain a copy of the OSHA Form 300 on site. All recordable injuries or illnesses will be recorded on this form. The incident report form referenced in Appendix J meets the requirements of the OSHA Form 101(supplemental record) and must be maintained with the OSHA Form 300 for all recordable injuries or illnesses.

12.6 Hazard Communication Program/MSDS

Material Safety Data Sheets (MSDSs) will be obtained for applicable substances and included in the site hazard communication file. The hazard communication program will be maintained on site in accordance with 29 CFR 1910.1200 and the Hazard Communication Program in Appendix D.

12.7 Work Permits

All work permits, including hot work and line-breaking permits will be maintained in the project files. Copies of the work permits will also be provided to the SSO, and the National Grid Project Manager.

13.0 Field Personnel Review

This form serves as documentation that field personnel have read, or have been informed of, and understand the provisions of this HASP for the Saratoga (Lake Avenue) site. It is maintained on site by the SSO as a project record. Each field team member will sign this section after training on the contents of this HASP has been completed. Site workers must sign this form after site-specific training is completed and before being permitted to work on site.

I have read, or have been informed of, the Health and Safety Plan and understand the information presented. I have also completed site-specific training for the work detailed in the project Work Plan. I will comply with the provisions contained therein.

PRINT NAME	SIGNATURE	DATE

PRINT NAME	SIGNATURE	DATE

PRINT NAME	SIGNATURE	DATE

Appendix A

Organizational Structure/Contact Information

National Grid
Contact Information

Name	Title	Contact Information
Edward Neuhauser	Project Manager	Office: (315) 428-3355 Mobile: (315) 247-8515 E-mail: Edward.Neuhauser@us.ngrid.com
Gerald Cummins	Project Engineer	Office: Mobile: E-mail: Gerald.Cummins@us.ngrid.com
		Office: Mobile: E-mail:
		Office: Mobile: E-mail:
		Office: Mobile: E-mail:

GEI Consultants, Inc.
Tentative Project Team Contact Information

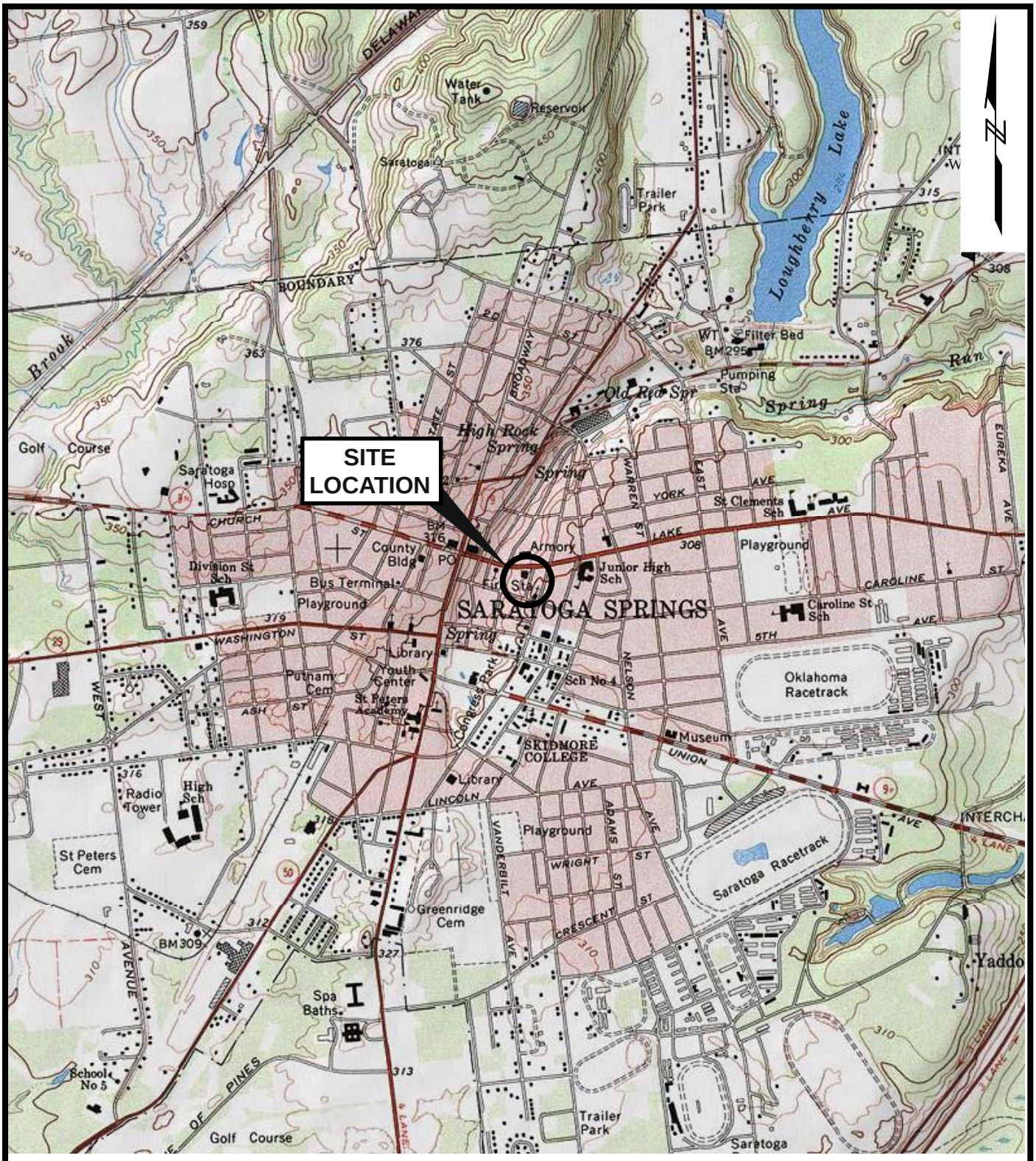
Name	Title	Contact Information
John Ripp	Program Manager	Office: (860) 368-5380 Mobile: (860) 608-9722 E-mail: jripp@geiconsultants.com
Jerry Zak	Project Manager	Office: (860) 368-5404 Mobile: (860) 558-3866 E-mail: jzak@geiconsultants.com
Matt O'Neil	Project Engineer	Office: (860) 368-5406 Mobile: (860) 608-9725 E-mail: moneil@geiconsultants.com
Gary Fuerstenberg	Project Engineer	Office: (860) 368-5330 Mobile: (860) 608-3493 E-mail: gfuerstenberg@geiconsultants.com
Tom Shock	Field Team Leader / Site Safety Officer (SSO)	Office: TBD Mobile: TBD E-mail: tshock@geiconsultants.com
Mike Flynn	Field Team Leader / Site Safety Officer (SSO)	Office: (860) 368-5382 Mobile: (860) 652-5468 E-mail: mflynn@geiconsultants.com
Mike Quinlan	Field Team (CAMP)	Office: 631-760-9300 Mobile: TBD E-mail: mquinlan@geiconsultants.com
Amy Hare	Field Team	Office: 973-509-9650 Mobile: (551) 206-1168 E-mail: ahare@geiconsultants.com
Drew Blicharz	Field Team	Office: (860) 368-5338 Mobile: (860) 287-0188 E-mail: moneil@geiconsultants.com
Robin DeHate	Corporate Health and Safety Officer	Mobile: (813) 323-6220 E-mail: rdehate@geiconsultants.com
Dr. Raymond Harbison	Toxological Consultant MedTox	Office: (813) 910-3104 E-mail: rharbiso@ix.netcom.com

Land Remediation
Contact Information

Name	Title	Contact Information
Keith Decker	Program Director	Office: (518) 766-4105 Mobile: (518) 229-7214 E-mail: kad@land-remediation.com
William Lindheimer	General Manager	Office: (518) 766-4105 Mobile: (518) 937-0473 E-mail: wpl@land-remediation.com
To Be Determined	Site Superintendent	Office: Mobile: E-mail:
		Office: Mobile: E-mail:

Appendix B

Site Specific Information



SOURCE: Map created with TOPO! ® ©2001 National Geographic (www.nationalgeographic.com/topo)

0 2000 4000

SCALE, FEET

HEALTH AND SAFETY PLAN
SARATOGA SPRINGS (LAKE AVE.)
NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

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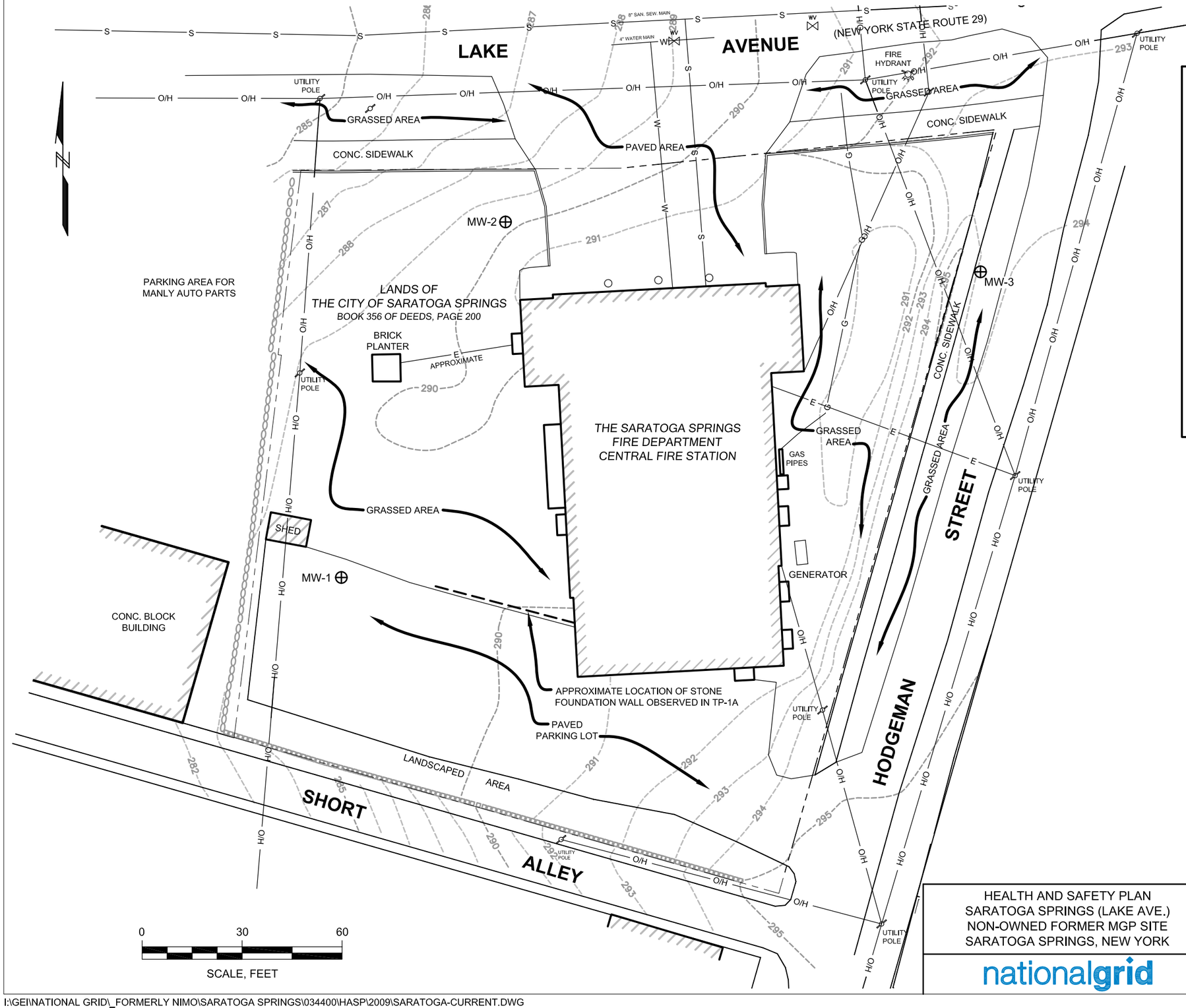
SITE LOCATION

Project 034400-2-2001 | August 2009 | Figure 1

NIMO\SARATOGA\034400\HASP\2009\SARATOGA-LOC.PPT



LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- STONE RETAINING WALL
- BRICK WALL
- 291 — GROUND SURFACE CONTOUR (FT)
- W — WATER LINE
- S — SANITARY SEWER LINE
- G — UNDERGROUND NATURAL GAS LINE
- E — UNDERGROUND ELECTRICAL LINE
- O/H — OVERHEAD ELECTRICAL LINE
- MW-1 ⊕ — 2003 MONITORING WELL LOCATION

SOURCE:

MAP BASED ON "TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS" DATED FEBRUARY 10, 2004, SCALE: 1" = 20', MAP NO. 2004-06-03, BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.

HEALTH AND SAFETY PLAN
SARATOGA SPRINGS (LAKE AVE.)
NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

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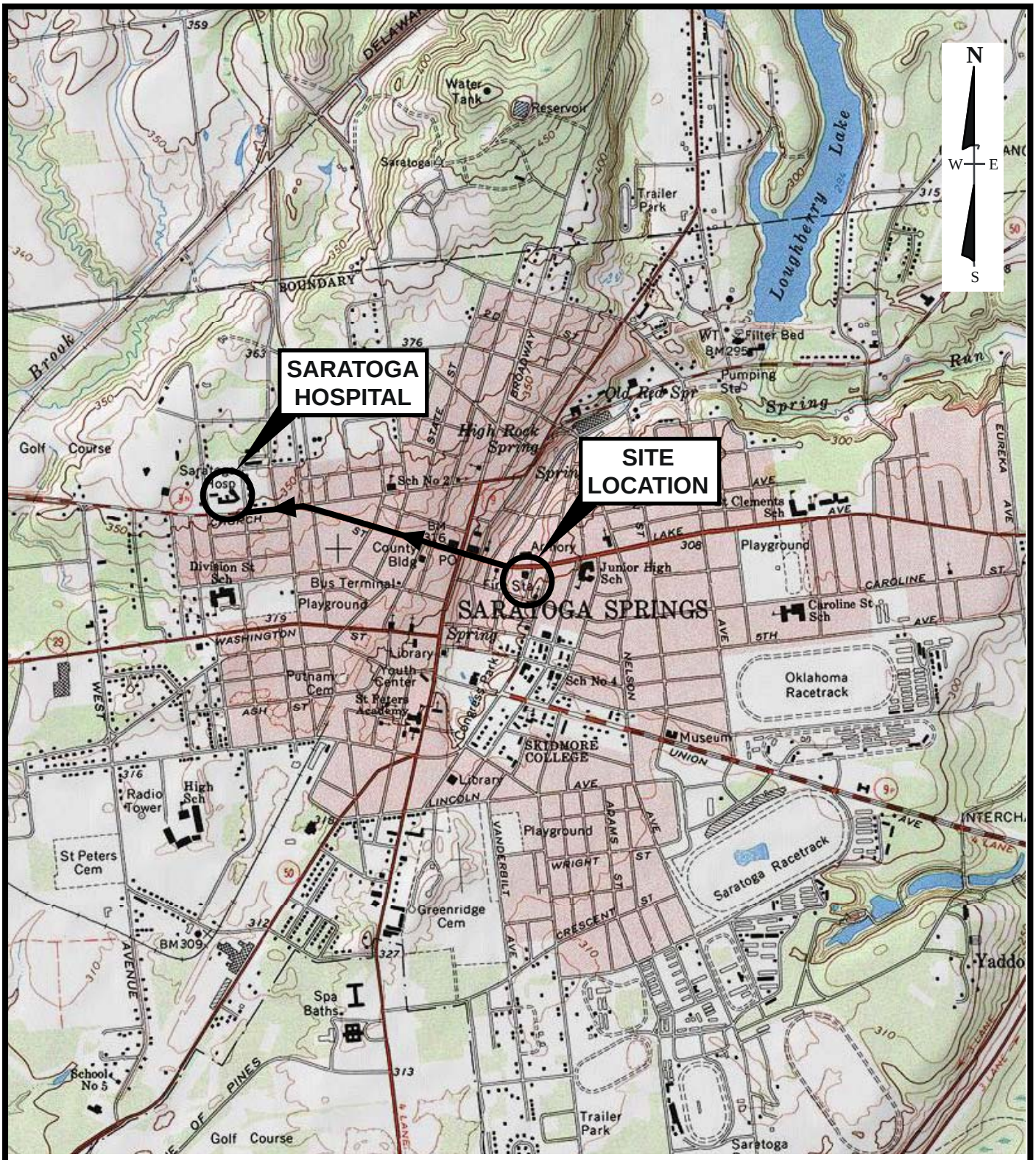
CURRENT SITE CONDITIONS

Project 034400-2-2001 | August 2009 | Figure 2

I:\GEI\NATIONAL GRID_FORMERLY NIMO\SARATOGA SPRINGS\034400\HASP\2009\SARATOGA-CURRENT.DWG



SOURCE: Map created with TOPO! ® ©2001 National Geographic (www.nationalgeographic.com/topo)

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SCALE, FEET

HEALTH AND SAFETY PLAN
SARATOGA SPRINGS (LAKE AVE.)
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SARATOGA SPRINGS, NEW YORK

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ROUTE TO THE HOSPITAL MAP

Project 034400-2-2001 | August 2009 | Figure 3

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Appendix C

Project Specific Activity Hazard Analysis

WORK TASK	POTENTIAL HAZARDS	CONTROLS
ACTIVITY: Site Mobilization Activities		
Site Mobilization	Biological Hazards.	Proper clothes, body inspections, insect repellant.
	Slip, Trip, Fall Hazards	Identify and repair potential tripping hazards. Maintain safe and orderly work areas.
	Traffic Hazards	Use traffic cones, signage, and traffic safety vests in accordance with New York City Traffic Regulations. Use a traffic spotter
	Adverse Weather	Monitor weather daily. Discontinue work as necessary based on lightning, limited visibility, impaired mobility, etc.
	Noise	Distancing form noise, hearing protection
	Heat/Cold Stress	Acclimatization, work/rest regimes, drinking warm/cold fluids.
Protective Equipment: Safety glasses and steel-toe boots. Hard hat and leather work gloves as needed.		

WORK TASK	POTENTIAL HAZARDS	CONTROLS
Activity: Construction Oversight and Subsurface Soil Sample Collection		
Construction Oversight and Subsurface Soil Sample Collection	Heavy Equipment / Proximity to Heavy Equipment	Distancing, safe work practices, inspections, wear hearing protection.
	Excavation Hazards	Sloping/shoring practices, distancing personnel from excavation, hard hat.
	Adverse Weather	Monitor weather daily. Discontinue work as necessary based on lightning, limited visibility, impaired mobility, etc.
	Heat/Cold Stress	Acclimatization, work/rest regimes, drinking warm/cold fluids.
	Slip/Trip/Fall	Maintain safe and orderly work areas. Unloading areas should be on even terrain. Identify and repair potential tripping hazards.
	Noise	Distancing form noise, hearing protection

WORK TASK	POTENTIAL HAZARDS	CONTROLS
Activity: Construction Oversight and Subsurface Soil Sample Collection		
Construction Oversight and Subsurface Soil Sample Collection	Tool Use	Use proper guarding, inspections, wear safety glasses with side shields, hearing protection.
	Contaminant Contact	Wear protective coveralls (e.g., Tyvek®) (if needed) with shoe covers, nitrile gloves, and safety glasses when handling samples. Dispose of gloves after sampling. Personal protective equipment will be decontaminated and disposed of in general accordance with Section 10 of this HASP.
	Exposure to vapors from contaminated soils	Use work zone air monitoring equipment including photo-ionization detector and multiple gas meter (that monitors % oxygen, lower explosive limit, and hydrogen cyanide), and dust monitor to monitor the works zone as specified in Section 8.0 of the HASP. If air monitoring action levels are exceeded, then engineering controls will be implemented. If excursions of the action levels persist, then upgrade to half or full face respirator with HEPA/organic vapor cartridge as indicated in Section 6.0 of the HASP.

Appendix D

Hazard Communications Program

1.0 POLICY AND PURPOSE

It is the policy of the Consultant to furnish employees with a working environment safe from recognized hazards. This program is designed to provide the Consultant compliance with OSHA's Federal Hazard Communication Standard (29 CFR 1910.1200 and 1926.59).

The Consultant Hazard Communication (HAZCOM) Program has been compiled to provide guidelines for assisting this corporation in meeting the requirements of OSHA's Hazard Communication Standard. This program addresses the evaluation of potential Consultant workplace hazards and communication of pertinent hazard information to Consultant employees.

The **CONTRACTOR** must develop a HAZCOM for **CONTRACTOR** employees and **SUBCONTRACTORs**.

Although most **CONTRACTOR** field projects do not involve the use of hazardous substances, it is imperative that all hazardous materials be managed in accordance with this program. This applies to any usage of hazardous materials regardless of volume. The Contractor will generate a list of chemicals that are anticipated to be used during work activities.

2.0 SCOPE

In accordance with 29 CFR 1910.1200 and 1926.59, this program applies to any potentially hazardous chemical which is known to be present in the workplace in such a manner that employees may potentially be exposed under normal conditions of use. This program also addresses chemicals that may be constituents of waste that may be encountered on a typical Consultant job site.

3.0 LOCATION OF WRITTEN PROGRAM

A complete original of this written program is located with the Consultant Corporate Health and Safety Officer (CHSO) and with each Consultant Office/Branch Manager.

4.0 RESPONSIBILITIES

Overall coordination and implementation of Consultant HAZCOM Program is the responsibility of the CHSO. Any questions, comments, or suggestions relating to Consultant HAZCOM Program should be directed to the CHSO.

The following subsections delineate the responsibilities of personnel as required for successful implementation of this program.

Corporate Health and Safety Officer (CHSO)

The CHSO will:

- Develop and oversee implementation of the written HAZCOM Program
- At a minimum, determine that field personnel engaged in hazardous waste operations receive OSHA 40-hour Health and Safety Training, 24-hour supervised on-the-job training, 8-hour Supervisory Training, and annual 8-hour Retraining as required by OSHA (29 CFR 1910.120 and 29 CFR 1926.65).

Office/Branch Managers

The Office/Branch Managers will:

- Determine that all new employees at their office/branch receive training in accordance with the HAZCOM Program within 30 days of hire or prior to performing field work (whichever is sooner)
- Maintain at the office/branch an inventory of Material Safety Data Sheets (MSDSs) as available for all hazardous materials with which employees have the potential of coming into contact while on the job
- Determine that MSDSs are made readily available for employee review upon request by the employee
- Determine that label and warning protocol for hazardous materials is complied with.

Supervisors (Project Mangers and/or Field Team Leaders)

Supervisors will:

- Develop and oversee completeness of site-specific HASPs for their projects
- Implement the hazard communication programs and HASPs for their projects
- Determine that field personnel are familiar with the HAZCOM Program regarding chemical use and potential chemical exposures in the field
- Determine that employees working on their project sites are familiar with site-specific HASPs and perform in compliance with the requirements of those HASPs.

Employee

It is the employee's responsibility to:

- Read the HAZCOM procedure within 30 days of employment by the Consultant or prior to performing field work for CONSULTANT (whichever is sooner)
- Gain familiarization with MSDSs of those hazardous materials which they use or may be exposed to
- Utilize information and measures as learned from the HAZCOM Program, including associated training and professional experiences, to protect themselves from adverse exposure to hazardous materials.

5.0 PROGRAM REQUIREMENTS

Material Safety Data Sheets (MSDSs) and Chemical List

Complete sets of MSDSs for chemicals specific to each office/branch are maintained by the Consultant Office/Branch Manager and made readily available for review upon request by any employee.

A list of chemicals potentially used/encountered by Consultant personnel at offices/branches involved in hazardous waste operations is provided in Table 11-1. Note that Table 11-1 is not necessarily complete.

MSDSs are available for the listed chemicals described below.

- MSDSs for chemicals that are typically used for decontamination and/or sample preservation are compiled. Supplies of these chemicals are generally kept in Consultant field equipment storerooms.
- MSDSs for chemicals and materials that may be encountered on typical Consultant job sites are compiled. These MSDSs are typically included in site-specific Health and Safety Plans. MSDSs should be reviewed prior to performing fieldwork on those sites.
- MSDSs for chemicals used for Photoionization detector (PID) soil gas instrument and standards are compiled. These chemicals are generally kept in small quantities to be used only by soil gas instrument technical personnel.

In addition, the consultant maintains an a comprehensive collection of MSDSs as printed by Genium Publishing Corporation and as obtained from manufacturers of products received at Consultants office are available for use by employees by request to the CHSO. This MSDS collection is updated periodically.

TABLE 11-1
CHEMICAL LIST

DECONTAMINATION AND/OR PRESERVATION CHEMICALS (Field/Storeroom Personnel)		
Chemical	*Amount Stored	Location
Acetone	2 liters	Field Equipment Room Flammable Storage Cabinet
Acetonitrile	2 liters	Field Equipment Room Flammable Storage Cabinet
1-Butanol (n-Butyl Alcohol)	0.5 liter	Field Equipment Room Flammable Storage Cabinet
Hexane	0.5 liter	Field Equipment Room Flammable Storage Cabinet
Hydrochloric Acid	0.5 liter	Field Equipment Room Corrosive Storage Cabinet
Methanol	40 liters	Field Equipment Room Flammable Storage Cabinet
Nitric Acid	15 liters	Field Equipment Room Corrosive Storage Cabinet
Sodium Hydroxide	1 kg	Field Equipment Room Corrosive Storage Cabinet (separated from acids)
Sulfuric Acid	0.5 liter	Field Equipment Room Corrosive Storage Cabinet
CHEMICALS POTENTIALLY ENCOUNTERED ON TYPICAL JOB SITES		
Benzene Coal Tar Creosote Coal Tar Pitch Cresol Cyanide 1,1-Dichloroethylene 1,2-Dichloroethylene (both isomers) Ethyl benzene Gasoline Naphtha (Coal Tar) Naphthalene and related PAHs Pentachlorophenol Perchloroethylene Polychlorinated Biphenyls		

DECONTAMINATION AND/OR PRESERVATION CHEMICALS (Field/Storeroom Personnel)		
Chemical	*Amount Stored	Location
Styrene 1,1,2,2-Tetrachloroethane Tetraethyl Lead Toluene 1,1,1-Trichloroethane (methyl chloroform) Trichloroethylene Xylene		

**SOIL GAS STANDARD CHEMICALS (used by soil gas personnel only)		
Chemical	*Amount Stored	Location
Stored for Occasional or Potential Future Use		
Benzene	10 grams	Field Equipment Room Refrigerator
1,1-Dichloroethylene	10 grams	Field Equipment Room Refrigerator
1,2-Dichloroethylene (both isomers)	14 grams	Field Equipment Room Refrigerator
Ethyl benzene	10 grams	Field Equipment Room Refrigerator
Perchloroethylene	10 grams	Field Equipment Room Refrigerator
Toluene	10 grams	Field Equipment Room Refrigerator
Trichloroethylene	10 grams	Field Equipment Room Refrigerator
Xylenes (o, m, & p)	6 grams	Field Equipment Room Refrigerator
Bromodichloromethane	1 gram	Field Equipment Room Refrigerator

**SOIL GAS STANDARD CHEMICALS (used by soil gas personnel only)		
Chemical	*Amount Stored	Location
Stored for Occasional or Potential Future Use		
Bromoform	5 grams	Field Equipment Room Refrigerator
2-Chloroethyl vinyl ether	5 grams	Field Equipment Room Refrigerator
Dibromochloromethane	1 gram	Field Equipment Room Refrigerator
1,4-Dichlorobenzene	5 grams	Field Equipment Room Refrigerator
1,2-Dichloropropane	5 grams	Field Equipment Room Refrigerator
1,3-Dichloropropene	2 grams	Field Equipment Room Refrigerator
Styrene	2 grams	Field Equipment Room Refrigerator
1,1,2,2-Tetrachloroethane	2 grams	Field Equipment Room Refrigerator
1,1,1-Trichloroethane	2 grams	Field Equipment Room Refrigerator
1,1,2-Trichloroethane	5 grams	Field Equipment Room Refrigerator
Trichlorofluoromethane	5 grams	Field Equipment Room Refrigerator
1,2,4-Trimethylbenzene	2 grams	Field Equipment Room Refrigerator
* Amounts stored are based on typical field equipment room inventory (Glastonbury Office). Actual amounts may vary depending on facility location and project requirements. ** Soil gas standard chemicals are used for field testing/calibration of soil gas, field, analytical equipment.		

LABELS AND WARNINGS

The Consultant labeling system for containers of hazardous materials is as follows:

- Containers are labeled, tagged, or marked in a legible fashion, with the identity of the hazardous materials contained therein.
- Containers are labeled, tagged, or marked in a legible fashion with the appropriate hazard warnings. This warning may be of any type of message, words, pictures or symbols that convey the hazards of the chemical.
- All required container labels, tags and/or markings are legible.
- Labels are affixed to the container itself (vs. lid). Note that lids may also be labeled, but not in lieu of container labeling.

The Consultant field equipment room maintenance technician is responsible that the Consultant labeling system is complied with at his/her office location. Project Managers and Field Team Leaders are responsible for determining that the Consultant labeling system is complied with for the field portion of their projects.

TRAINING

The Consultant Office/Branch Manager is responsible for determining that the HAZCOM Training Program is complied by personnel employed at their office/branch.

The Consultant's HAZCOM Program training requirements are listed below:

- Newly hired employees who may use or be exposed to hazardous materials will be required to familiarize themselves with the HAZCOM Program, and with the MSDSs associated with their job function.
- Selected employees will be required to attend a HAZCOM Program classroom training session. Training will provide information on:
    - The physical and health hazards of the chemicals in the work area.
    - Methods and observations that may be used to detect the presence or release of a hazardous chemical in the work area.
    - Measures employees can take to protect themselves from these hazards.
    - The details of the HAZCOM Program, including an explanation of MSDSs and CONSULTANTs container labeling system.

- As required to achieve compliance with OSHA 1910.120 and 1926.65, technical staff engaged in hazardous waste operations will be provided with OSHA 40-hour HAZWOPER safety training, 24 hours of on-the-job training, and annual 8-hour HAZWOPER refresher courses.

6.0 MULTI-EMPLOYER WORK PLACES

The Consultant is obligated to provide the identity of any hazardous materials/conditions to other employers sharing the same workplace whose employees may be exposed. Likewise, all employers sharing the same workplace with the Consultant will be obligated to identify all hazardous materials/conditions to which employees may be exposed. The employer sharing space with the Consultant will be required by the Consultant Project Manager to:

- Determine that a mutual exchange of this information occurs, and that health and safety hazards are minimized.
- Provide to project employees, as part of the subcontractor HASP, MSDSs of identified hazardous materials to which they may be exposed.
- Conform in full to the requirements of 29 CFR 1910.1200 and 29 CFR 1926.59, applicable HASPs, and established work procedures.

These obligations may be accomplished via the exchange of written HAZCOM Programs, project HASPs, or MSDSs as appropriate.

7.0 BIENNIAL REVIEW

This program will be formally reviewed by the Consultant CHSO and company management on a biennial basis or more frequently if the CHSO deems it necessary to promote personnel safety. The program will be revised as necessary for continuing compliance with the OSHA Federal Hazard Communication Standard.

Appendix E

Cold Stress Program

1.0 PURPOSE & INTRODUCTION

The purpose of this document is to educate the employee about exposure to cold environments and the effects of hypothermia and other cold-related injuries. Through proper use of Personal Protective Equipment (PPE), engineering and administrative controls; and education, cold injury, both to the extremities and the body's core temperature, can be prevented.

2.0 SCOPE

This program is intended for use by employees engaged in work with the potential for exposure to cold environments. This program will be reviewed annually by the Health and Safety Division. Training will be provided annually to all those potentially affected, and will include this written program.

3.0 WORKING IN COLD ENVIRONMENTS

1. Metabolic Responses

The human body is designed to function best at a rectal temperature of 99-100F. The body maintains this temperature in two ways: by gaining heat from food and muscular work; or, by losing it through radiation and sweating. By constricting blood vessels of the skin and/or shivering, the body uses its first line of cold defense.

Temperature control of the body is better understood by dividing the body into two main parts: the shell; and, the core. The shell is comprised of the skin, capillaries, nerves, muscles and fat. Other internal organs such as the heart, lungs, brain and kidneys make up the core.

During exposure to cold, the skin is first affected. Blood in the peripheral capillaries is cooled, sending a signal to a portion of the brain called the hypothalamus. Regulating body temperature is one of the many basic body functions of the hypothalamus. Acting like a thermostat, adjustments are performed in order to maintain normal body temperatures. When a chill signal is received, two processes are begun by the hypothalamus: conserve heat already in the body; and, generate new heat.

Heat conservation is performed through constriction of the blood vessels in the skin (shell), thus reducing heat loss from the shell and acting as an insulator for the core. Sweat glands are also inhibited, thus preventing heat loss by evaporation.

Additional fuel for the body is provided in the form of glucose. Glucose causes the heart to beat faster, sending oxygen and glucose-rich blood to the tissue where needed. In an attempt to produce heat, the muscles rapidly contract. This process is better known as "shivering", and generates heat similarly to that created by strenuous activity, raising the body's metabolic rate.

During physical activity and fatigue, the body is more prone to heat loss. As exhaustion approaches, blood vessels can suddenly enlarge, resulting in rapid loss of heat. Exposure to extreme cold causes nerve pulses to be slowed, resulting in fumbling, sluggish and clumsy reactions.

4.0 COLD INJURIES

Cold injuries are classified into two categories: local; or, general. Local injuries include frostbite, frostnip, chilblain and trenchfoot. General injuries include hypothermia and blood vessel abnormalities (genetically or chemically induced). Major factors contributing to cold injury are exposure to humidity and high winds; contact with wetness or metal; inadequate clothing; age; and, general health. Allergies, vascular disease, excessive smoking and/or drinking, and certain drugs and medicines are physical conditions that can compound the effects of exposure to a cold environment.

1. Hypothermia

Hypothermia is a condition of reduced body temperature. Most cases develop in air temperatures between 30-50°F, not taking wind-chill factor in consideration.

Symptoms of hypothermia are uncontrolled shivering and the sensation of cold. The heartbeat slows and sometimes becomes irregular, weakening the pulse and changing blood pressure. Changes in the body chemistry cause severe shaking or rigid muscles; vague or slow slurred speech; memory lapses; incoherence; and, drowsiness. Cool skin, slow irregular breathing, low blood pressure, apparent exhaustion, and fatigue after rest can be seen before complete collapse.

As the core temperature drops, the victim can become listless, confused, and make little or no effort to keep warm. Pain in the extremities can be the first warning of dangerous exposure to cold. Severe shivering must be taken as a sign of danger. At a core body temperature of about 85°F, serious problems develop due to significant drops in blood pressure, pulse rate and respiration. In some cases, the victim may die.

Sedative drugs and alcohol increase the risk of hypothermia. Sedative drugs interfere with the transmission of impulses to the brain. Alcohol dilates blood vessels near the skin's surface, increasing heat loss and lowering body temperature.

Table I provides information on the onset of hypothermia and metabolic responses at different body temperatures.

2. Raynaud's Phenomenon

Raynaud's Phenomenon is the abnormal constriction of the blood vessels of the fingers on exposure to cold temperatures, resulting in blanching of the ends of the fingers. Numbness, itching, tingling or a burning sensation may occur during related attacks. The disease is also associated with the use of vibrating hand tools in a condition sometimes called White Finger Disease. Persistent cold sensitivity, ulceration and amputations can occur in severe cases.

3. Acrocyanosis

Acrocyanosis is caused by exposure to the cold and reduces the level of hemoglobin in the blood, resulting in a slightly blue, purple or gray coloring of the hands and/or feet.

4. Frostbite

Frostbite is the freezing of the body tissues due to exposure to extremely low temperatures, resulting in damage to and loss of tissue. Frostbite occurs because of inadequate circulation and/or insulation, resulting in freezing of fluids around the cells of the body tissues. Most vulnerable parts of the body are the nose, cheeks, ears, fingers and toes.

Frostbite can affect outer layers of skin or can include the tissues beneath. Damage can be serious, with permanent loss of movement in the affected parts, scarring, necrotic tissue, and amputation are all possibilities. Skin and nails that slough off can grow back.

The freezing point of the skin is about 30F. As wind velocity increases, heat loss is greater and frostbite will set in more rapidly.

There are three (3) degrees of frostbite: first degree, freezing without blistering and peeling; second degree, freezing with blistering and peeling; and, third degree, freezing with death of skin tissues and possibly the deeper tissues.

The following are symptoms of frostbite:

a. Skin changes color to white or grayish-yellow, progresses to reddish-violet, and finally turns black as the tissue dies;

b. Pain may be felt at first, but subsides;

c. Blisters may appear;

d. Affected part is cold and numb.

The first symptom of frostbite is usually an uncomfortable sensation of coldness followed by numbness. Tingling, stinging, cramping and aching feelings will be experienced by the victim. Frostbite of the outer layer of the skin has a waxy or whitish look and is firm to the touch. Cases of deep frostbite cause severe injury. The tissues are cold, pale and solid. The victim is often unaware of the frostbite until someone else observes these symptoms. It is therefore important to use the "buddy system" when working in cold environments, so that any symptoms of overexposure can be noted.

Table II describes the cooling power of wind on exposed flesh. This information can be used as a guide for determining equivalent chill temperatures when the wind is present in cold environments.

5. Trench Foot and Chilblains

Trench foot is swelling of the foot caused by long, continuous exposure to cold without freezing, combined with persistent dampness or immersion in water. Edema (swelling), tingling, itching and severe pain occurs, followed by blistering, necrotic tissue and ulcerations. Chilblains have similar symptoms as trench foot, except that other areas of the body are affected.

6. Frostnip

Frostnip occurs when the face or extremities are exposed to a cold wind, causing the skin to turn white.

5.0 PREVENTION OF COLD STRESS

Cold Stress can be prevented through a combination of various factors: acclimation; water and salt displacement; medical screening, proper clothing selection; and, training and education. Through the use of engineering controls, work practices, work/rest schedules, environmental monitoring and consideration of the wind-chill temperature, the employee can be protected.

1. Acclimatization

Acclimation can be achieved to some degree. Sufficient exposure to cold causes the body to undergo changes to increase comfort and reduce the risk of injury. But, these changes are minor and require repeated exposure to cold and uncomfortable temperatures to induce them.

2. Dehydration

The dryness of cold air causes the body to lose a significant amount of water through the skin and lungs. It is essential that caffeine-free, non-alcoholic beverages be available at the worksite for fluid replacement. Dehydration also increases the risk of injury due to cold and affects blood flow to the extremities.

3. Diet

A well-balanced diet is important for employees working in cold environments. Diets restricted only to certain foods may not provide the necessary elements for the body to withstand cold stress, leaving the worker vulnerable.

4. Control Measures

When the wind chill factor results in an equivalent temperature of -26F, continuous exposure of the skin will not be permitted. Any worker exposed to temperatures of 36F or less that becomes immersed in water will be given dry clothing immediately and treated for hypothermia at the local hospital if any symptoms of hyperthermia are present. Notification of this incident will be provided to the Health and Safety Division immediately after sending the worker to the hospital.

5. Engineering Controls

The following are some ways that environmental controls can be used to reduce the effects of a cold environment:

a. General or spot heating should be used to increase temperature in certain areas in the workplace;

b. Warm air jets, radiant heaters or contact warm plates can be used to warm the worker's hands if fine work is to be performed with bare hands for 10 to 20 minutes or more;

c. Shield the work area if air velocity at the work site is increased by wind, draft or ventilating equipment;

d. Metal handles of tools and control bars should be covered with thermal insulating material at temperatures below 30F;

e. Unprotected metal chair seats will not be used in cold environments;

f. When appropriate and feasible, equipment and processes will be substituted, isolated, relocated, or redesigned;

g. Power tools, hoists, cranes or lifting aids will be used to reduce the metabolic workload;

h. Heated warming shelters will be made available for continuous work being performed in an equivalent temperature of 20F or below. Workers will be encouraged to use the shelters regularly.

6. Administrative Work Practice Controls

Work practices and guidelines can be designed and developed to reduce exposure to cold stress. Some of these may include:

a. Work-rest schedules to reduce the peak of cold stress;

b. Enforce scheduled breaks;

c. Enforce intake of warm caffeine-free, non-alcoholic beverages;

d. Schedule work that has potential exposure to cold stress for the warmest part of the day;

e. Move work to warmer areas, whenever possible;

f. Assign extra workers for high-demand tasks;

g. Provide relief workers for other workers needing breaks;

h. Teach basic principles of recognizing and preventing cold stress;

i. Use the buddy system for work at 10F or below, and keep within eyeshot;

j. Allow new employees to adjust to the conditions before they work full-time in cold environments;

k. Minimize sitting and standing in one place for long periods of time;
l. Include weight and bulkiness of clothing when estimating work performance requirements and weights to be lifted;

Table III provides a work/warm-up schedule for cold environments, with wind chill taken into account.

7. Special Considerations

Older workers and workers with circulatory problems should be extra careful in cold environments. Sufficient sleep and good nutrition are important preventive measures for maintenance tolerance to the cold. Double shifts and overtime work should be avoided when working in cold environments.

If any of the following symptoms are observed on site, the affected worker will immediately go to warm shelter:

- Onset of heavy shivering;
- Frostnip;
- Feeling of excessive fatigue;
- Drowsiness;
- Euphoria.

After entering the warm shelter, the outer layer of clothing should be removed. If the clothing is wet from sweat and perspiration, dry clothing should be provided. If this is not feasible, then the clothing should be loosened to allow sweat to evaporate.

Anyone working in cold environments and on prescribed medication should consult their physician concerning any possible side effects due to cold stress. Those individuals suffering from diseases and/or taking medication that interferes with normal body temperature regulation or reduces the tolerance to cold will not be allowed to work in temperatures of 30F or below.

6.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

In choosing PPE for cold environments, it is important to maintain airspace between the body and outer layer of clothing to retain body heat. The more air pockets, the better the insulation. The clothing should also allow for the evaporation of sweat if the skin is wet.

The most important parts of the body to protect are the feet, hands, head and face. Hands and feet become cooled most easily, because of their distance from the heart. Keeping the head covered is equally important. As much as 40% of body heat loss is through the head when it is exposed.

Ideal clothing for exposure to cold environments is made of cotton. Cotton picks up sweat off the body and brings it to the surface. Loosely fitted clothing also aids in sweat evaporation. Recommended clothing may include the following:

a. Polypropylene under shirt and shorts under thermal underwear (preferably two-piece);
b. Wool socks;
c. Wool or thermal pants, lapped over boot tops to keep out snow and water;
d. Suspenders (belts can constrict and reduce circulation);
e. Insulated work boots, preferably waterproof. Safety toe, if necessary;
f. Wool or cotton shirt;
g. Parka;
h. Knit cap/hard hat liner;
i. Wool mittens or gloves (depending on the dexterity required);
j. Face mask or scarf.

Dirty or greasy clothing loses much of its insulation value. Dirty clothing crushes air pockets, allowing air to escape more easily. Also, denim is not a good protective fabric. It is loosely woven and allows water to penetrate and wind to blow away body heat.

TABLE I
Progressive Clinical Presentation of Hypothermia*

Core Temperature Deg. C	Deg. F	Clinical Signs
37.6	99.6	"Normal" rectal temperature.
37	98.6	"Normal" oral temperature.
36	96.8	Metabolic rate increases in an attempt to compensate for heat loss.
35	95.0	Maximum shivering.
34	93.2	Victim conscious and responsive, with normal blood pressure.
33	91.4	Severe hypothermia below this temperature.
32	89.6	Consciousness clouded; blood pressure becomes difficult to obtain;
31	87.8	pupils dilated but react to light; shivering ceases.
30	86.0	Progressive loss of consciousness; muscular rigidity increases;
29	84.2	pulse and blood pressure difficult to obtain; respiratory rate decreases.
28	82.4	Ventricular fibrillation possible with myocardial irritability.
27	80.6	Voluntary motion ceases; pupils non-reactive to light; deep tendon and superficial reflexes absent.
26	78.8	Victim seldom conscious.
25	77.0	Ventricular fibrillation may occur spontaneously.
24	75.2	Pulmonary edema.
22	71.6	Maximum risk of ventricular fibrillation.
20	68.0	Cardiac standstill.
18	64.4	Lowest accidental hypothermia victim to recover.
17	62.6	Isoelectric electroencephalogram.
9	48.2	Lowest artificially cooled hypothermia patient to recover.

* Presentations approximately related to core temperature. Reprinted from the January 1982 issue of American Family Physician, published by the American Academy of Family Physicians.

TABLE II
Cooling Power of Wind on Exposed Flesh as Equivalent Temperature (under calm conditions)*

Estimated Wind Speed (mph)	**Actual Temperature Reading (Degrees Fahrenheit)**											
	50	**40**	**30**	**20**	**10**	**0**	**-10**	**-20**	**-30**	**-40**	**-50**	**-60**
	Equivalent Chill Temperature (☐F)											
Calm	50	40	30	20	10	0	-10	-20	-30	-40	-50	-60
5	48	37	27	16	6	-5	-15	-26	-36	-47	-57	-68
10	40	28	16	4	-9	-24	-33	-46	-58	-70	-83	-95
15	36	22	9	-5	-18	-32	-45	-58	-72	-85	-99	-112
20	32	18	4	-10	-25	-39	-53	-67	-82	-96	-110	-121
25	30	16	0	-15	-29	-44	-59	-74	-88	-104	-118	-133
30	28	13	-2	-18	-33	-48	-63	-79	-94	-109	-125	-140
35	27	11	-4	-20	-35	-51	-67	-82	-98	-113	-129	-145
40	26	10	-6	-21	-37	-53	-69	-85	-100	-116	-132	-148
(Wind speeds greater than 40 mph have little additional effect).	LITTLE DANGER In < hr with dry skin. Maximum danger of false sense of security.				INCREASING DANGER Danger from freezing of exposed flesh within one minute.			GREAT DANGER Flesh may freeze within 30 seconds.				
	Trenchfoot and immersion foot may occur at any point on this chart.											

* Developed by the U.S. Army Research Institute of Environmental Medicine, Natick, MA

Note #1: Wind speeds greater than 40 mph have little additional effect.

Note #2: Trenchfoot and immersion foot may occur at any point on this chart

TABLE III

Threshold Limit Values Work/Warm-up Schedule for 4 Hour Shift (*)

Air Temp.-Sunny Sky		**No Noticeable Wind**		**5 mph Wind**		**10 mph Wind**		**15 mph Wind**		**20 mph Wind**	
˚C (approx)	**˚F (approx)**	**Max. Work Period**	**No. of Breaks**	**Max. Work Period**	**No. of Breaks**	**Max. Work Period**	**No. of Breaks**	**Max. Work Period**	**No. of Breaks**	**Max. Work Period**	**No. of Breaks**
-26˚ to -28˚	-15˚ to -19˚	(Norm. Breaks) 1		(Norm.Breaks) 1		75 min.	2	55 min.	3	40 min.	4
-29˚ to -31˚	-20˚ to -24˚	(Norm. Breaks) 1		75 min	2	55 min.	3	40 min.	4	30 min.	5
-32˚ to -34˚	-25˚ to -29˚	75 min	2	55 min.	3	40 min.	4	30 min.	5	Non-emergency work should cease	
-35˚ to -37˚	-30˚ to -34˚	55 min.	3	40 min.	4	30 min.	5	Non-emergency work should cease			
-38˚ to -39˚	-35˚ to -39˚	40 min.	4	30 min.	5	Non-emergency work should cease					
-40˚ to -42˚	-40˚ to -44˚	30 min.	5	Non-emergency work should cease							
-43˚ & below	-45˚ & below	Non-emergency work should cease									

Notes for TABLE III:

1. Schedule applies to moderate to heavy work activity with warm-up breaks of 10 minutes in a warm location. For light to moderate work (limited physical motion), apply the schedule one step lower. For example, at -30F with no noticeable wind (step 4, a worker at a job with little physical movement should have a maximum work period of 40 minutes with 4 breaks in a 4 hour period.

2. The following is suggested as a guide for estimating wind velocity if accurate information is not available: 5 mph, light flag moves; 10 mph, light flag fully extended; 15 mph, raises newspaper sheet; 20 mph, blowing drifting snow.

3. If only the wind-chill cooling rate is available, a rough rule of thumb for applying it rather than the temperature and wind velocity factors given above would be: 1) special warm-up breaks should be initiated at a wind-chill cooling rate of about 17 W/m2; 2) all non-emergency work should have ceased at or before a wind-chill of 2250 W/m2. In general the warm-up schedule provided above slightly under-compensates for the wind at the warmer temperatures, assuming acclimatization and clothing appropriate for winter work. On the other hand, the chart over-compensates for the actual temperatures in the colder ranges, since windy conditions prevail at extremely low temperatures.

4. TLVs apply only for workers in dry clothing.

* Adapted from Occupational Health and Safety Division, Saskatchewan Department of Labour.

Appendix F

Heat Stress Program

1.0 INTRODUCTION

Heat stress is one of the most common (and potentially serious) illnesses at job sites. Although it is caused by a number of interacting factors, the wearing of personal protective equipment (PPE) puts the worker at a much higher risk during warmer environmental conditions. The results of heat stress range from fatigue to serious illness or death. Through regular fluid replacement and other preventive measures, heat stress can be controlled, leading to increased efficiency and a higher level of safety on the job.

2.0 PURPOSE

To create an awareness among employees concerning the body's physiologic responses to heat; different types of heat stress that can affect the body; recognition of signs and symptoms; first aid treatment; and, preventive measures.

3.0 SOURCES OF HEAT

There are two sources of heat that are important to anyone working in a hot environment:

- Internally generated metabolic heat;
- Externally imposed environmental heat.

4.0 PHYSIOLOGIC RESPONSES TO HEAT

The human body maintains a fairly constant internal temperature, even though it is exposed to varying environmental temperatures. To keep internal body temperatures within safe limits, the body must get rid of its excess heat, primarily through varying the rate and amount of blood circulation through the skin and the release of fluid onto the skin by the sweat glands. These automatic responses usually occur when the temperature of the blood exceeds 98.6°F and are kept in balance and controlled by the brain. In this process of lowering internal body temperature, the heart begins to pump more blood, blood vessels expand to accommodate the increased flow, and the microscopic blood vessels (capillaries) which thread through the upper layers of the skin begin to fill with blood. The blood circulates closer to the surface of the skin, and the excess heat is lost to the cooler environment.

If the heat loss from increased blood circulation through the skin is not adequate, the brain continues to sense overheating and signals the sweat glands in the skin to release large quantities of sweat onto the skin surface. Evaporation of sweat cools the skin, eliminating large quantities of heat from the body.

As environmental temperatures approach normal skin temperature, cooling of the body becomes more difficult. If air temperature is as warm as or warmer than the skin, blood brought to the body surface cannot lose its heat. Under these conditions, the heart continues to pump blood to

the body surface, the sweat gland pour liquids containing electrolytes onto the surface of the skin, and the evaporation of the sweat becomes the principal effective means of maintaining a constant body temperature. Sweating does not cool the body unless the moisture is removed from the skin by evaporation. In high humidity, the evaporation of sweat from the skin is decreased and the body's efforts to maintain an acceptable body temperature may be significantly impaired. These conditions adversely affect an individual's ability to work in the hot environment. With so much blood going to the external surface of the body, relatively less goes to the active muscles, the brain, and other internal organs; strength declines; and fatigue occurs sooner than it would otherwise. Alertness and mental capacity also may be affected. Workers who must perform delicate or detailed work may find their accuracy suffering, and others may find their comprehension and retention of information lowered.

When temperature differences exist between two or more bodies, heat can be transferred. Net heat transfer is always from the body (or object) of higher temperature to that of lower temperature and occurs by one or more of the following mechanisms:

Conduction. The transfer of heat from one point to another within the body, or from one body to another when both bodies are in physical contact. Conduction can be a localized source of discomfort from direct physical contact with a hot or cold surface, it is normally not a significant factor to total heat stress.

Convection. The transfer of heat from one place to another by moving gas or liquid. Natural convection results from differences in density caused by temperature differences. Thus warm air is less dense than cool air.

Radiation. The process by which energy, electromagnetic (visible and infrared), is transmitted through space without the presence or movement of matter in or through this space.

5.0 PREDISPOSING FACTORS TO HEAT STRESS

Factors that may predispose an individual to heat stress vary according to the individual. These factors include:

- Lack of physical fitness;
- Lack of acclimatization;
- Age;
- Dehydration;
- Obesity;
- Drug/alcohol abuse;
- Infection;
- Sunburn;
- Diarrhea;
- Chronic disease.

Predisposing factors and an increased risk of excessive heat stress are both directly influenced by the type and amount of PPE worn. PPE adds weight and bulk, reduces the body's access to normal heat exchange mechanisms (evaporation, convection and radiation) and increases energy expenditure.

6.0 FORMS OF HEAT STRESS AND FIRST AID

(The following excerpts were taken from NIOSH Publication No. 86-112, Working in Hot Environments):

"Excessive exposure to a hot work environment can bring about a variety of heat-induced disorders. Among the most common are heat stroke, heat exhaustion, heat cramps, fainting and heat rash.

Heat Stroke

Heat Stroke is the most serious of health problems associated with working in hot environments. It occurs when the body's temperature regulatory system fails and sweating becomes inadequate. The body's only effective means of removing excess heat is compromised with little warning to the victim that a crisis stage has been reached.

A heat stroke victim's skin is hot, usually dry, red or spotted. Body temperature is usually 105°F or higher, and the victim is mentally confused, delirious perhaps in convulsions, or unconscious. Unless the victim receives quick and appropriate treatment, death can occur.

Individuals with signs or symptoms of heat stroke require immediate hospitalization. First aid should be immediately administered. This includes removing the victim to a cool area, thoroughly soaking the clothing with water, and vigorously fanning the body to increase cooling. Further treatment, at a medical facility, should be directed to the continuation of the cooling process and the monitoring of complications which often accompany heat stroke. Early recognition and treatment are the only means of preventing permanent brain damage or death.

Heat Exhaustion

Heat Exhaustion includes several clinical disorders having symptoms which may resemble the early symptoms of heat stroke. Heat exhaustion is caused by the loss of large amounts of fluid by sweating, sometimes with excessive loss of salt. A worker suffering from heat exhaustion still sweats but experiences weakness or fatigue, giddiness, nausea or headache. In more serious cases, the victim may vomit or lose consciousness. The skin is clammy and moist, the complexion is pale or flushed, and the body temperature is normal or only slightly elevated.

In most cases, treatment involves having the victim rest in a cool place and drink plenty of liquids. Victims with mild cases of heat exhaustion usually recover spontaneously with this treatment. Those with severe cases may require extended care for several days. There are no known permanent effects.

Heat Cramps

Heat cramps are painful spasms of the muscles that occur among those who sweat profusely in heat, drink large quantities of water, but do not adequately replace the body's salt loss. The drinking of large amounts of water tends to dilute the body's fluids, while the body continues to lose salt. Shortly after, the low salt level in the muscles causes painful cramps. The affected muscles may be part of the arms, legs, or abdomen; but tired muscles (those used in performing the work) are usually the ones most susceptible to cramps. Cramps may occur during or after work hours and may be relieved by taking salted liquids by mouth.

Fainting

Fainting occurs in workers not accustomed to hot environments and who stand erect and immobile in the heat.

With enlarged blood vessels in the skin and in the lower part of the body due to the body's attempts to control internal temperature, blood may pool there rather than return to the heart to be pumped to the brain. Upon lying down, the worker should soon recover. By moving around, and thereby preventing blood from pooling, the patient can prevent further fainting.

Heat Rash (Prickly Heat)

Heat rash, also known as prickly heat, is likely to occur in hot, humid environments where sweat is not as easily removed from the surface of the skin by evaporation and the skin remains wet most of the time. The sweat ducts become plugged, and a skin rash soon appears. When the rash is extensive or when it is complicated by infection, prickly heat can be very uncomfortable and may reduce a worker's performance. The worker

can prevent this condition by resting in a cool place part of each day and by regularly bathing and drying the skin."

7.0 SELECTION OF PERSONAL PROTECTIVE EQUIPMENT (PPE)

During work periods where the increased risk of heat stress exists, each item's benefit will be carefully evaluated. Once the PPE is chosen, safe work durations/rest periods will be determined based on the following conditions:

- Anticipated work rate;
- Ambient temperature and humidity;
- Level of protection.

8.0 PREVENTION OF HEAT STRESS

Prevention of heat stress will be addressed in the following manner:

1. Adjustment of work schedules.

    - Modify work/rest schedules.
    - Enforce work slowdowns, as needed.
    - Rotate personnel to minimize overstress or overexertion.
    - When possible, work will be scheduled and performed during cooler hours.

1. Provide shelter or shaded areas to protect personnel during rest periods.

2. Maintain worker's body fluids at normal levels.

    - Drink approximately 12 to 16 ounces of non-caffeinated liquid (preferably water, Gatorade or equivalent) prior to the start of work. Caffeinated fluids act to dehydrate the worker.
    - Workers will be urged to drink a cup or two every 15 to 20 minutes, or at each break. A total of 1 to 1.5 gallons of water per individual per day are recommended for fluid replacement under heat stress conditions, but more may be required.

3. Encourage physical fitness among the workers.

    - Gradually acclimatize workers on site to help build up an "immunity" to the conditions.
    - Heat acclimatization can usually be induced in 5 to 7 days of exposure at a hot job. For workers with previous experience with the job, acclimatization will include exposures of 50% for day 1, 60% for day 2, 80% for day 3, and 100% for the remaining additional days.

4. Provide cooling devices during prolonged work or severe heat exposure.

    - Supply field showers or hose down areas.
    - Supply personnel with cooling jackets, vests, and suits.

5. Train workers in recognition and treatment of heat stress.

6. Use of the buddy system that depends on the recognition of signs and symptoms of heat stress.

7. Identification of heat-intolerant individuals through medical screening.

Appendix G

Personal Protective Equipment (PPE) Program

1.0 PURPOSE

This program has been developed to aide in the proper selection and use of personal protective equipment (PPE) to protect workers from identified potential hazards. Careful selection and use of adequate PPE should protect the respiratory system, skin, eyes, face, hands, feet, head, body and hearing. **CONTRACTOR** employees may work at a variety of job sites and locations, which may require different types of protective equipment. Client specific requirements will always be adhered to. **CONTRACTOR** will supply all PPE or reimburse the employee for the costs of PPE if the PPE is required as part of the project.

2.0 SCOPE

This program establishes criteria for the selection, use, donning and doffing, inspection, maintenance, storage, decontamination of PPE, and evaluation. This information is general, and specific PPE use should be included in the site-specific health and safety plan prepared for each project.

3.0 OSHA REQUIREMENTS (29 CFR 1910.120)

A written personal protective equipment program, which is part of the employer's safety and health program and also part of the site-specific health and safety plan will be established. The PPE program will address the elements listed below.

- PPE selection based upon site hazards
- PPE use and limitations of the equipment
- Work mission duration
- PPE maintenance and storage
- PPE decontamination and disposal
- PPE training and proper fitting
- PPE donning and doffing procedures
- PPE inspection procedures prior to, during and after use
- Evaluation of the effectiveness of the PPE program
- Limitations during temperature extremes, heat stress, and other appropriate medical considerations

OSHA Standard 29 CFR 1910.132 requires employers to assess the employer's workplace and determine if hazards are present that necessitate the use of PPE. This assessment must be certified in writing and documented.

Due to the variety of job sites and situations that **CONTRACTOR** personnel may be involved in, it is important that **CONTRACTOR** maintain a consistent approach in complying with health and safety procedures. The project manager and/or site supervisor are responsible for ensuring that all personnel wear the appropriate PPE. Failure to comply with these requirements may result in disciplinary action. Employee safety is a paramount concern for all **CONTRACTOR** managers and employees. These procedures will now require the following:

1. Protective footwear must be worn by all field personnel working in the field. Footwear must at a minimum include steel toe and shank protection. Additionally, chemical protective footwear may also be required if the potential for contaminated materials exists. This type of protection will be required on a site-specific basis.

2. Eye protection must be worn by all field personnel during all sampling activities, drilling and earth removal activities, stack sampling, and inside manufacturing facilities. Eye protection must include side shields. Prescription lenses worn as eye protection and other protective eyewear must meet ANSI Z87.1-1989.

3. Hardhats are to be worn by all field personnel when in the field. New hardhats must meet ANSI Z89-1986.

4. Hand protection is to be worn on a task-specific basis. The hand protection must be selected based on the chemical hazards expected to be encountered. **CONTRACTOR** maintains a stock of a variety of gloves including:

Best:	Nitrile N-Dey
	PVC
	Latex
	Vinyl
	Solvex, Nitrile
	Leather Work Gloves

Additionally, nitrile coated Kevlar gloves or other types of puncture resistant gloves are to be worn by all personnel working with or cleaning glass impingers. Manufacturers that supply these gloves include Ansell Edmont, Jomac and Wells Lamont. Insulated electrical gloves with outer leather gloves is required when working around high-voltage systems.

CONTRACTOR is responsible for supplying all personal protective equipment required for **CONTRACTOR**'s projects.

4.0 WORK MISSION DURATION

Before donning any PPE ensembles, workers will estimate their anticipated work duration. There are several limiting factors that affect the length of work time. These factors must be addressed:

- Air supply consumption
- Breakthrough time on respirator cartridges.
- Available cartridge for the chemical for air purifying respirators
- Permeation and penetration of the Chemical Protective Clothing/ensemble;
- Ambient temperature; and
- Coolant supply (ice or chilled area to keep the worker's body temperature at a normal temperature).

No single combination of PPE is capable of protection against all hazards. Thus PPE must be used in conjunction with other protective methods and its effectiveness evaluated periodically.

The use of PPE can itself create significant worker hazards, such as heat stress, physical and psychological stress and impaired vision, mobility and communication. For any given situation, equipment and clothing should be selected that provide an adequate level of protection. However, over-protection as well as under-protection can be hazardous and should be avoided when possible.

5.0 LEVEL OF PROTECTION

The following section describes the different levels of protection (A through D). Each level is described in the following manner: the protection provided; when this particular level of protection should be used; recommended and optional equipment; and, any limiting criteria. Combinations of PPE other than those described for Levels A, B, C and D protection may be more appropriate and may be used to provide the proper level of protection.

1. Level A

a. Protection provided:
- Level A provides the highest available level of respiratory, skin and eye protection.

b. Should be used when:
- The chemical substance has been identified and requires the highest level of protection for skin, eyes, and the respiratory system based on any of the following circumstances;

- Measured (or potential for) high concentration of atmospheric vapors, gases or particulates;
- Site operations and work functions involving a high potential for splash, immersion, or exposure to unexpected vapors, gases or particulates of materials that are harmful to skin or capable of being absorbed through intact skin;
- Substances with a high degree of hazard to the skin are known or suspected to be present, and skin contact is possible;
- The Operations must be conducted in confined, poorly ventilated areas until absence of conditions requiring Level A protection is determined.

c. Recommended equipment:

- Pressure-demand, full face piece SCBA or pressure-demand supplied-air respirator with escape SCBA;
- Fully-encapsulating, chemical-resistant suit (pressure-tested immediately before use);
- Inner chemical-resistant suit;
- Inner chemical-resistant gloves;
- Chemical-resistant safety boots/shoes; and
- Two-way radio communications.

d. Optional equipment:

- Cooling unit;
- Coveralls;
- Long cotton underwear;
- Hard hat; and
- Disposable gloves and boot covers.

e. Limiting criteria:

- Fully encapsulating suit material must be compatible with the substances involved.

2. Level B

a. Protection provided:

- The same level of respiratory protection, but less skin protection than Level A.

b. Should be used when:

- The type and atmospheric concentration of substances have been identified and require a high level of respiratory protection, but less skin protection. This involves

atmospheres with IDLH concentrations of specific substances that do not represent a severe skin hazard, or that do not meet the criteria for use of air purifying respirators;
- Atmospheres contain less than 19.5% oxygen; and
- Presence of incompletely identified vapors or gases indicated by direct-reading organic vapor detection instrument, but vapors and gases are not suspected of containing high levels of chemicals harmful to skin or capable of being absorbed through the intact skin.

c. Recommended equipment:

- Pressure-demand, full face piece SCBA or pressure-demand supplied-air respirator with escape SCBA;
- Chemical-resistant clothing (overalls and long-sleeved jacket; hooded, one- or two-piece chemical splash suit; disposable chemical-resistant one-piece suit);
- Inner and outer chemical-resistant gloves;
- Chemical-resistant safety boots/shoes;
- Hard hat; and
- Two-way radio communications.

d. Optional equipment:

- Coveralls;
- Disposable boot covers;
- Face shield; and
- Long cotton underwear.

e. Limiting criteria:

- Use only when the vapors or gases present are not suspected of containing high concentrations of chemicals that are harmful to skin or capable of being absorbed through the intact skin.
- Use only when it is highly unlikely that the work being done will generate either high concentrations of vapors, gases or splashes of material that will affect the exposed skin.

3. Level C

a. Protection provided:

- Level C provides the same level of skin protection as Level B, but a lower level of respiratory protection.

b. Should be used when:

- The atmospheric contaminants, liquid splashes, or other direct contact will not adversely affect any exposed skin;
- The types of air contaminants have been identified, concentrations measured, and a canister/cartridge is available that can remove the contaminant; and
- All criteria for the use of air-purifying respirators are met.

c. Recommended equipment:

- Full face piece or half face piece air-purifying negative pressure respirator;
- Chemical-resistant clothing;
- Inner and outer chemical-resistant gloves;
- Chemical-resistant safety boots and shoes;
- Disposable boot covers;
- Hard hat; and
- Two-way radio communications.

d. Optional equipment:

- Coveralls;
- Face shield;
- Escape bottle; and
- Long cotton underwear.

e. Limiting criteria:

- Atmospheric concentration of chemicals must not exceed IDLH levels; and
- The atmosphere must contain at least 19.5% oxygen.

4. Level D

a. Protection provided:

- No respirator protection and minimal skin protection.

b. Should be used when:

- The atmosphere contains no known hazard; and
- Work functions preclude splashes, immersion, or the potential for unexpected inhalation of or contact with hazardous levels of any chemicals.

c. Recommended equipment:

- Coveralls;
- Safety boots/shoes;

- Safety glasses or chemical splash goggles; and
- Hardhat.

d. Optional equipment:

- Gloves;
- Face shield.

e. Limiting criteria:

- This level should not be worn in the exclusion zone; and
- The atmosphere must contain at least 19.5% oxygen.

6.0 LEVEL OF PROTECTION UTILIZED BY CONTRACTOR PERSONNEL

Due to the nature of our work, personnel will not perform any work that will require the use of Level A protection. Contractor will not directly undertake assignments and Contractor does not train or equip its personnel to handle circumstances involving Level A protection. If Contractor is working on a site and Level A is deemed necessary, the work will be subcontracted to a qualified firm. Contractor personnel should not directly undertake these tasks.

Sites where Contractor is working often require the use of Level C or D, with Level B equipment available on-site for emergency rescue if necessary. Any questions concerning the level of protection necessary to complete a certain task will be directed to the CHSO before setting up the job.

7.0 TYPES OF CONTRACTOR PPE

The following list contains all types of PPE that the **CONTRACTOR** has ready access to if required by site conditions or National Grid bid requirements for site activities.

1. Respiratory Equipment:

a. SCBAs:

- Used for emergency rescue and exposures greater than maximum use concentration limits set for canister/cartridge type negative pressure respirators.

b. Supplied-air respirators:

- MSA Premaire system.

c. Negative pressure respirators:

- Half face and full face, used for exposure to certain types of acid gases, organic vapors and particulates not greater than the canister/cartridge maximum use concentration limit.

2. Chemical protective apparel suits:

a. Polycoated Tyvek®, Saranex, Chemrel and Tyvek® (porous). Provide protection against certain liquid chemicals.

- Tyvek® provides protection against particulates only.

b. Fire/flame retardant coveralls:

- Provide protection against flash fires.

3. Insulated clothing (Provides protection against exposure to the cold:

a. Chemical resistant gloves:

- Provide protection for the hands against skin contact and skin absorption.

b. Disposable boot covers:

- Protect safety boots from contamination and feet from contact with chemicals.

4. Eye protection:

a. Safety glasses and chemical splash goggles.

- Safety glasses protect the eyes against large particles and projectiles.
- Chemical splash goggles protect the eyes against vaporized chemicals, splashes, large particles, and projectiles.

a. Vented goggles do not provide protection against vapors and are not adequate for splashes, as material may seep inside the goggles.

5. Hard hat:

   - Provides protection against blows to the head. When worn with a liner, provides protection against the cold.

6. Construction safety boots:

   - Steel-toe and shank construction boots with chemically resistant soles protect the feet from heavy and sharp objects, and contact with chemicals.

7. Safety harnesses and lifelines:

   - Enable the individual to work in elevated areas or enter confined spaces to prevent falls and aid in rescue.

8. Hearing protection:

   - Provides protection against physiological damage.

9. Canvas work gloves:

   - Provide protection for the hands against abrasions and slivers.

8.0 SELECTION OF CHEMICALLY PROTECTIVE CLOTHING

1. Chemically-protective clothing (CPC) will be chosen in the following manner:

a. Determine what chemicals are present on the site.

b. CPC chosen must be resistant to permeation, degradation and penetration of the chemical(s).

   - Permeation - Process by which a chemical dissolves in and/or moves through a protective clothing material on a molecular level.
   - Degradation - The loss of or change in the fabric's chemical resistance or physical properties due to exposure to chemicals, use or ambient conditions (e.g., sunlight).
   - Penetration - The movement of chemicals through zippers, stitched seams or imperfections (e.g., pinholes) in CPC.

c. Review manufacturer's permeation data to determine the performance characteristics of the material to the specific chemical.

d. Select CPC that protects against the greatest range of chemicals on the site and has the longest breakthrough time.

e. Discuss choice of CPC with the project CHSO, PM, and SSO prior commencing work.

9.0 DONNING AND DOFFING PROCEDURES

The following procedures will be used by **CONTRACTOR** employees for donning and doffing PPE at protection Levels B and C. Donning and doffing will be performed with the assistance of an individual(s) located in the Support Zone and Contamination Reduction Zone, respectively. This individual will help the worker tape up and adjust PPE for proper fit, as well as remove PPE after decontamination.

1. Donning PPE

- Inspect the clothing and respirator before donning.
- Unzip the suit.
- Step into the legs of the suit, slipping the feet through the legs. Push arms through the sleeves.
- Pull leg cuffs over the feet.
- Put on chemical-resistant safety boots over the feet. Tape the leg cuff over the tops of the boots.
- Pull over chemical-resistant boot covers and tape over the leg cuff.
- If suit contains protective feet, wear chemical-resistant safety boots inside the suit with chemical-resistant boot covers over the suit and taped securely to the leg.
- If wearing a SCBA, don the face piece and adjust it to be secure, but comfortable. Do not connect the breathing hose. Open valve on the air tank.
- If wearing a negative pressure respirator, pull hood over the head and perform positive and negative pressure face piece seal test.
- Pull on chemical protective inner gloves.
- Pull on chemical protective outer gloves and tape securely to the sleeve of the suit.
- Securely tape the suit to protect all exposed skin around the neck area, and if wearing a full-face piece, tape around the edge of the hood-to-face piece junction.
- Put on hardhat, if needed, and tape securely on top of head so that the hard hat does not slide off.

2. Doffing PPE

- Doffing of PPE will not take place until the individual has been properly decontaminated by a suitably attired assistant. Both the worker and assistant will make every effort to avoid any direct contact with the outside of the suit.

- If the individual is wearing a SCBA, the hose connection to the diaphragm will be disconnected, leaving the face piece on the wearer. The remainder of the unit will be removed and decontaminated before proceeding further.
- If the individual is wearing a half-face or full-face negative pressure respirator, she/he will be instructed to leave it on until the doffing procedure is complete.

NOTE: Decontamination is to be performed in accordance with the Site-Specific Health and Safety Plan for the site.

10.0 DECONTAMINATION OF PPE

Whenever possible, disposable PPE will be used on-site. Disposable PPE includes the following:

- Chemical protective suits;
- Gloves; and
- Chemical protective boot covers.

After decontaminating the worker, PPE is disposed of on-site in labeled disposal containers.

11.0 INSPECTION OF PPE

PPE will be inspected prior to, during and after each use according to the procedure outlined below.

1. Prior to use (Reusable and Disposable PPE):

a. Through reviewing available literature, determine that the clothing material is correct for the task.

b. Visually inspect for:

- Imperfect seams;
- Non-uniform coatings;
- Tears or holes; and
- Malfunctioning closures.

c. Hold up to the light and check for pinholes (inflate gloves and check for leaks).

d. Flex and check for:

- Cracks; and

- Shelf deterioration.

e. If previously used, check for:

- Discoloration;
- Swelling;
- Stiffness and cracking; and
- Holes and tears.

2. During use (Reusable and Disposable PPE), check for:

a. Evidence of chemical attack.
b. Discoloration, swelling, stiffening, softening and/or cracking.
c. Tears.
d. Punctures.
e. Seam discontinuities.

Note: Report any sense of breakthrough to the Health and Safety Assessment Division. Medical monitoring may be necessary to determine the extent of exposure.

3. After use (Reusable PPE), check for:

a. Malfunctioning parts.
b. Evidence of chemical attack.
c. Punctures.
d. Tears.
e. Cracks.

12.0 MAINTENANCE AND STORAGE OF PPE

PPE, other than respiratory equipment, will be maintained and stored in accordance with the manufacturer's recommendations at a minimum to prevent damage due to exposure to dust, moisture, sunlight, chemicals, temperature extremes and sudden impact.

Employees are given Field Operations Equipment bags prior to working on any **CONTRACTOR** sites. PPE that is given to the individual solely for his/her use will be stored in this bag. Before and after each use, the PPE will be inspected to determine whether or not it is still "field worthy". Any PPE found to be defective will be reported to the Health and Safety Assessment Division and either discarded or repaired, as appropriate. Under no circumstances will defective PPE be used in the field.

a. The SSO will periodically inspect PPE issued for individual use.

b. Unless the equipment can be repaired, any PPE found to be defective will be removed from service and discarded immediately.

c. Repairable PPE will be tagged, returned to the SSO and sent out for repair.

13.0 EVALUATION OF PPE PROGRAM

CONTRACTOR's Personal Protection Equipment Program will be reviewed annually by the CHSO. Any program deficiencies that are identified by a **CONTRACTOR** employee will be reported to the CHSO, so that changes will be made immediately. All employees affected by the change(s) will be notified in writing.

Review of the PPE Program will include, but not be limited to, the following:

- Accident and illness experience on various job sites.
- Type and degree of exposure.
- Adequacy of equipment selection process.
- Degree of fulfillment of program objectives.
- Employee acceptance.
- Coordination with overall health and safety program elements.
- Recommendations for program improvements and modifications.
- Adequacy of program records.

Appendix H

Control of Hazardous Energy Program "Lock Out/Tag Out"

1.0 INTRODUCTION

The Lock Out/Tag Out Standard, 29 CFR 1910.147, is prevents approximately 120 deaths and 60,000 injuries per year. Under this standard, **CONTRACTOR** is required to establish a program that utilizes procedures for locking out and/or tagging to isolate and disable the equipment to prevent accidental start-up or release of stored energy. **CONTRACTOR** employees will identify, locate and control these energy sources, as necessary.

DEFINITIONS

Affected Employee: An employee whose job requires operation/use of equipment or machines on which servicing or maintenance is being performed under lockout or tagout, or whose job requires him/her to work in an area in which such servicing or maintenance is being performed. All **CONTRACTOR** personnel or subcontractors working in these circumstances are "affected employees".

Authorized Employee: A person who locks out or implements a tagout system procedure on machines or equipment in connection with the servicing or maintenance on that machine or equipment. An authorized person and an affected employee may be the same person when the affected employee's duties also include performing a lock out or tag out on a machine or equipment.

Capable of being Locked Out: An energy isolating device will be considered to be capable of being locked out either if it designed with a hasp or other attachment or integral part to which, or through which, a lock can be affixed, or if it has a locking mechanism built into it. Other energy isolating devices will also be considered to be capable of being locked out, if lockout can be achieved without the need to dismantle, rebuild, or replace the energy isolating device or permanently alter its energy control capability.

Energized: Connected to an energy source or containing residual or stored energy.

Energy Isolating Device: A mechanical device that physically prevents the transmission or release of energy, including but not limited to the following: a manually operated electrical circuit breaker; a disconnect switch; a manually operated switch by which the conductors of a circuit can be disconnected from all ungrounded supply conductors, and, in addition, no pole can be operated independently; a slide gate; a slip blind; a line valve; a block; and, any similar device used to block or isolate energy. The term does not include a push button, selector switch, and other control circuit type devices.

Energy Source: Any source of electrical, mechanical, hydraulic, pneumatic, chemical, thermal, or other energy.

Lockout: The placement of a lockout device on an energy isolating device, in accordance with an established procedure, ensuring that the energy isolating device and the equipment being controlled cannot be operated until the lockout device is removed.

Lockout Device: A device that utilizes a positive means such as a lock, either key or combination type, to hold an energy isolating device in the safe position and prevent the energizing of a machine or equipment.

Tagout: The placement of a tagout device on an energy isolating device, in accordance with an established procedure, to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.

Tagout Device: A prominent warning device, such as a tag and a means of attachment, which can be securely fastened to an energy isolating device in accordance with an established procedure, to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.

2.0 PURPOSE

To establish procedures for locking out and/or tagging to isolate and disable equipment to prevent accidental startup or release of stored energy, and possible injury to employees.

3.0 SCOPE

This procedure applies to all field/facility operations that require all operative energy sources, including line breaking, in the work area to be shut down, locked out and tagged, so that **CONTRACTOR** employees may safely perform their job. Contractors and subcontractors performing work on **CONTRACTOR** projects will be required to comply with these requirements if their employer does not have a comparable lock out/tag out program already in place.

4.0 PROCEDURE

1. The authorized employee will evaluate the scope of work and all equipment, machines or industrial processes in the area that require the use of stored energy. Energized equipment that may cause a safety hazard will be shut down to eliminate the potential for injury.

2. Prior to beginning the work, the authorized employee will be sure that appropriate lock out/tag out equipment is available to isolate the energy source.

3. The authorized employee will ensure that all affected employees have been trained on the following topics:

    a. Scope of Work.
    b. Energy sources.
    c. Energy isolation devices.
    d. Lock out devices.
    e. Tags.
    f. Test procedures.
    g. Authorized personnel. Those individuals charged with the responsibility for deenergizing and reenergizing energy sources).

4. A safety meeting will take place immediately prior to work, and will be documented and placed in the job folder for future reference. All employees will sign the Lockout Worksheet prior to starting the work. See Attachment A for a copy of the Lockout Worksheet.

5. All energized equipment will be shut down before **CONTRACTOR** personnel or its contractors/subcontractors begin work on site. Shut down will take place in the following manner:

    a. The authorized employee will inform the client's representative of the need to shut down the equipment.
    b. The authorized employee, with assistance from the client's representative, will locate all power sources on the process or equipment.
    c. All power sources will be shut down and verified as such by the authorized employee.
    d. A National Grid standardized lockout device must be applied by all parties entering the energized area. Each authorized employee will affix a personal lockout or tagout device to the group lockout device. Locks and tags will identify the identity of the employee applying the device.
    e. Any necessary testing of equipment will be conducted to ensure that the process or equipment is free of energy.
    f. The authorized employee will attempt to operate the machine to be sure that it remains inoperative. All activation controls will be returned to the "off" position after testing.

g. The authorized employee will apply a tag that bears the following warning, "DANGER - EQUIPMENT LOCKOUT" along with the authorized employee's name, the date, and the time of the lockout.
h. The authorized employee will complete the Lockout Worksheet.
i. Equipment may now be released for work by the authorized employee. No release will be given until all required inspections and testing are performed.

6. Residual energy, i.e., pneumatic/hydraulic power, spring compression, and residual electrical energy in transformers are examples of residual energy that, when unsuspected, may present a greater hazard to the employee. These sources of energy will be identified, located and controlled in the following manner:

a. Residual electrical energy can be controlled through grounding.
b. Pneumatic/hydraulic line pressure can be released, allowing the weight to come to a rest.
c. Spring tensions can be relieved.
d. Product lines will be double blocked (panned) and bled to prevent product from being released.
e. A lockout device and tag will be applied and secured by the authorized employee for the duration of the job to prevent residual energy from reaccumulating and creating a hazard to employees.
f. The lockout/tagout will be documented by the authorized employee on the Lockout Worksheet.

7. After all work is completed, the authorized employee will perform the following:

a. The authorized employee will inform everyone that the job is complete.
b. The Lockout Worksheet will be reviewed by the authorized employee with all employees to make sure that all employees are accounted for before re-energizing the equipment.
c. The authorized employee will be sure that all tools, debris or other material that could be placed into motion are removed before the equipment or process is re-energized. All employees will be instructed to stay clear of movable parts of the equipment or process.
d. All residual energy controls will be removed by the authorized employee, as well as all energy isolation lockouts and tags.
e. In the presence of the client's representative, energy will be restored to the equipment or process.
f. All lockout equipment removal will be documented on the Lockout Worksheet by the authorized employee. The Lockout Sheet will be placed in the job file at the end of the shift.

8. All employees must be accounted for before re-energizing equipment. When employees that have worked on the job are absent from the final inspection before re-energizing the equipment, the authorized employee will initiate the following:

   a. The lockout sheet will be checked to account for all employees.
   b. The authorized employee will obtain a Lockout/Tagout Absent Employee form (See Attachment B).
   c. The authorized employee will appoint employees to look for the individual, paying special attention to high hazard areas where physical harm could result from the start-up of the equipment or process.
   d. After a complete search of the equipment or process, and it has been determined by the authorized employee that the employee is not present, all outlying areas surrounding the site will be searched.
   e. The area surrounding the site will be guarded to prevent the absent employee from inadvertently entering a hazardous situation.
   f. The employer must make all reasonable efforts to contact the authorized employee to inform him/her that his/her lockout or tagout device has been removed.
   g. The equipment or process will be cleared for re-energizing only by the authorized employee once all of the above conditions are met.
   h. A copy of the completed Absent Employee form will be posted conspicuously in the work area, and not removed until the employee has been located. The client's representative will be notified of the situation so that the absent employee does not endanger himself/herself by entering an energized process or equipment.

9. When appropriate, contractors and subcontractors working under **CONTRACTOR**'s direction will be informed of their responsibilities, under the Lockout/Tagout Standard, to provide protection against hazardous energy.

   a. When necessary within the scope of work, contractors and subcontractors without such a program, at the discretion of **CONTRACTOR**, will be disqualified from bidding on these projects.
   b. Contractors and subcontractors with such a program will submit their program to the CHSO for review. The contractor or subcontractor program must be comparable or more strict than **CONTRACTOR**'s program.

      - Programs found to be insufficient in some areas will be returned, with the requested changes to be made before the program is acceptable for implementation.
      - The copy of the program will be returned to the contractor or subcontractor, and will not be duplicated by CONTRACTOR or any of its employees.

10. All affected employees will be given training in these procedures prior to performing any lockout/tagout work. This training will be documented and maintained in the employees' training file with the CHSO.

11. This procedure will be reviewed annually by the CHSO to ensure that it is relevant to **CONTRACTOR** operations.

ATTACHMENT A

LOCKOUT WORKSHEET

LOCKOUT WORKSHEET

Job Location: _____ Project Manager: _____

Date: _____ Time: _____ a.m./p.m.

Equipment Description to be locked out: _____

Equipment No:_____

Energy Source(s): _____

Pre-Work Safety Meeting Minutes: _____

Lockout Hardware Used: _____
No of locks required: _____

HAZARDOUS ENERGY		ISOLATING DEVICES			CONTROL DEVICES			
Type	Magnitude	Type	Location	I.D. No.	Lock	Tag	Both	Add'l Measures

Methods use to verify isolation:
___Design of machine reviewed
___Circuitry tested
___Are valves or hydraulic system attached to electrical sources?
___Does the electrical cabinet have any live wire circuits?
___Based on the energy sources listed above, indicate all energy isolating verification procedures required to ensure lockout

_____
_____
_____

Energy Restoration (Check each as you Progress): Completed	Time
___ All personnel accounted for and in the clear.	_____
___ Point(s) of operation free of tools and debris.	_____
___ Points of operation restraints removed.	_____
___ Lockout hardware removed.	_____
___ Personnel clear of points of operation.	_____
___ Energy restored.	_____
___ Equipment operation verified, client's rep on site.	_____
___ Lockout terminated.	_____

Employees' Signatures: _____
Date: _____

ATTACHMENT B

LOCKOUT/TAGOUT ABSENT EMPLOYEE FORM

LOCKOUT/TAGOUT ABSENT EMPLOYEE FORM

NOTICE

Upon completion of work performed under lockout/tagout conditions, the following employee(s) listed below could not be located or accounted for:

_____

_____

_____

All attempts have been made to locate this employee at the jobsite. It has been verified that this employee is not in the vicinity of the hazardous energy source and will not be affected by the startup of equipment which was under lockout conditions.

_____ _____
Signature of Authorized Employee Date

Signature of Employer _____ Date_____

Appendix I

Confined Space/Hot Work Permitting Procedure

1.0 INTRODUCTION

Any material that is combustible or flammable is susceptible to ignition by heat-producing activity. Common materials such as floors, partitions, roofs, wooden members, paper, textiles, plastics, chemicals, flammable liquids and gases, and grass or brush are very likely to become involved in fire during hot work operations if adequate precautions are not taken.

Hot work is any work that requires the use of tools/equipment that have the potential to produce temperatures which could reasonably be expected to ignite flammable/combustible material or atmospheres in the vicinity of the work area. These tools/equipment have the capability of producing sparks, open flames, heat, or an electrical arc during use. Hot work is not limited to just welding, cutting and brazing, but also grinding, sawing (metal to metal) and chipping operations.

Confined spaces are defined as spaces that which is not designated or intended for normal human occupancy, has limited means of egress and poor natural ventilation. Confined space hazards exist if the potential for hazardous or explosive atmospheres and/or oxygen deficient hazards exist or if there is an engulfment hazard. Other hazards that could exist include mechanical sources and falls. Two types of confined spaces exist: permit required and non-permit required.

DEFINITIONS

Fire Blanket: Blanket made of fire-resistant material, such as NOMEX or KEVLAR (**not asbestos**), or treated wool, which can be used to cover combustible materials to prevent their ignition from sparks, flames or heat during hot work.

Attendant: Person who observes the confined space activities/hot work to ensure that ignition of the surrounding material does not occur. The Attendant will be equipped with a fully charged, suitable fire extinguisher and/or charged fire hose at the work area at the time of the hot work. The Attendant will not be assigned to any other duties.

Confined Space: Confined spaces are spaces that can be bodily entered but are not meant for human occupancy.

Entrant: Person who is trained and authorized to enter a confined space. Entrants are required to review air-monitoring data prior to entry into a permit required confined space PRCS and understand the hazards.

2.0 PURPOSE

To provide **CONTRACTOR** employees, who oversee hot work performed and confined space entry on projects, with a standard permitting and safety procedure to prevent injury or loss of life and property.

3.0 SCOPE

This procedure will apply to all **CONTRACTOR** employees who oversee hot work on projects utilizing welding, cutting, brazing, grinding, chipping, portable heaters, and other potential heat-producing equipment for field/facility activities. This procedure is also to be followed for all confined space entry situations. This procedure will apply to all contractors or subcontractors working under **CONTRACTOR** that do not have an adequate Permitting Procedure in place with the company in which they are currently employed. All **CONTRACTOR** employees involved with confined space entry will be properly trained for the role and duties performed. Training will consist of hands-on training with **CONTRACTOR**'s confined space entry equipment including harnesses, retrieval equipment, air-line respirators and monitoring equipment. Certification that the training was satisfactorily complete will be provided and documentation maintained.

4.0 PROCEDURE

1. Hazard Identification

    a. The Project Manager will identify all work that requires tools, equipment, or operations that may produce sparks or temperatures that are sufficient to ignite flammable/combustible materials or atmospheres.
    b. The Project Manager, SSO and CHSO will determine if a confined space entry is required and determine if the entry requires a permit. Any situation that has the potential to produce hazardous atmospheres or deplete oxygen will require a permit.
    c. This information will be included in the Site Specific Health and Safety Plan to be reviewed with the CHSO prior to starting the project.
    d. The Project Manager will determine if the work can be performed without the use of hot work, i.e. alternative method to reduce the hazard.
    e. The CHSO should consult the Project Manager if the there are questions on hazard determination. The SSO will act as the Entry Supervisor.
    f. The CHSO will review entry with the Project Manager and review this program at least annually to make sure the Program is effective and enforced. Copies of completed permits will be retained for at least one year.
    g. The permit program will be reviewed to determine if it is adequate for the projects conducted. Incident reports will be reviewed, employee issues raised and entries reviewed. The permit program will be evaluated to determine if all hazards were adequately identified and evaluated. Additional protective equipment will be purchased, if necessary, for future entries if the review process shows that all hazards were not properly controlled. This review will be part of annual confined space training.

2. Area Preparation

    a. The following preparation for the work area will be made once it is determined that hot work is necessary:

- All flammable/combustible materials will be relocated at least 35 feet away from the work area.
- All combustible materials that cannot be reasonably removed from the area will be covered with a fire blanket.
- An appropriate fully charged fire extinguisher and/or charged fire hose will be available at the work area before, during and 1/2 hour after hot work procedures have ended.
- All safety equipment will be on-site and functional.

The confined space entry area will be identified with a posted sign that reads:

Caution- Confined Space, and barricaded to prevent impact from external hazards and vehicles. Ground level entries will be ringed with a toe board to prevent objects from inadvertently being dropped into the space.

3. Pre-Work Safety Meeting

a. The Project Manager will assure that a pre-work safety meeting has been provided to the crew prior to any hot work/confined space entry being performed. Individuals involved with confined space entry will be identified as the authorized entrant(s), attendant and the entry supervisor. Additional individuals may be designated to conduct monitoring for multiple entries. This meeting will include, but not be limited to:

- Permitting conditions (environmental conditions, type of work to be performed). This would include reviewing the results of the initial monitoring of the test results, ventilation requirements, potential hazards and continuous testing procedures.
- Personnel authorized to sign-off on the permit. All personnel involved with the confined space entry must sign the permit and acknowledge the hazards expected to be encountered.
- Location of the permit. (Must be conspicuously posted.)
- Type of monitoring required.
- Designation of attendant and discussion of duties.
- Returning completed permit to Project Manager or client when work is complete and project has concluded.

b. During the pre-work safety meeting the authorized entrants will be identified and the entry procedure reviewed. The attendant will be specified and the monitoring and communication procedures reviewed. The entry will be reviewed with the designated entry supervisor before entry. The attendant will be responsible for conducting the air monitoring during the entry and providing results to the entrants and entry supervisor. The designated positions will be posted on the entry permit.

c. The entry supervisor will be responsible for meeting with the client prior to entry to identify if other contractors or client personnel will be working in close proximity

to the confined space entry. The entry supervisor will coordinate entry activities in order to make sure the other work does not impact the entry or endanger entry personnel. The entry supervisor will attend scheduled project meetings with the client and other contractor representatives in order to properly coordinate the entry with other projects.

d. Initial air-monitoring results will be conducted immediately prior to entry and will be reviewed with the entry supervisor and the authorized entrants prior to entry. Air-monitoring procedures and alarm levels will also be reviewed. Ventilation of the space will be initiated before entry and periodic monitoring conducted prior to entry to verify the ventilation is adequate. Monitoring will be performed throughout entry by the attendant and entrants will wear meters with alarms to conduct monitoring during the entry.

e. The Project Manager will meet with the client to arrange for adequate rescue services from the client, if available, or from outside rescue operations. The Project Manager will discuss rescue procedures with representatives of the rescue operation and allow the rescue team to examine the area, practice the rescue and decline to act as the rescue team if they feel they are not adequately staffed or equipped. The entry cannot be conducted until adequate rescue services are provided.

f. The Project Manager will meet with the client to discuss other projects or contractors that could interfere with **CONTRACTOR**'s confined space work. **CONTRACTOR** will coordinate the entry to have minimal impact on other contractors in the area and to make sure **CONTRACTOR** personnel are not endangered by other contractors work.

4. Permit Completion

The Confined Space Work Permit (see Attachment A) will be completed by the Project Manager prior to beginning work each day. The permit will not be considered valid until all personnel involved with the entry have reviewed and signed the entry permit. The entry supervisor will review each permit at the completion of the entry to determine if monitoring and safety procedures are adequate for this project. The permit will be modified if appropriate. The permit will be conspicuously posted at the site of the work.

5. Attendant

A designated Attendant will be present to observe the hot work/confined space operation. The Attendant will maintain contact with personnel and conduct air monitoring. The Attendant will oversee safety retrieval systems and initiate the alarm if rescue is necessary. The Attendant will not perform entry rescue or enter the confined space unless relieved of duty by another authorized Attendant and is equipped with maximum respirator protection. The Attendant will monitor only one confined space entry at one time.

6. Entrant

Entrants will be identified on the permit and instructed on the purpose for the entry of the confined space. Entrants are responsible for adhering to the permit requirements and communicating with the Attendant. Once work tasks are completed the Entrant is responsible for removing equipment, sampling devices and exiting the confined space safely.

7. Entry Procedures:

- A minimum of three workers must be assigned and dedicated to each confined space entry activity: the confined space entrant, the confined space attendant and the entry supervisor.
- Where air-moving equipment is used to ventilate space, chemicals will be removed from the vicinity to prevent introduction into the confined space.
- If flammable liquids, gases or vapors may be contained within the confined space, explosion-proof equipment will be used. All equipment will be positively grounded.
- Blank, double block and bleed or otherwise isolate, lockout and tagout all chemical, physical and/or electrical hazards wherever possible. Reduce all forms of energy to zero state energy.
- One person (standby) must remain at the entryway at all times and must keep continuous contact wit the person entering the confined space. Contact must be maintained by line-of-sight, the safety line and/or radio. The standby attendant must not enter the confined space unless another trained person is available to act as standby, and he/she is equipped wit adequate respiratory protection and dermal protection.
- A ladder is required in all confined spaces deeper than the employee's shoulders. The ladder should be secured and not removed until all employees have exited the space. Do not rely on permanent ladders because they are often in poor condition. If the must be used, be sure of footing. Inspect permanent ladders for deterioration before entering and while descending. Try each step with one foot, while standing on the step above. When in doubt, use a portable ladder of adequate height to reach 3 feet above opening or a rope ladder or lower the entry person using a tripod. If a portable ladder is used, it should be tied off, if possible; otherwise, it should be held in place by the standby person.
- Vehicles should not be left running near confined space work or near air-moving equipment being used for confined space ventilation.

- Do not work without lighting. Use only “Explosion proof “lights or hand lamps. Lights and other illumination utilized in confined spaces will be equipped with guards t prevent contact with light bulb.
- Any deviation from these confined space entry procedures requires the prior approval of the Safety Manager.

8. Atmospheric Monitoring

a. When cutting, grinding, heating or welding surfaces coated with epoxy finishes or paint, or when cutting certain metals with a welding torch, toxic fumes or vapors can be emitted in the process. In these instances, monitoring may be required under the OSHA Standard. Therefore, it is the responsibility of the Project Manager to notify the Health and Safety Coordinator of these coatings and have them sampled (if unknown) to determine what type of monitoring will be required.

b. Occasionally, a "liner" will be adhered to the inside of a metal duct or tank. When hot work will be performed on such material, the liner will be removed at least 4 inches to each side of the cut to prevent toxic vapors from being emitted, or fire from occurring.

c. After moving all flammable materials out of the work area, the area will be monitored with a Combustible Gas Meter immediately before hot work takes place. LEL readings at or above 5% will necessitate that the area be ventilated before hot work operations begin. **Hot work should not proceed if readings of five percent or below cannot be achieved.**

d. All area monitoring must be performed continuously in hot work areas.

e. Hot work performed in confined spaces requires that contaminant specific air monitoring be performed. Air monitoring should be conducted in confined spaces whether there is hot work or not. Even non-permit spaces must be monitored initially to confirm the lack of hazardous atmospheres in the confined space. Contact the CHSO to determine the type of air monitoring required for the contaminant.

f. Hot work performed on containers that previously contained flammable liquids (i.e. underground storage tanks) will not be performed until the Health and Safety Division has been contacted and has approved the work to be performed. **CONTRACTOR**'s Site Specific Health and Safety Plan for Flammable and Combustible Underground Storage Tank Removals contains detailed procedures for cleaning, inerting and cutting these types of containers.

g. Entrants and the attendant will continuously evaluate the permit-required space to determine if additional monitoring or more frequent monitoring is necessary. The permit may be revoked or modified accordingly. All entrants will leave the space if unsafe conditions are observed or measured. The permit will be invalidated and reviewed with the supervisor before re-entry is allowed. Additional monitoring will be performed at the request of employees or attendants. Atmospheric monitoring for confined space entry will include the following procedures:

- Prior to employee entry and before validation/revalidation of a CSEP, remote atmospheric testing of the confined space will be conducted at the top, middle, bottom and corners of the space.
- Monitoring will be conducted with a remote monitor on a wand attached to a toxic gas meter. The monitor will be able to reach the lowest point of the confined space.
- Air monitoring will be performed in the following sequence: Oxygen content, flammability, toxicity (organic vapors, hydrogen sulfide, carbon monoxide, etc.)
- If toxic , explosive or oxygen-deficient atmospheres are detected, the area will be purged or ventilated prior to entry. Area must be retested prior to entry. A person can enter the space only if all three test results are within the limits set in the permit.
- If remote testing is not possible, Level B is required for entry.
- Monitors for oxygen content, combustible gases and toxic vapors will be carried into the confined space with the entry team.

9. Prohibitive Circumstances

a. Hot work will be prohibited if any of the following conditions exist:

- Oxygen levels greater than 21%.
- LEL greater than 5%.
- Organic vapor concentration greater than half of the Permissible Exposure Limits depending on contaminant (ventilation may reduce this hazard).
- Confined space entry will not be permitted if oxygen levels are below 19.5% or if the LEL is >10%. Individual hazardous constituents will be monitored and appropriate levels of respiratory protection will be issued.

10. Conditions of Permit Validity

a. A permit is not valid unless all necessary inspections and air monitoring (if required) have been performed and all required signatures appear on the permit.

b. Work permits will be judged as valid for the following time durations:

- Work Shift or when until a significant change in personnel occur.
- Duration of the hot work.
- When atmospheric changes dictate ceasing the operation, abate the hazard and re-inspect the work area before completing another permit.

c. Permits are valid up to one day and new permits must be completed each day or whenever the permit conditions change.

d. The local Fire Department or client emergency services will be contacted prior to entry into confined spaces. They will be notified of the reason for entry and be

requested to be available for rescue and administrating first aid. If emergency rescue cannot be provided within three minutes **CONTRACTOR** will not conduct the entry. The permit program will be reviewed to determine if it is adequate for the projects conducted. Incident reports will be reviewed, employee issues raised and entries reviewed. The permit program will be evaluated to determine if all hazards were adequately identified and evaluated. Additional protective equipment will be purchased, if necessary, for future entries if the review process shows that all hazards were not properly controlled. This review will be part of annual confined space training.

e. **CONTRACTOR** will coordinate the entry with client and/or other contractors present at the job site. Work will be evaluated to determine the impact by non-**CONTRACTOR** staff on the work being conducted.

f. If conditions change and **CONTRACTOR** employees are at risk the permit will be considered invalid.

g. The permit will be canceled once the project is complete or conditions change that warrant leaving the site. A new permit will be issued for future entries once a permit has been canceled.

11. Training and Program Review

All workers involved with confined space entry will receive training relative to their role on the project. Since **CONTRACTOR** conducts confined space entry infrequently training will be conducted prior to each project in order to refresh **CONTRACTOR** employees on the use of the equipment, monitoring procedures and the confined space entry program. The program will be reviewed annually or when new equipment is acquired. All completed permits will be reviewed and critiqued at the completion of each entry. The entrants and attendants will be interviewed after entry to determine if there were significant problems or concerns.

ATTACHMENT A

CONFINED SPACE PERMIT

CONTRACTOR

Confined Space Entry Permit

Location of Confined Space Date/time

Purpose of entry Duration

Authorized by ***Expires on***

Attendant

Authorized Entrants

Measures for Isolating Equipment	**YES**	**NO**	Measures for Isolating Equipment	**YES**	**NO**
LOTO			Protective clothing		
Lines capped			Communications equipment		
Purging			Hot work permit needed		
Ventilation			Other PPE		
Secure area			**Special conditions**		
Harness and retrieval system			Pump out standing water		
Fire extinguishers			Excessive Heat		
Air line system/5-minute escape bottle			Low overhead		
SCBAs			Slippery surfaces		
Other Respirators			Unsecured ladder		

Atmospheric Monitoring

Tests to be Taken	yes	no	Acceptable Entry Conditions	Test # Date: Time:	1	2	3	4	5	6	7	8	9	10
Oxygen			19.5-23.5%											
LEL			<10%											
CO			<25 ppm											
H_2S			<5 ppm											
Other														

Individual conducting test:_____

Supervisor authorizing entry_____

Instruments used:

Instrument(s) name	Type	Serial #

Authorized Entrants within Space

Entrant's Name	Time In	Time Out	Authorized site Attendants

Emergency and rescue contact:_____

Entry supervisor approval to conduct entry_____ Date/time_____

Appendix J

Incident Reporting

1.0 ACCIDENT AND INCIDENT REPORTING

It is important that all accidents and incidents that result in injury, illness, or medical treatment be reported within 24 hours. If an accident occurs, the Contractor will call their Human Resources Director and Corporate Health and Safety Officer (CHSO) to provide information on the injury. The CHSO will complete the first report of injury and file it accordingly. Copies will be sent to the Project Manager (PM) and Site Safety Officer (SSO). Supervisors are required to complete the Supervisor's Report of Accident included in this section. It is **CONTRACTOR'S** responsibility to investigate each incident, file appropriate paperwork, and conduct a follow-up analysis of each incident to develop information about the cause of the accident.

2.0 REPORTING PHONE NUMBERS

GEI Accident/ Incident Contact Information (For GEI Employees)
Corporate Health and Safety Officer: Robin DeHate (813) 323-6220
Human Resources Director: Linda Penkes (860) 368-5376

3.0 FIRST AID AND MEDICAL TREATMENT

The **CONTRACTOR** provides a First Aid Kit on each site and in each Company vehicle. It is there for use in the treatment of minor scratches, burns, headaches, nausea, etc. Each employee should verify the location of the nearest first aid kit and should make use of it whenever needed. Each kit is fully stocked and restocked monthly by an outside vendor. The kit includes bandages, over the counter medications, disinfecting supplies and topical ointments. The user of each kit is responsible for contacting the vendor to replace items used or submitting the kit to **CONTRACTOR** for replacement. Kits are to be inventoried by the Project Manager before being sent in the field. Only completely stocked kits are to be brought into the field. The kits are maintained in a weatherproof container and in accordance with ANSI Standard Z308.1-1998. The first aid supplies in each kit are included in Attachment A.

Any work related injury or illnesses that requires professional medical assistance should be reported immediately. Failure to promptly notify of a work related injury could make the claim questionable and subject to stricter review. The nearest medical center or hospital will be identified for each project. The phone number and location for this center will be determined before commencing field activities and be included in the Health and Safety Plan. The phone numbers will be posted by Site Safety Officer (SSO) or the Project Manager (PM) and available to all employees in order to provide prompt response to all injuries. The SSO or the PM will contact the nearest medical facility to determine the facility's capabilities and verify that the facility is willing to provide emergency medical services. The following actions for medical treatment scenarios is presented below:

1. Minor First Aid Treatment

First aid kits are stored in each company vehicle. If an injury is sustained or results in minor first aid treatment:

a. Inform your supervisor.
b. Administer first aid treatment to the injury or wound.
c. If a first aid kit is used, indicate usage on the accident investigation report.
d. Access to a first aid kit is not intended to be a substitute for medical attention.
e. Provide details for the completion of the accident investigation report.

2. Non-Emergency Medical Treatment

For non-emergency work-related injuries requiring professional medical assistance, management must first authorize treatment. If you sustain an injury requiring treatment other than first aid:

a. Inform your supervisor.
b. Proceed to the posted medical facility. Your supervisor will assist with transportation, if necessary.
c. Provide details for the completion of the accident investigation report.

3. Emergency Medical Treatment

If you sustain a severe injury requiring emergency treatment:

a. Call for help and seek assistance from a co-worker.
b. Use the emergency telephone numbers and instructions posted next to the telephone in your work area to request assistance and transportation to the local hospital emergency room.
c. Provide details for the completion of the accident investigation report.
d. The Project Manager will identify an ER provider for each long-term project for emergency medical services. The phone number will be posted at each job site.

4. First Aid Training

Each employee will receive training and instructions from his or her supervisor on our first aid procedures.

5. Wounds

a. Minor - Cuts, lacerations, abrasions, or punctures

- Wash the wound using soap and water; rinse it well.
- Cover the wound using clean dressing.

b. Major - Large, deep and bleeding

- Stop the bleeding by pressing directly on the wound, using a bandage or cloth.
- Keep pressure on the wound until medical help arrives.

6. Broken Bones

   a. Do not move the victim unless it is absolutely necessary.
   b. If the victim must be moved, "splint" the injured area. Use a board, cardboard, or rolled newspaper as a splint.

7. Burns

   a. Thermal (Heat)

      - Rinse the burned area, without scrubbing it, and immerse it in cold water; do not use ice water.
      - Blot dry the area and cover it using sterile gauze or a clean cloth.

   c. Chemical

      - Flush the exposed area with cool water immediately for 15 to 20 minutes.

8. Eye Injury

   a. Small particles

      - Do not rub your eyes.
      - Use the corner of a soft clean cloth to draw particles out, or hold the eyelids open and flush the eyes continuously with water.

   b. Large or stuck particles

      - If a particle is stuck in the eye, do not attempt to remove it.
      - Cover both eyes with bandage.

   c. Chemical

      - Immediately irrigate the eyes and under the eyelids, with water, for 30 minutes.

9. Neck And Spine Injury

   If the victim appears to have injured his or her neck or spine, or is unable to move his or her arm or leg, do not attempt to move the victim unless it is absolutely necessary.

10. Heat Exhaustion

    a. Loosen the victim's tight clothing.
    b. Give the victim "sips" of cool water.

Make the victim lie down in a cooler place with the feet raised.

4.0 FIRST AID/CPR Certification

Each **CONTRACTOR** project will identify individuals that are certified CPR/first aid. First aid training sponsored by the American Red Cross is acceptable and must be renewed every three years. CPR training must be renewed annually. Other first aid training will be reviewed to see if it is comparable to the Red Cross training.

5.0 SAFETY RESPONSIBILITIES

The Contractor and Subcontractor employees also have some important responsibilities concerning safety. They are:

a. The responsibility of reporting all injuries and illnesses to your supervisor, no matter how small.
b. The responsibility of always following the safety rules for every task performed.
c. The responsibility of reporting any hazards seen.
d. The responsibility of helping co-workers recognize unsafe actions or conditions.
e. The responsibility of asking about the safety rules.

It is impossible to list or include all safety rules for all the possible tasks. But the following rules have been prepared to help the employee avoid hazards, which may cause injury while doing some of the more common tasks. Failure to follow safety rules and /or safe practices will result in disciplinary action, up to and including termination.

Supervisor's Report of Accident

Supervisor's Name: _____

Basic Rules for Accident Investigation

- Find the cause to prevent future accidents - Use an unbiased approach during investigation
- Interview witnesses & injured employees at the scene - conduct a walkthrough of the accident.
- Conduct interviews in private - Interview one witness at a time.
- Get signed statements from all involved.
- Take photos or make a sketch of the accident scene.
- What hazards are present - what unsafe acts contributed to accident
- Ensure hazardous conditions are corrected immediately.

Date & Time		**Location**	
Tasks performed		**Witnesses**	
Resulted in	**__ Injury __ Fatality** **__Property Damage**	**Property Damage**	
Injured		**Injured**	
Describe Accident Facts & Events			

Supervisor's Root Cause Analysis	*Check ALL that apply to this accident*		
Unsafe Acts		**Unsafe Conditions**	
Improper work technique		Poor Workstation design	
Safety rule violation		Unsafe Operation Method	
Improper PPE or PPE not used		Improper Maintenance	
Operating without authority		Lack of direct supervision	
Failure to warn or secure		Insufficient Training	
Operating at improper speeds		Lack of experience	
By-passing safety devices		Insufficient knowledge of job	
Protective equipment not in use		Slippery conditions	
Improper loading or placement		Excessive noise	
Improper lifting		Inadequate guarding of hazards	

Supervisor's Root Cause Analysis		*Check ALL that apply to this accident*	
Unsafe Acts		**Unsafe Conditions**	
Servicing machinery in motion		Defective tools/equipment	
Horseplay		Poor housekeeping	
Drug or alcohol use		Insufficient lighting	
Unsafe Acts require a written warning and re-training <u>before</u> the Employee resumes work			
Date		**Date**	
Re-Training Assigned		Unsafe Condition Guarded	
Re-Training Completed		Unsafe Condition Corrected	
Supervisor Signature		**Supervisor Signature**	

Accident Report Review

Supervisor _____ Date _____

Department Superintendent _____ Date _____
Safety Manager _____ Date _____

Plant Manager _____ Date _____

ATTACHMENT A

First Aid Kits

Each first aid kit is in a weather proof container and contains the following:

Item	Amount
Ear Plugs	2 pair
Band-aids	2 boxes
Sterile pads	5 2”x2”
Oval eye pads	2
Tylenol	10
Burn cream	1 tube
Tweezers	1 each
Scissors	1 each
Triangular bandage	1
Antiseptic wipes	1 box
Ammonia inhalants	1 box
Flexible gauze	1 roll
First aid guide	
Latex gloves	2 pair

Appendix K

Previous Site Investigation Information

Table 1
Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SS-01-08 12/17/2008	SS-02-08 12/17/2008	Duplicate of: SS-02-08 12/17/2008	SS-03-08 12/17/2008
BTEX (mg/kg)						
Benzene	0.06	44	0.0078 UJ	0.0077 U	0.0079 U	0.006 U
Toluene	0.7	500	0.0078 UJ	0.0077 U	0.0079 U	0.006 UJ
Ethylbenzene	1	390	0.0078 UJ	0.0077 U	0.0079 U	0.006 UJ
Xylene, Total	0.26	500	0.0078 UJ	0.0077 U	0.0079 U	0.006 UJ
Total BTEX	NE	NE	ND	ND	ND	ND
Non-carcinogenic PAHs (mg/kg)						
Acenaphthene	20	500	0.41 U	0.41 U	0.43 U	0.32 U
Acenaphthylene	100	500	0.41 U	0.41 U	0.43 U	0.32 U
Anthracene	100	500	0.092 J	0.41	0.43 U	0.32 U
Benzo[g,h,i]perylene	100	500	0.26 J	1.3	0.57 J	0.25 J
Fluoranthene	100	500	0.81	3.9 J	0.66 J	0.34
Fluorene	30	500	0.41 U	0.41 U	0.43 U	0.32 U
Methylnaphthalene,2-	NE	NE	0.41 U	0.41 U	0.43 U	0.32 U
Naphthalene	12	500	0.41 U	0.41 U	0.43 U	0.32 U
Phenanthrene	100	500	0.24 J	0.76	0.15 J	0.14 J
Pyrene	100	500	0.36 J	3 J	0.49 J	0.27 J
Total Noncarcinogenic PAHs	NE	NE	1.762	9.37	1.87	1
Carcinogenic PAHs (mg/kg)						
Benz[a]anthracene	1	5.6	0.41	3.2 J	0.65 J	0.18 J
Benzo[a]pyrene	1	1	0.82	3 J	1.2 J	0.2 J
Benzo[b]fluoranthene	1	5.6	0.41 U	3.4 J	1.7 J	0.26 J
Benzo[k]fluoranthene	0.8	56	0.41 U	1.3	0.54 J	0.099 J
Chrysene	1	56	0.93	3.3 J	1 J	0.22 J
Dibenz[a,h]anthracene	0.33	0.56	0.084 J	0.51	0.17 J	0.32 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.58	1.9 J	0.97 J	0.38
Total Carcinogenic PAHs	NE	NE	2.824	16.61	6.23	1.339
Total PAHs (mg/kg)						
Total PAHs	NE	NE	4.586	25.98	8.1	2.339

Table 1
Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Notes:

mg/kg - milligrams/kilogram or parts per million (ppm)

BTEX - benzene, toluene, ethylbenzene, and xylenes

PAHs - polycyclic aromatic hydrocarbons

Total BTEX and Total PAHs are calculated using detects only.

6 NYCRR - New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York

6 NYCRR 375 SCO UNRESTRICTED USE - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Unrestricted Use Soil Cleanup Objectives

6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Restricted Use Commercial Soil Cleanup Objectives

NE - not established

ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Yellow shading indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED and 6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL

Gray shading indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED USE

Validation Qualifiers:

J - estimated value

U - indicates not detected at or above the reporting limit shown.

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
BTEX (mg/kg)									
Benzene	0.06	44	0.01 U	7.1	NA	16	0.011 U	NA	0.016
Toluene	0.7	500	0.002 J	24	NA	26	0.002 J	NA	0.015
Ethylbenzene	1	390	0.01 U	2.4	NA	1.7	0.011 U	NA	0.012 U
Xylene, Total	0.26	500	0.01 U	43	NA	30	0.011 U	NA	0.014
Total BTEX	NE	NE	0.002	76.5	NA	73.7	0.002	NA	0.045
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.38 U	33 J	NA	420	3.6 U	NA	0.011 J
Acenaphthylene	100	500	0.038 J	140	NA	1600 J	3.6 U	NA	0.078 J
Anthracene	100	500	0.031 J	130	NA	1500 J	3.6 U	NA	0.1 J
Benzo[g,h,i]perylene	100	500	0.12 J	19 J	NA	96	3.6 U	NA	0.025 J
Fluoranthene	100	500	0.35 J	180	NA	2100 J	3.6 U	NA	0.17 J
Fluorene	30	500	0.015 J	180	NA	2200 J	3.6 U	NA	0.12 J
Methylnaphthalene,2-	NE	NE	0.091 J	290	NA	4100	3.6 U	NA	0.18 J

Table 2
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Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
Naphthalene	12	500	0.32 J	650	NA	8600	3.6 U	NA	0.43
Phenanthrene	100	500	0.12 J	290	NA	4200	3.6 U	NA	0.28 J
Pyrene	100	500	0.27 J	120	NA	1500 J	3.6 U	NA	0.13 J
Total Noncarcinogenic PAHs	NE	NE	1.355	2032	NA	26316	ND	NA	1.524
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.24 J	110	NA	1100 J	3.6 U	NA	0.099 J
Benzo[a]pyrene	1	1	0.21 J	64 J	NA	570	3.6 U	NA	0.055 J
Benzo[b]fluoranthene	1	5.6	0.18 J	68 J	NA	480 J	3.6 U	NA	0.049 J
Benzo[k]fluoranthene	0.8	56	0.15 J	33 J	NA	460 J	3.6 U	NA	0.037 J
Chrysene	1	56	0.2 J	86	NA	890 J	3.6 U	NA	0.072 J
Dibenz[a,h]anthracene	0.33	0.56	0.07 J	18 J	NA	110	3.6 U	NA	0.011 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.12 J	22 J	NA	130	3.6 U	NA	0.024 J
Total Carcinogenic PAHs	NE	NE	1.17	401	NA	3740	ND	NA	0.347
Total PAHs (mg/kg)									
Total PAHs	NE	NE	2.525	2433	NA	30056	ND	NA	1.871
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

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Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

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Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-01-03 (0-2) 11/18/2003	SB-01-03 (8-10) 11/18/2003	SB-01-03 (10-12) 11/18/2003	SB-01-03 (14-15.25) 11/18/2003	SB-03-03 (10-12) 11/19/2003	SB-03-03 (12-14) 11/19/2003	SB-03-03 (24-26) 11/19/2003
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA	NA

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Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	4.1 U	4.5 U	NA	4.6 UJ	4.3 U	NA	4.5 U
Other (%)									
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	1.4	NA	NA	0.074	NA

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Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
BTEX (mg/kg)									
Benzene	0.06	44	0.002 J	0.013 U	0.013 U	NA	NA	0.012 U	99
Toluene	0.7	500	0.002 J	0.013 U	0.013 U	NA	NA	0.012 U	240
Ethylbenzene	1	390	0.013 U	0.013 U	0.013 U	NA	NA	0.012 U	31
Xylene, Total	0.26	500	0.013 U	0.013 U	0.013 U	NA	NA	0.012 U	400
Total BTEX	NE	NE	0.004	ND	ND	NA	NA	ND	770
Other VOCs (mg/kg)									
Acetone	0.05	500	0.029 UJ	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	0.013 U	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	0.013 U	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	0.013 U	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	0.013 U	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	0.013 U	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	0.013 U	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	0.013 U	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	0.013 U	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	0.013 U	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	0.013 U	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	0.013 UJ	NA	NA	NA	NA	NA	NA

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Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
Dichloropropane,1,2-	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	0.013 U	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	0.008 J	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	0.013 UJ	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	0.013 U	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	0.013 U	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	0.013 U	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	0.013 U	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	0.013 U	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	0.013 U	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.044 J	0.43 U	0.42 U	NA	NA	0.42 U	38 J
Acenaphthylene	100	500	0.28 J	0.43 U	0.42 U	NA	NA	0.42 U	240
Anthracene	100	500	0.037 J	0.43 U	0.42 U	NA	NA	0.42 U	170 J
Benzo[g,h,i]perylene	100	500	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	32 J
Fluoranthene	100	500	0.036 J	0.018 J	0.42 U	NA	NA	0.42 U	240 J
Fluorene	30	500	0.13 J	0.43 U	0.42 U	NA	NA	0.42 U	260
Methylnaphthalene,2-	NE	NE	1.8	0.43 U	0.42 U	NA	NA	0.42 U	520 J

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
Naphthalene	12	500	5.8	0.43 U	0.42 U	NA	NA	0.42 U	1200
Phenanthrene	100	500	0.11 J	0.014 J	0.42 U	NA	NA	0.42 U	560
Pyrene	100	500	0.022 J	0.012 J	0.42 U	NA	NA	0.42 U	170 J
Total Noncarcinogenic PAHs	NE	NE	8.259	0.044	ND	NA	NA	ND	3430
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.019 J	0.43 U	0.42 U	NA	NA	0.42 U	130 J
Benzo[a]pyrene	1	1	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	88 J
Benzo[b]fluoranthene	1	5.6	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	62 J
Benzo[k]fluoranthene	0.8	56	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	71 J
Chrysene	1	56	0.013 J	0.43 U	0.42 U	NA	NA	0.42 U	110 J
Dibenz[a,h]anthracene	0.33	0.56	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	190 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U	190 U
Total Carcinogenic PAHs	NE	NE	0.032	ND	ND	NA	NA	ND	461
Total PAHs (mg/kg)									
Total PAHs	NE	NE	8.291	0.044	ND	NA	NA	ND	3891
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	0.13 J	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA

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Chloroaniline,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	0.14 J	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	0.4	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	0.98 UJ	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	0.98 UJ	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	0.4 U	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	0.94	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	0.53	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	0.98 UJ	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	0.98 U	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	0.98 U	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA

Table 2
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Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

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Nitrophenol,2-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	0.98 UJ	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	0.98 UJ	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	1.1 J	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	0.4 U	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	0.097 U	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	0.0098 U	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	0.0098 U	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	0.049 U	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	0.0098 U	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	0.049 U	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	0.02 U	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	0.02 U	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	0.02 U	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	0.0098 U	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	0.02 U	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	0.02 U	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	0.02 U	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
Endosulfan Sulfate	2.4	200	0.02 U	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	0.02 U	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	0.039 U	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	0.02 U	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	0.0098 U	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	0.0098 U	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	0.0098 U	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	0.098 U	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	0.2 U	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	3420	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	0.59 J	NA	NA	NA	NA	NA	NA
Arsenic	13	16	1.2	NA	NA	NA	NA	NA	NA
Barium	350	400	22.5 J	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	0.22 UJ	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	0.02 U	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	20100 J	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	4.3 J	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	3.5 J	NA	NA	NA	NA	NA	NA
Copper	50	270	7.0	NA	NA	NA	NA	NA	NA
Iron	NE	NE	8130 J	NA	NA	NA	NA	NA	NA
Lead	63	1000	2.2	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	6550 J	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	204 J	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	0.004 UJ	NA	NA	NA	NA	NA	NA
Nickel	30	310	5.8 J	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-03-03 (28-30) 11/19/2003	SB-04-03 (12-14) 11/20/2003	Duplicate of: SB-04-03 (12-14) 11/20/2003	SB-04-03 (14-16) 11/20/2003	SB-05-03 (13-15) 11/21/2003	SB-05-03 (15-17) 11/21/2003	GP-05-03 (15-16) 11/17/2004
Potassium	NE	NE	655	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	0.51 UJ	NA	NA	NA	NA	NA	NA
Silver	2	1500	0.07 U	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	107 U	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	0.50 U	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	9.6 J	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	24.7	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	4.8 U	4.9 UJ	5.2 U	NA	4.0 UJ	4.9 U	NA
Other (%)									
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA	16.2
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA	83.8
Total Organic Carbon	NE	NE	NA	NA	NA	0.050 U	0.13	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
BTEX (mg/kg)									
Benzene	0.06	44	0.0057 U	0.0063 U	1.2 U	0.0066 U	0.00067 J	30 U	3.8 J
Toluene	0.7	500	0.00061 J	0.0063 U	1.2 U	0.00093 J	0.00097 J	9.4 J	8.3
Ethylbenzene	1	390	0.0057 U	0.0063 U	1.2 U	0.0066 U	0.0065 U	36	4.3 J
Xylene, Total	0.26	500	0.0057 U	0.0063 U	1.9	0.0066 U	0.0065 U	760	27
Total BTEX	NE	NE	0.00061	ND	1.9	0.00093	0.00164	805.4	43.4
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

Table 2
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Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.37 U	0.4 UJ	44 J	0.42 U	0.41 U	150 J	3.7 J
Acenaphthylene	100	500	0.37 U	0.071 J	140 J	0.059 J	0.41 U	610	11
Anthracene	100	500	0.37 U	0.4 U	130 J	0.42 U	0.41 U	480	34
Benzo[g,h,i]perylene	100	500	0.37 U	0.4 U	52 J	0.42 U	0.41 U	87 J	19 J
Fluoranthene	100	500	0.37 U	0.4 U	380 J	0.072 J	0.41 U	670	76
Fluorene	30	500	0.37 U	0.4 U	150 J	0.42 U	0.41 U	670	17
Methylnaphthalene,2-	NE	NE	0.37 U	0.4 U	750 J	0.42 U	0.41 U	2300	5.8 J

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Naphthalene	12	500	0.37 U	0.4 U	400	0.42 U	0.41 U	4300	9.2
Phenanthrene	100	500	0.37 U	0.4 U	550	0.071 J	0.41 U	1500	66
Pyrene	100	500	0.37 U	0.4 U	220	0.42 U	0.41 U	640 J	64 J
Total Noncarcinogenic PAHs	NE	NE	ND	0.071	2816	0.202	ND	11407	305.7
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.37 U	0.4 U	170 J	0.42 U	0.41 U	370	53
Benzo[a]pyrene	1	1	0.37 U	0.4 U	91 J	0.42 U	0.41 U	200 J	36
Benzo[b]fluoranthene	1	5.6	0.37 U	0.4 U	87 J	0.42 U	0.41 U	280 J	45
Benzo[k]fluoranthene	0.8	56	0.37 U	0.4 U	110 J	0.42 U	0.41 U	110 J	12
Chrysene	1	56	0.37 U	0.4 U	150 J	0.42 U	0.41 U	290 J	40
Dibenz[a,h]anthracene	0.33	0.56	0.37 U	0.4 U	200 U	0.42 U	0.41 U	310 U	10 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.37 U	0.4 U	44 J	0.42 U	0.41 U	83 J	21 J
Total Carcinogenic PAHs	NE	NE	ND	ND	652	ND	ND	1333	217
Total PAHs (mg/kg)									
Total PAHs	NE	NE	ND	0.071	3468	0.202	ND	12740	522.7
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	NA	NA	NA	NA	NA	2400	4800
Antimony	NE	NE	NA	NA	NA	NA	NA	16.5 UJ	11.3 UJ
Arsenic	13	16	NA	NA	NA	NA	NA	3.9 J	6.2 J
Barium	350	400	NA	NA	NA	NA	NA	12.9 J	35 J
Beryllium	7.2	590	NA	NA	NA	NA	NA	2.8 U	1.9 U
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	4.2 U	2.9 U
Calcium	NE	NE	NA	NA	NA	NA	NA	31800	19500
Chromium	NE	NE	NA	NA	NA	NA	NA	3.4	6.8
Cobalt	NE	NE	NA	NA	NA	NA	NA	2.2 J	5.1 J
Copper	50	270	NA	NA	NA	NA	NA	7.8	16.5
Iron	NE	NE	NA	NA	NA	NA	NA	7010	12200
Lead	63	1000	NA	NA	NA	NA	NA	1.8 J	35.9
Magnesium	NE	NE	NA	NA	NA	NA	NA	4350	3000
Manganese	1600	10,000	NA	NA	NA	NA	NA	156	135
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	5.4 J	11.9

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-15-04 (13-15) 11/17/2004	GP-15-04 (24-25) 11/17/2004	GP-20-04 (12-13) 11/17/2004	GP-20-04 (24-25) 11/17/2004	Duplicate of: GP-20-04 (24-25) 11/17/2004	GP-21-05 (14-15) 11/15/2005	GP-22-05 (6.5-7.5) 11/16/2005
Potassium	NE	NE	NA	NA	NA	NA	NA	295 J	469 J
Selenium	3.9	1500	NA	NA	NA	NA	NA	22.6 U	15.4 U
Silver	2	1500	NA	NA	NA	NA	NA	4.2 U	2.9 U
Sodium	NE	NE	NA	NA	NA	NA	NA	57.8 J	220 J
Thallium	NE	NE	NA	NA	NA	NA	NA	28.2 UJ	19.3 UJ
Vanadium	NE	NE	NA	NA	NA	NA	NA	5.8 J	12.1
Zinc	109	10,000	NA	NA	NA	NA	NA	18.4	36.1
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	NA	NA	NA	NA	NA	5.04	0.594 U
Other (%)									
Moisture, Percent	NE	NE	12.3	21	19.5	23.8	22.9	16.5	15.8
Solids, Percent	NE	NE	87.7	79	80.5	76.2	77.1	83.5	84.2
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
BTEX (mg/kg)									
Benzene	0.06	44	0.97 J	0.045 J	0.49	0.0064 U	0.0064 U	0.0064 U	0.0062 U
Toluene	0.7	500	0.52 J	0.035 J	0.7	0.0064 U	0.0064 U	0.0064 U	0.0062 U
Ethylbenzene	1	390	1.2 UJ	0.013 J	0.054	0.0064 U	0.0064 U	0.0064 U	0.0062 U
Xylene, Total	0.26	500	1.4 J	0.13 J	0.5	0.0064 U	0.0064 U	0.0064 U	0.0062 U
Total BTEX	NE	NE	2.89	0.223	1.744	ND	ND	ND	ND
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	6.8 J	7.4 J	0.71 J	0.42 U	0.42 U	0.34 U	0.33 U
Acenaphthylene	100	500	22	25	3.1	0.42 U	0.42 U	0.34 U	0.33 U
Anthracene	100	500	26	26	3.1	0.42 U	0.42 U	0.34 U	0.33 U
Benzo[g,h,i]perylene	100	500	7.7 J	6.1 J	2.1 J	0.42 U	0.42 U	0.34 U	0.33 U
Fluoranthene	100	500	46	46	6	0.42 U	0.42 U	0.34 U	0.33 U
Fluorene	30	500	35	37	3.5	0.42 U	0.42 U	0.34 U	0.33 U
Methylnaphthalene,2-	NE	NE	34	42	5	0.42 U	0.42 U	0.34 U	0.33 U

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
Naphthalene	12	500	38	43	9.7	0.42 U	0.42 U	0.34 U	0.33 U
Phenanthrene	100	500	83	81	8.7	0.42 U	0.42 U	0.34 U	0.33 U
Pyrene	100	500	36 J	33 J	6.9 J	0.42 U	0.42 U	0.34 U	0.33 U
Total Noncarcinogenic PAHs	NE	NE	334.5	346.5	48.81	ND	ND	ND	ND
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	24	22	4.5	0.42 U	0.42 U	0.34 U	0.33 U
Benzo[a]pyrene	1	1	15	15	3.6	0.42 U	0.42 U	0.34 U	0.33 U
Benzo[b]fluoranthene	1	5.6	11	19	4.5	0.42 U	0.42 U	0.34 U	0.33 U
Benzo[k]fluoranthene	0.8	56	9.8	7.7 J	1.4	0.42 U	0.42 U	0.34 U	0.33 U
Chrysene	1	56	18	19	4.1	0.42 U	0.42 U	0.34 U	0.33 U
Dibenz[a,h]anthracene	0.33	0.56	3 J	2.3 J	0.89 J	0.42 U	0.42 U	0.34 U	0.33 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	7.1 J	6.1 J	2 J	0.42 U	0.42 U	0.34 U	0.33 U
Total Carcinogenic PAHs	NE	NE	87.9	91.1	20.99	ND	ND	ND	ND
Total PAHs (mg/kg)									
Total PAHs	NE	NE	422.4	437.6	69.8	ND	ND	ND	ND
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	3790	3850	5450	3410	3630	NA	NA
Antimony	NE	NE	13.2 UJ	17.7 UJ	16 UJ	16.7 UJ	13.8 UJ	NA	NA
Arsenic	13	16	5.3 J	7.3 J	2.2 J	4.7 J	2.9 J	NA	NA
Barium	350	400	29 J	23.5 J	23.4 J	27.6 J	29.9 J	NA	NA
Beryllium	7.2	590	2.3 U	3 U	2.7 U	2.9 U	2.4 U	NA	NA
Cadmium	2.5	9.3	3.4 U	4.5 U	4.1 U	4.3 U	3.5 U	NA	NA
Calcium	NE	NE	53700	39200	8410	17400	31000	NA	NA
Chromium	NE	NE	5	6.2	5.9	4.2	4.6	NA	NA
Cobalt	NE	NE	4 J	6.8 J	3.6 J	2.9 J	3.8 J	NA	NA
Copper	50	270	11.1	17.2	10	8.5	8.9	NA	NA
Iron	NE	NE	16800	17700	10500	8860	9790	NA	NA
Lead	63	1000	46.6	24.6	31.3	2.7 J	2.5	NA	NA
Magnesium	NE	NE	3430	3670	2560	4140	6430	NA	NA
Manganese	1600	10,000	303	225	128	172	245	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	9 J	13.2	9 J	7.1 J	7.5 J	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-23-05 (10-11) 11/16/2005	Duplicate of: GP-23-05 (10-11) 11/16/2005	GP-24-05 (11-12) 11/16/2005	GP-25-05 (21-22.5) 11/15/2005	GP-26-05 (17-18) 11/16/2005	GP-27-08 (24-25) 12/15/2008	GP-27-08 (28-30) 12/15/2008
Potassium	NE	NE	413 J	420 J	377 J	322 J	374 J	NA	NA
Selenium	3.9	1500	18.1 U	24.2 U	21.9 U	22.8 U	18.9 U	NA	NA
Silver	2	1500	3.4 U	4.5 U	4.1 U	4.3 U	3.5 U	NA	NA
Sodium	NE	NE	313 J	235 J	249 J	75.9 J	99.2 J	NA	NA
Thallium	NE	NE	22.6 UJ	30.2 UJ	27.3 UJ	28.5 UJ	23.6 UJ	NA	NA
Vanadium	NE	NE	10.1 J	11.1 J	11.2 J	7.9 J	8.9 J	NA	NA
Zinc	109	10,000	28.6	31.5	23.7	21.4	22.9	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	0.174 J	0.604 U	0.599 U	0.639 U	0.628 U	NA	NA
Other (%)									
Moisture, Percent	NE	NE	19.4	20.4	19.8	21.8	22	NA	NA
Solids, Percent	NE	NE	80.6	79.6	80.2	78.2	78	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
BTEX (mg/kg)									
Benzene	0.06	44	0.017	0.0058 U	0.0058 U	0.031 UJ	0.0058 U	0.0053 U	0.0056 U
Toluene	0.7	500	0.077	0.0058 U	0.0058 U	0.0065 J	0.0058 U	0.0053 U	0.0056 U
Ethylbenzene	1	390	0.011 J	0.0058 U	0.0058 U	0.12 J	0.0058 U	0.0053 U	0.0056 U
Xylene, Total	0.26	500	0.54	0.0058 U	0.0058 U	11 J	0.0058 U	0.0053 U	0.0056 U
Total BTEX	NE	NE	0.645	ND	ND	11.1265	ND	ND	ND
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	14 J	0.31 U	0.31 U	27	0.31 U	0.28 U	13 J
Acenaphthylene	100	500	61	0.31 U	0.31 U	36	0.31 U	0.28 U	100
Anthracene	100	500	87	0.31 U	0.31 U	100	0.31 U	0.28 U	220
Benzo[g,h,i]perylene	100	500	49 J	0.31 U	0.31 U	35 J	0.31 U	0.28 U	71
Fluoranthene	100	500	300	0.31 U	0.31 U	260	0.31 U	0.28 U	510
Fluorene	30	500	58	0.31 U	0.31 U	66	0.31 U	0.28 U	30 J
Methylnaphthalene,2-	NE	NE	160	0.31 U	0.31 U	290	0.31 U	0.28 U	21 J

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
Naphthalene	12	500	88	0.31 U	0.31 U	200	0.31 U	0.28 U	58 U
Phenanthrene	100	500	250	0.31 U	0.31 U	320	0.073 J	0.28 U	790
Pyrene	100	500	200	0.31 U	0.31 U	170	0.31 U	0.28 U	370
Total Noncarcinogenic PAHs	NE	NE	1267	ND	ND	1504	0.073	ND	2125
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	210	0.31 U	0.31 U	140	0.31 U	0.28 U	240
Benzo[a]pyrene	1	1	110 J	0.31 U	0.31 U	71 J	0.31 U	0.28 U	140
Benzo[b]fluoranthene	1	5.6	160 J	0.31 U	0.31 U	95 J	0.31 U	0.28 U	180
Benzo[k]fluoranthene	0.8	56	61 J	0.31 U	0.31 U	40 J	0.31 U	0.28 U	80
Chrysene	1	56	190	0.31 U	0.31 U	120	0.31 U	0.28 U	210
Dibenz[a,h]anthracene	0.33	0.56	34 J	0.31 U	0.31 U	24 J	0.31 U	0.28 U	28 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	62 J	0.31 U	0.31 U	42 J	0.31 U	0.28 U	120
Total Carcinogenic PAHs	NE	NE	827	ND	ND	532	ND	ND	998
Total PAHs (mg/kg)									
Total PAHs	NE	NE	2094	ND	ND	2036	0.073	ND	3123
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-28-08 (5-10) 12/15/2008	GP-28-08 (28-30) 12/15/2008	Duplicate of: GP-28-08 (28-30) 12/15/2008	GP-29-08 (5-10) 12/15/2008	GP-29-08 (34-35) 12/15/2008	GP-30-08 (8-10) 12/16/2008	GP-31-08 (8-10) 12/16/2008
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	NA	NA	NA	NA	NA	NA	NA
Other (%)									
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-32-08 (11-13) 12/16/2008	GP-33-08 (11-13) 12/16/2008	SB-06-08 (8-10) 12/18/2008	SB-06-08 (20-22) 12/18/2008	SB-08-08 (7-9) 12/18/2008	SB-08-08 (20-22) 12/18/2008	SB-09-08 (26-27) 12/18/2008
BTEX (mg/kg)									
Benzene	0.06	44	0.0055 U	0.0061 U	0.0039 J	0.0022 J	0.0015 J	0.0062 U	0.0063 U
Toluene	0.7	500	0.0055 U	0.0061 U	0.014	0.0094 U	0.00084 J	0.0062 U	0.0063 U
Ethylbenzene	1	390	0.0055 U	0.0061 U	0.0011 J	0.0094 U	0.0054 U	0.0062 U	0.0063 U
Xylene, Total	0.26	500	0.0055 U	0.0061 U	0.028	0.0094 U	0.0054 U	0.0062 U	0.0063 U
Total BTEX	NE	NE	ND	ND	0.047	0.0022	0.00234	ND	ND
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-32-08 (11-13) 12/16/2008	GP-33-08 (11-13) 12/16/2008	SB-06-08 (8-10) 12/18/2008	SB-06-08 (20-22) 12/18/2008	SB-08-08 (7-9) 12/18/2008	SB-08-08 (20-22) 12/18/2008	SB-09-08 (26-27) 12/18/2008
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.3 U	0.33 U	0.34 U	0.49 U	0.076 J	0.33 U	0.34 U
Acenaphthylene	100	500	0.3 U	0.33 U	0.34 U	0.49 U	0.75	0.12 J	0.34 U
Anthracene	100	500	0.3 U	0.33 U	0.34 U	0.49 U	1.5	0.25 J	0.34 U
Benzo[g,h,i]perylene	100	500	0.3 U	0.33 U	0.34 U	0.49 U	0.8 J	0.66	0.34 U
Fluoranthene	100	500	0.3 U	0.33 U	0.34 U	0.49 U	5.7	1.3	0.083 J
Fluorene	30	500	0.3 U	0.33 U	0.34 U	0.49 U	0.47	0.33 U	0.34 U
Methylnaphthalene,2-	NE	NE	0.3 U	0.33 U	0.11 J	0.49 U	0.29 U	0.33 U	0.34 U

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-32-08 (11-13) 12/16/2008	GP-33-08 (11-13) 12/16/2008	SB-06-08 (8-10) 12/18/2008	SB-06-08 (20-22) 12/18/2008	SB-08-08 (7-9) 12/18/2008	SB-08-08 (20-22) 12/18/2008	SB-09-08 (26-27) 12/18/2008
Naphthalene	12	500	0.3 U	0.33 U	0.19 J	0.49 U	0.11 J	0.12 J	0.34 U
Phenanthrene	100	500	0.3 U	0.33 U	0.077 J	0.49 U	2.8	0.47	0.077 J
Pyrene	100	500	0.3 U	0.33 U	0.34 U	0.49 U	3.4	1.4	0.34 U
Total Noncarcinogenic PAHs	NE	NE	ND	ND	0.377	ND	15.606	4.32	0.16
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.3 U	0.33 U	0.34 U	0.49 U	4.2	1.2	0.34 U
Benzo[a]pyrene	1	1	0.3 U	0.33 U	0.34 U	0.49 U	2.6 J	0.74	0.34 U
Benzo[b]fluoranthene	1	5.6	0.3 U	0.33 U	0.34 U	0.49 U	3.4 J	0.84	0.34 U
Benzo[k]fluoranthene	0.8	56	0.3 U	0.33 U	0.34 U	0.49 U	1.3 J	0.39	0.34 U
Chrysene	1	56	0.3 U	0.33 U	0.34 U	0.49 U	3.5	0.98	0.34 U
Dibenz[a,h]anthracene	0.33	0.56	0.3 U	0.33 U	0.34 U	0.49 U	0.55 J	0.45	0.34 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.3 U	0.33 U	0.34 U	0.49 U	0.94 J	0.67	0.34 U
Total Carcinogenic PAHs	NE	NE	ND	ND	ND	ND	16.49	5.27	ND
Total PAHs (mg/kg)									
Total PAHs	NE	NE	ND	ND	0.377	ND	32.096	9.59	0.16
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-32-08 (11-13) 12/16/2008	GP-33-08 (11-13) 12/16/2008	SB-06-08 (8-10) 12/18/2008	SB-06-08 (20-22) 12/18/2008	SB-08-08 (7-9) 12/18/2008	SB-08-08 (20-22) 12/18/2008	SB-09-08 (26-27) 12/18/2008
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-32-08 (11-13) 12/16/2008	GP-33-08 (11-13) 12/16/2008	SB-06-08 (8-10) 12/18/2008	SB-06-08 (20-22) 12/18/2008	SB-08-08 (7-9) 12/18/2008	SB-08-08 (20-22) 12/18/2008	SB-09-08 (26-27) 12/18/2008
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-32-08 (11-13) 12/16/2008	GP-33-08 (11-13) 12/16/2008	SB-06-08 (8-10) 12/18/2008	SB-06-08 (20-22) 12/18/2008	SB-08-08 (7-9) 12/18/2008	SB-08-08 (20-22) 12/18/2008	SB-09-08 (26-27) 12/18/2008
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-32-08 (11-13) 12/16/2008	GP-33-08 (11-13) 12/16/2008	SB-06-08 (8-10) 12/18/2008	SB-06-08 (20-22) 12/18/2008	SB-08-08 (7-9) 12/18/2008	SB-08-08 (20-22) 12/18/2008	SB-09-08 (26-27) 12/18/2008
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	NA	NA	NA	NA	NA	NA	NA
Other (%)									
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-09-08 (29-30) 12/18/2008	SB-10-08 (23-25) 12/17/2008	SB-11-08 (7-9) 12/18/2008	SB-11-08 (22-24) 12/18/2008	SB-12-08 (7-9) 12/18/2008	SB-12-08 (18-20) 12/18/2008	TP-04-08 (2ft) 12/16/2008
BTEX (mg/kg)									
Benzene	0.06	44	0.0062 U	0.0064 U	0.0053 U	0.0064 U	0.0056 U	0.0059 U	0.0056 U
Toluene	0.7	500	0.0062 U	0.0064 U	0.003 J	0.0064 U	0.0056 U	0.0059 U	0.0056 U
Ethylbenzene	1	390	0.0062 U	0.0064 U	0.0053 U	0.0064 U	0.0056 U	0.0059 U	0.0056 U
Xylene, Total	0.26	500	0.0062 U	0.0064 U	0.0053 U	0.0064 U	0.0056 U	0.0059 U	0.0056 U
Total BTEX	NE	NE	ND	ND	0.003	ND	ND	ND	ND
Other VOCs (mg/kg)									
Acetone	0.05	500	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-09-08 (29-30) 12/18/2008	SB-10-08 (23-25) 12/17/2008	SB-11-08 (7-9) 12/18/2008	SB-11-08 (22-24) 12/18/2008	SB-12-08 (7-9) 12/18/2008	SB-12-08 (18-20) 12/18/2008	TP-04-08 (2ft) 12/16/2008
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.33 U	0.34 U	28 U	0.33 U	0.43 J	1.6 U	0.53 J
Acenaphthylene	100	500	0.33 U	0.34 U	42	0.33 U	2.9	3.5	2.9
Anthracene	100	500	0.33 U	0.34 U	77	0.33 U	5.7	7.2	4.6
Benzo[g,h,i]perylene	100	500	0.33 U	0.34 U	56	0.35	4.9	5.9	5.7 J
Fluoranthene	100	500	0.33 U	0.34 U	310	0.29 J	19	27	20
Fluorene	30	500	0.33 U	0.34 U	23 J	0.33 U	2.9	1.8	0.98 J
Methylnaphthalene,2-	NE	NE	0.33 U	0.34 U	6.7 J	0.33 U	0.7 J	0.89 J	1.1 J

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-09-08 (29-30) 12/18/2008	SB-10-08 (23-25) 12/17/2008	SB-11-08 (7-9) 12/18/2008	SB-11-08 (22-24) 12/18/2008	SB-12-08 (7-9) 12/18/2008	SB-12-08 (18-20) 12/18/2008	TP-04-08 (2ft) 12/16/2008
Naphthalene	12	500	0.33 U	0.34 U	14 J	0.33 U	0.69 J	1.7	1.4 J
Phenanthrene	100	500	0.33 U	0.34 U	120	0.15 J	15	7.7	10
Pyrene	100	500	0.33 U	0.34 U	250	0.25 J	16	23	17
Total Noncarcinogenic PAHs	NE	NE	ND	ND	898.7	1.04	68.22	78.69	64.21
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.33 U	0.34 U	230	0.18 J	16	22	18
Benzo[a]pyrene	1	1	0.33 U	0.34 U	140	0.082 J	10	13	15 J
Benzo[b]fluoranthene	1	5.6	0.33 U	0.34 U	150	0.12 J	10	13	15 J
Benzo[k]fluoranthene	0.8	56	0.33 U	0.34 U	65	0.054 J	4.5	5.3	6.6 J
Chrysene	1	56	0.33 U	0.34 U	180	0.14 J	14	18	16
Dibenz[a,h]anthracene	0.33	0.56	0.33 U	0.34 U	33	0.33 U	3	3.8	2.9 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.33 U	0.34 U	82	0.35	5.6	7.1	8.4 J
Total Carcinogenic PAHs	NE	NE	ND	ND	880	0.926	63.1	82.2	81.9
Total PAHs (mg/kg)									
Total PAHs	NE	NE	ND	ND	1778.7	1.966	131.32	160.89	146.11
Other SVOCs (mg/kg)									
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-09-08 (29-30) 12/18/2008	SB-10-08 (23-25) 12/17/2008	SB-11-08 (7-9) 12/18/2008	SB-11-08 (22-24) 12/18/2008	SB-12-08 (7-9) 12/18/2008	SB-12-08 (18-20) 12/18/2008	TP-04-08 (2ft) 12/16/2008
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-09-08 (29-30) 12/18/2008	SB-10-08 (23-25) 12/17/2008	SB-11-08 (7-9) 12/18/2008	SB-11-08 (22-24) 12/18/2008	SB-12-08 (7-9) 12/18/2008	SB-12-08 (18-20) 12/18/2008	TP-04-08 (2ft) 12/16/2008
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)									
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-09-08 (29-30) 12/18/2008	SB-10-08 (23-25) 12/17/2008	SB-11-08 (7-9) 12/18/2008	SB-11-08 (22-24) 12/18/2008	SB-12-08 (7-9) 12/18/2008	SB-12-08 (18-20) 12/18/2008	TP-04-08 (2ft) 12/16/2008
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)									
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)									
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	SB-09-08 (29-30) 12/18/2008	SB-10-08 (23-25) 12/17/2008	SB-11-08 (7-9) 12/18/2008	SB-11-08 (22-24) 12/18/2008	SB-12-08 (7-9) 12/18/2008	SB-12-08 (18-20) 12/18/2008	TP-04-08 (2ft) 12/16/2008
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)									
Cyanide, Total	27	27	NA	NA	NA	NA	NA	NA	NA
Other (%)									
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
BTEX (mg/kg)							
Benzene	0.06	44	0.0054 U	0.0052 U	0.0052 U	0.0063 U	0.0058 U
Toluene	0.7	500	0.0054 U	0.0052 U	0.0052 U	0.0063 U	0.0058 U
Ethylbenzene	1	390	0.0054 U	0.0052 U	0.0052 U	0.0063 U	0.0058 U
Xylene, Total	0.26	500	0.0054 U	0.0052 U	0.0052 U	0.0063 U	0.0058 U
Total BTEX	NE	NE	ND	ND	ND	ND	ND
Other VOCs (mg/kg)							
Acetone	0.05	500	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)							
Acenaphthene	20	500	0.28 U	0.51 J	0.28 U	0.34 U	0.027 J
Acenaphthylene	100	500	0.048 J	2.9	0.052 J	0.34 U	0.31 U
Anthracene	100	500	0.061 J	4.8	0.039 J	0.34 U	0.022 J
Benzo[g,h,i]perylene	100	500	0.49	5	0.32	0.34 U	0.37 J
Fluoranthene	100	500	0.51	21	0.23 J	0.025 J	0.17 J
Fluorene	30	500	0.28 U	0.91 J	0.28 U	0.34 U	0.022 J
Methylnaphthalene,2-	NE	NE	0.017 J	1.4 U	0.01 J	0.01 J	0.094 J

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Naphthalene	12	500	0.28 U	1.4 U	0.28 U	0.34 U	0.17 J
Phenanthrene	100	500	0.15 J	6.5	0.056 J	0.035 J	0.055 J
Pyrene	100	500	0.49	20	0.23 J	0.022 J	0.22 J
Total Noncarcinogenic PAHs	NE	NE	1.766	61.62	0.937	0.092	1.15
Carcinogenic PAHs (mg/kg)							
Benz[a]anthracene	1	5.6	0.39	15	0.22 J	0.016 J	0.21 J
Benzo[a]pyrene	1	1	0.5	9.6	0.21 J	0.34 U	0.27 J
Benzo[b]fluoranthene	1	5.6	0.51	9.3	0.21 J	0.34 U	0.28 J
Benzo[k]fluoranthene	0.8	56	0.21 J	4.3	0.11 J	0.34 U	0.12 J
Chrysene	1	56	0.36	12	0.19 J	0.34 U	0.2 J
Dibenz[a,h]anthracene	0.33	0.56	0.27 J	2.3	0.24 J	0.34 U	0.27 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.51	6.3	0.3	0.34 U	0.34 J
Total Carcinogenic PAHs	NE	NE	2.75	58.8	1.48	0.016	1.69
Total PAHs (mg/kg)							
Total PAHs	NE	NE	4.516	120.42	2.417	0.108	2.84
Other SVOCs (mg/kg)							
Acetophenone	NE	NE	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA

Table 2
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Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA
PCBs (mg/kg)							
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA
Pesticides (mg/kg)							
Aldrin	0.005	0.68	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA
Herbicides (mg/kg)							
D,2,4'-	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)							
Aluminum	NE	NE	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-34-09 COMP (0-5) 6/10/2009	GP-34-09 COMP (5-10) 6/10/2009	GP-35-09 COMP (5-10) 6/10/2009	GP-35-09 (30-31) 6/10/2009	GP-36-09 COMP (0-5) 6/10/2009
Potassium	NE	NE	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)							
Cyanide, Total	27	27	NA	NA	NA	NA	NA
Other (%)							
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
BTEX (mg/kg)								
Benzene	0.06	44	0.0054 U	0.0063 U	0.0053 U	0.0052 U	0.0052 U	0.0063 U
Toluene	0.7	500	0.0054 U	0.0063 U	0.0053 U	0.0052 U	0.0052 U	0.0063 U
Ethylbenzene	1	390	0.0054 U	0.0063 U	0.0053 U	0.0052 U	0.0052 U	0.0063 UJ
Xylene, Total	0.26	500	0.0054 U	0.0063 U	0.0053 U	0.0052 U	0.0052 U	0.0063 UJ
Total BTEX	NE	NE	ND	ND	ND	ND	ND	ND
Other VOCs (mg/kg)								
Acetone	0.05	500	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)								
Acenaphthene	20	500	0.28 U	0.34 U	0.28 U	0.13 J	0.28 U	0.34 U
Acenaphthylene	100	500	0.14 J	0.34 U	0.28 U	0.11 J	0.28 U	0.027 J
Anthracene	100	500	0.048 J	0.34 U	0.28 U	0.56	0.013 J	0.34 U
Benzo[g,h,i]perylene	100	500	0.98 J	0.34 U	0.28 U	0.77	0.28 U	0.34 U
Fluoranthene	100	500	1.2 J	0.34 U	0.28 U	2.4	0.022 J	0.021 J
Fluorene	30	500	0.025 J	0.34 U	0.28 U	0.19 J	0.28 U	0.34 U
Methylnaphthalene,2-	NE	NE	0.027 J	0.34 U	0.28 U	0.054 J	0.017 J	0.031 J

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Naphthalene	12	500	0.28 U	0.34 U	0.28 U	0.076 J	0.28 U	0.051 J
Phenanthrene	100	500	0.048 J	0.34 U	0.28 U	1.7	0.057 J	0.051 J
Pyrene	100	500	1.5 J	0.34 U	0.28 U	2.1	0.024 J	0.034 J
Total Noncarcinogenic PAHs	NE	NE	3.968	ND	ND	8.09	0.133	0.215
Carcinogenic PAHs (mg/kg)								
Benz[a]anthracene	1	5.6	1.5 J	0.34 U	0.28 U	1.2	0.28 U	0.018 J
Benzo[a]pyrene	1	1	1.9 J	0.34 U	0.28 U	1.2	0.28 U	0.34 U
Benzo[b]fluoranthene	1	5.6	1.8 J	0.34 U	0.28 U	1.2	0.28 U	0.34 U
Benzo[k]fluoranthene	0.8	56	0.67	0.34 U	0.28 U	0.49	0.28 U	0.34 U
Chrysene	1	56	1.4 J	0.34 U	0.28 U	1.1	0.28 U	0.34 U
Dibenz[a,h]anthracene	0.33	0.56	0.56	0.34 U	0.28 U	0.35	0.28 U	0.34 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	1 J	0.34 U	0.28 U	0.84	0.28 U	0.34 U
Total Carcinogenic PAHs	NE	NE	8.83	ND	ND	6.38	ND	0.018
Total PAHs (mg/kg)								
Total PAHs	NE	NE	12.798	ND	ND	14.47	0.133	0.233
Other SVOCs (mg/kg)								
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)								
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)								
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)								
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)								
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA

Table 2
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Saratoga (Lake Ave.) Non-Owned Former MGP Site
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Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	Duplicate of: GP-36-09 COMP (0-5) 6/10/2009	GP-36-09 (29.5-30) 6/10/2009	GP-36-09 COMP (5-10) 6/10/2009	GP-37-09 COMP (0-5) 6/10/2009	GP-37-09 COMP (5-10) 6/10/2009	GP-37-09 (30-30.5) 6/11/2009
Potassium	NE	NE	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)								
Cyanide, Total	27	27	NA	NA	NA	NA	NA	NA
Other (%)								
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
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Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Interval (feet): / Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
BTEX (mg/kg)								
Benzene	0.06	44	0.0053 U	0.0052 U	0.0063 UJ	0.0053 U	0.0052 U	0.00091 J
Toluene	0.7	500	0.0053 U	0.0052 U	0.0063 UJ	0.00037 J	0.00028 J	0.00042 J
Ethylbenzene	1	390	0.0053 U	0.0052 U	0.0063 UJ	0.0053 U	0.0052 U	0.0062 U
Xylene, Total	0.26	500	0.0053 U	0.0052 U	0.0063 UJ	0.0053 U	0.0052 U	0.0062 U
Total BTEX	NE	NE	ND	ND	ND	0.00037	0.00028	0.00133
Other VOCs (mg/kg)								
Acetone	0.05	500	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Bromoform	NE	NE	NA	NA	NA	NA	NA	NA
Bromomethane	NE	NE	NA	NA	NA	NA	NA	NA
Butanone,2- (MEK)	0.12	500	NA	NA	NA	NA	NA	NA
Carbon disulfide	NE	NE	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.76	22	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	500	NA	NA	NA	NA	NA	NA
Chloroethane	NE	NE	NA	NA	NA	NA	NA	NA
Chloroform	0.37	350	NA	NA	NA	NA	NA	NA
Chloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Cyclohexane	NE	NE	NA	NA	NA	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NE	NE	NA	NA	NA	NA	NA	NA
Dibromoethane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	1.1	500	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	2.4	280	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	1.8	130	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NE	NE	NA	NA	NA	NA	NA	NA
Dichloroethane,1,1-	0.27	240	NA	NA	NA	NA	NA	NA
Dichloroethane,1,2-	0.02	30	NA	NA	NA	NA	NA	NA
Dichloroethene, cis-1,2-	0.25	500	NA	NA	NA	NA	NA	NA
Dichloroethene,1,1-	0.33	500	NA	NA	NA	NA	NA	NA

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Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Dichloropropane,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NE	NA	NA	NA	NA	NA	NA
Dichloropropene, trans-1,3	NE	NE	NA	NA	NA	NA	NA	NA
Hexanone,2-	NE	NE	NA	NA	NA	NA	NA	NA
Isopropyl benzene	NE	NE	NA	NA	NA	NA	NA	NA
Methyl Acetate	NE	NE	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.93	500	NA	NA	NA	NA	NA	NA
Methyl-2-pentanone,4-	NE	NE	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NE	NE	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	500	NA	NA	NA	NA	NA	NA
Styrene	NE	NE	NA	NA	NA	NA	NA	NA
Tetrachloroethane,1,1,2,2-	NE	NE	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.3	150	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	0.19	500	NA	NA	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,1-	0.68	500	NA	NA	NA	NA	NA	NA
Trichloroethane,1,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Trichloroethene	0.47	200	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NE	NE	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	13	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)								
Acenaphthene	20	500	0.28 U	0.28 U	0.34 U	0.28 U	0.27 U	0.33 U
Acenaphthylene	100	500	0.28 U	0.03 J	0.34 U	0.28 U	0.27 U	0.33 U
Anthracene	100	500	0.017 J	0.023 J	0.34 U	0.28 U	0.27 U	0.33 U
Benzo[g,h,i]perylene	100	500	0.3	0.34	0.34 U	0.28 J	0.27 U	0.33 U
Fluoranthene	100	500	0.12 J	0.23 J	0.34 U	0.023 J	0.27 U	0.33 U
Fluorene	30	500	0.28 U	0.28 U	0.34 U	0.28 U	0.27 U	0.33 U
Methylnaphthalene,2-	NE	NE	0.28 U	0.28 U	0.34 U	0.03 J	0.27 U	0.33 U

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Naphthalene	12	500	0.28 U	0.28 U	0.34 U	0.28 U	0.27 U	0.33 U
Phenanthrene	100	500	0.046 J	0.042 J	0.34 U	0.027 J	0.27 U	0.33 U
Pyrene	100	500	0.11 J	0.22 J	0.34 U	0.027 J	0.27 U	0.33 U
Total Noncarcinogenic PAHs	NE	NE	0.593	0.885	ND	0.387	ND	ND
Carcinogenic PAHs (mg/kg)								
Benz[a]anthracene	1	5.6	0.1 J	0.2 J	0.34 U	0.03 J	0.27 U	0.33 U
Benzo[a]pyrene	1	1	0.11 J	0.25 J	0.34 U	0.036 J	0.27 U	0.33 U
Benzo[b]fluoranthene	1	5.6	0.12 J	0.26 J	0.34 U	0.039 J	0.27 U	0.33 U
Benzo[k]fluoranthene	0.8	56	0.049 J	0.11 J	0.34 U	0.28 U	0.27 U	0.33 U
Chrysene	1	56	0.093 J	0.17 J	0.34 U	0.029 J	0.27 U	0.33 U
Dibenz[a,h]anthracene	0.33	0.56	0.23 J	0.24 J	0.34 U	0.28 U	0.27 U	0.33 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.27 J	0.34	0.34 U	0.24 J	0.27 U	0.33 U
Total Carcinogenic PAHs	NE	NE	0.972	1.57	ND	0.374	ND	ND
Total PAHs (mg/kg)								
Total PAHs	NE	NE	1.565	2.455	ND	0.761	ND	ND
Other SVOCs (mg/kg)								
Acetophenone	NE	NE	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NE	NE	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NE	NE	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	NE	NE	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol,4-	NE	NE	NA	NA	NA	NA	NA	NA

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Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Chloroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA
Chloronaphthalene,2-	NE	NE	NA	NA	NA	NA	NA	NA
Chlorophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dibenzofuran	7	350	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,2-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,3-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzene,1,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NE	NA	NA	NA	NA	NA	NA
Dichlorophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol,4,6-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrophenol,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Dinitrotoluene,2,6-	NE	NE	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	6	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NA	NA	NA	NA	NA	NA
Methylphenol,4-	0.33	500	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.33	500	NA	NA	NA	NA	NA	NA
Nitroaniline,2-	NE	NE	NA	NA	NA	NA	NA	NA
Nitroaniline,3-	NE	NE	NA	NA	NA	NA	NA	NA
Nitroaniline,4-	NE	NE	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
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Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Nitrophenol,2-	NE	NE	NA	NA	NA	NA	NA	NA
Nitrophenol,4-	NE	NE	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NE	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	6.7	NA	NA	NA	NA	NA	NA
Phenol	0.33	500	NA	NA	NA	NA	NA	NA
Trichlorobenzene,1,2,4-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NE	NA	NA	NA	NA	NA	NA
Trichlorophenol,2,4,6-	NE	NE	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)								
Aroclor 1016	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1221	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1232	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1242	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1248	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1254	NE	NE	NA	NA	NA	NA	NA	NA
Aroclor 1260	NE	NE	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg)								
Aldrin	0.005	0.68	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	3.4	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.094	24	NA	NA	NA	NA	NA	NA
Beta-BHC	0.036	3	NA	NA	NA	NA	NA	NA
Chlordane, trans-	NE	NE	NA	NA	NA	NA	NA	NA
DDD,4,4'-	0.0033	92	NA	NA	NA	NA	NA	NA
DDE,4,4'-	0.0033	62	NA	NA	NA	NA	NA	NA
DDT,4,4'-	0.0033	47	NA	NA	NA	NA	NA	NA
Delta-BHC	0.04	500	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	1.4	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	200	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	200	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Endosulfan Sulfate	2.4	200	NA	NA	NA	NA	NA	NA
Endrin	0.014	89	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NE	NE	NA	NA	NA	NA	NA	NA
Endrin Ketone	NE	NE	NA	NA	NA	NA	NA	NA
Gamma-BHC	0.1	9.2	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	15	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NE	NE	NA	NA	NA	NA	NA	NA
Methoxychlor	NE	NE	NA	NA	NA	NA	NA	NA
Toxaphene	NE	NE	NA	NA	NA	NA	NA	NA
Herbicides (mg/kg)								
D,2,4'-	NA	NA	NA	NA	NA	NA	NA	NA
Silvex	NA	NA	NA	NA	NA	NA	NA	NA
T,2,4,5-	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)								
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NA	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	NA	NA	NA	NA
Beryllium	7.2	590	NA	NA	NA	NA	NA	NA
Cadmium	2.5	9.3	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA
Lead	63	1000	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA
Manganese	1600	10,000	NA	NA	NA	NA	NA	NA
Mercury	0.18	2.8	NA	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Interval (feet):** **Sample Date:**	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL	GP-38-09 COMP (0-5) 6/10/2009	GP-38-09 COMP (5-10) 6/10/2009	GP-38-09 (30-30.5) 6/10/2009	GP-39-09 COMP (0-5) 6/11/2009	GP-39-09 COMP (5-10) 6/11/2009	GP-39-09 (39.5-40) 6/11/2009
Potassium	NE	NE	NA	NA	NA	NA	NA	NA
Selenium	3.9	1500	NA	NA	NA	NA	NA	NA
Silver	2	1500	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	NA	NA	NA
Total Cyanide (mg/kg)								
Cyanide, Total	27	27	NA	NA	NA	NA	NA	NA
Other (%)								
Moisture, Percent	NE	NE	NA	NA	NA	NA	NA	NA
Solids, Percent	NE	NE	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NA	NA	NA	NA	NA	NA

Table 2
Sub-Surface Soil Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Notes:

mg/kg - milligrams/kilogram or parts per million (ppm)
BTEX - benzene, toluene, ethylbenzene, and xylenes
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
SVOCs - semivolatile organic compounds
PCBs - Polychlorinated Biphenyls
Total BTEX and Total PAHs are calculated using detects only.

6 NYCRR -New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York

6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Restricted Use Commercial Soil Cleanup Objectives

NE - not established
NA - not analyzed
ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Yellow shading indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED and 6 NYCRR 375 SCO RESTRICTED USE COMMERCIAL
Gray shading indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED USE

Validation Qualifiers:

J - estimated value
U - indicates not detected at or above the reporting limit shown
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 3
Soil Waste Characteristic Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	Regulatory Limits: 40 CFR 261	Soil Leachate: SB-07-08 (COMP) 12/18/2008	Tar Leachate: OR-01-08 WASTE 09 S 6/10/2009
BTEX (mg/kg) by EPA Method 8260			
Benzene	NE	130 J	3100
Toluene	NE	300 J	5000
Ethylbenzene	NE	28 J	360
Xylene, Total	NE	420 J	5600
Other VOCs (mg/kg) by EPA Method 8260			
Acetone	NE	30 UJ	630 U *
Bromodichloromethane	NE	12 UJ	250 U
Bromoform	NE	12 UJ	250 U
Bromomethane	NE	12 UJ	250 U
Butanone,2- (MEK)	NE	12 UJ	250 U *
Carbon disulfide	NE	12 UJ	250 U
Carbon tetrachloride	NE	12 UJ	250 U
Chlorobenzene	NE	12 UJ	250 U
Chloroethane	NE	12 UJ	250 U
Chloroform	NE	12 UJ	250 U
Chloromethane	NE	12 UJ	250 U
Dibromochloromethane	NE	12 UJ	250 U
Dichloroethane,1,1-	NE	12 UJ	250 U
Dichloroethane,1,2-	NE	12 UJ	250 U
Dichloroethene, cis-1,2-	NE	12 UJ	250 U
Dichloroethene,1,1-	NE	12 UJ	250 U
Dichloropropane,1,2-	NE	12 UJ	250 U
Dichloropropene, cis-1,3	NE	12 UJ	250 U
Dichloropropene, trans-1,3	NE	12 UJ	250 U
Hexanone,2-	NE	12 UJ	250 U
Methyl-2-pentanone,4-	NE	12 UJ	250 U
Methylene chloride	NE	12 UJ	210 J B
Styrene	NE	86 J	1100
Tetrachloroethane,1,1,2,2-	NE	12 UJ	250 U
Tetrachloroethene	NE	12 UJ	250 U
Trans-1,2-Dichloroethene	NE	12 UJ	250 U
Trichloroethane,1,1,1-	NE	12 UJ	250 U
Trichloroethane,1,1,2-	NE	12 UJ	250 U
Trichloroethene	NE	12 UJ	250 U
Vinyl chloride	NE	12 UJ	250 U
Non-carcinogenic PAHs (mg/kg) by EPA Method 8270			
Acenaphthene	NE	92 J	75 J
Acenaphthylene	NE	560	480
Anthracene	NE	480	380
Benzo[g,h,i]perylene	NE	59 J	280 J
Fluoranthene	NE	570	470
Fluorene	NE	620	470

Table 3
Soil Waste Characteristic Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Date:**	Regulatory Limits: 40 CFR 261	Soil Leachate: SB-07-08 (COMP) 12/18/2008	Tar Leachate: OR-01-08 WASTE 09 S 6/10/2009
Methylnaphthalene,2-	NE	1300	1100
Naphthalene	NE	2600	2200
Phenanthrene	NE	1200	930
Pyrene	NE	470	270 J
Carcinogenic PAHs (mg/kg) by EPA Method 8270			
Benz[a]anthracene	NE	320	260 J
Benzo[a]pyrene	NE	210	180 J
Benzo[b]fluoranthene	NE	230	170 J
Benzo[k]fluoranthene	NE	100 J	69 J
Chrysene	NE	280	220 J
Dibenz[a,h]anthracene	NE	33 J	300 J
Indeno[1,2,3-cd]pyrene	NE	180	380
Other SVOCs (mg/kg) by EPA Method 8270			
Benzyl alcohol	NE	160 U	340 U
Bis(2-chloroethoxy)methane	NE	160 U	340 U
Bis(2-chloroethyl)ether	NE	160 U	340 U
Bis(2-ethylhexyl)phthalate	NE	160 U	340 U
Bis(chloroisopropyl)ether	NE	160 U	340 U
Bromophenyl phenyl ether,4-	NE	160 U	340 U
Butyl benzyl phthalate	NE	160 U	340 U
Carbazole	NE	160 U	170 J
Chloro-3-methylphenol,4-	NE	160 U	340 U
Chloroaniline,4-	NE	160 U	340 U
Chloronaphthalene,2-	NE	160 U	340 U
Chlorophenol,2-	NE	160 U	340 U
Chlorophenyl phenyl ether,4-	NE	160 U	340 U
Dibenzofuran	NE	160 U	300 J
Dichlorobenzene,1,2-	NE	160 U	340 U
Dichlorobenzene,1,3-	NE	160 U	340 U
Dichlorobenzene,1,4-	NE	160 U	340 U
Dichlorobenzidine,3,3-	NE	400 U	840 U
Dichlorophenol,2,4-	NE	160 U	340 U
Diethyl phthalate	NE	160 U	340 U
Dimethyl phthalate	NE	160 U	340 U
Dimethylphenol, 2,4-	NE	160 U	180 J
Di-n-butyl phthalate	NE	160 U	340 U
Dinitro-2-methylphenol,4,6-	NE	1000 U	2100 U
Dinitrophenol,2,4-	NE	1000 U	2100 U *
Dinitrotoluene,2,4-	NE	160 U	340 U
Dinitrotoluene,2,6-	NE	160 U	340 U
Di-n-octyl phthalate	NE	160 U	340 U
Hexachlorobenzene	NE	160 U	340 U
Hexachlorobutadiene	NE	160 U	340 U

Table 3
Soil Waste Characteristic Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Date:**	Regulatory Limits: 40 CFR 261	Soil Leachate: SB-07-08 (COMP) 12/18/2008	Tar Leachate: OR-01-08 WASTE 09 S 6/10/2009
Hexachlorocyclopentadiene	NE	400 U	840 U
Hexachloroethane	NE	160 U	340 U
Isophorone	NE	160 U	340 U
Methylphenol, 4-	NE	160 U	340 J
Methylphenol,2-	NE	160 U	120 J
Nitroaniline,2-	NE	1000 U	2100 U
Nitroaniline,3-	NE	1000 U	2100 U
Nitroaniline,4-	NE	160 U	340 U
Nitrobenzene	NE	160 U	340 U
Nitrophenol,2-	NE	160 U	340 U
Nitrophenol,4-	NE	1000 U	2100 U
N-Nitrosodi-n-propylamine	NE	160 U	340 U
N-Nitrosodiphenylamine	NE	160 U	340 U
Pentachlorophenol	NE	1000 U	2100 U *
Phenol	NE	160 U	150 J
Trichlorobenzene,1,2,4-	NE	160 U	340 U
Trichlorophenol,2,4,5-	NE	1000 U	2100 U
Trichlorophenol,2,4,6-	NE	160 U	340 U
TCLP VOCs (mg/L)			
Benzene	0.5	11 B	28
Butanone,2- (MEK)	200	1 U	2.5 U *
Carbon tetrachloride	0.5	0.5 U	1.2 U
Chlorobenzene	100	0.5 U	1.2 U
Chloroform	6	0.5 U	1.2 U
Dichloroethane,1,2-	0.5	0.5 U	1.2 U
Dichloroethene,1,1-	0.7	0.5 U	1.2 U
Tetrachloroethene	0.7	0.5 U	1.2 U
Trichloroethene	0.5	0.5 U	1.2 U
Vinyl chloride	0.2	0.5 U	1.2 U
TCLP SVOCs (mg/L)			
Dichlorobenzene,1,4-	7.5	4 U	20 U
Dinitrotoluene,2,4-	0.13	4 U	20 U
Hexachlorobenzene	0.13	4 U	20 U
Hexachlorobutadiene	0.5	4 U	20 U
Hexachloroethane	3	4 U	20 U
Methylphenol, 4-	200	23	140
Methylphenol,2-	200	9	54
Nitrobenzene	2	4 U	20 U
Pentachlorophenol	100	20 U	100 U
Pyridine	5	8 U	40 U
Trichlorophenol,2,4,5-	400	20 U	100 U
Trichlorophenol,2,4,6-	2	4 U	20 U

Table 3
Soil Waste Characteristic Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	Regulatory Limits: 40 CFR 261	Soil Leachate: SB-07-08 (COMP) 12/18/2008	Tar Leachate: OR-01-08 WASTE 09 S 6/10/2009
PCBs (mg/kg)			
Aroclor 1016	NE	0.2 U	0.21 U
Aroclor 1221	NE	0.39 U	0.21 U
Aroclor 1232	NE	0.2 U	0.21 U
Aroclor 1242	NE	0.2 U	0.21 U
Aroclor 1248	NE	0.2 U	0.21 U
Aroclor 1254	NE	1.4	0.21 U
Aroclor 1260	NE	0.2 U	0.5
Pesticides (mg/kg)			
Aldrin	NE	0.025 U	NA
Alpha-BHC	NE	0.025 UJ	NA
Alpha-Chlordane	NE	0.025 UJ	NA
Beta-BHC	NE	0.037 JN	NA
Chlordane, trans-	NE	0.025 UJ	NA
DDD,4,4'-	NE	0.049 UJ	NA
DDE,4,4'-	NE	0.049 UJ	NA
DDT,4,4'-	NE	0.22 J	NA
Delta-BHC	NE	0.025 UJ	NA
Dieldrin	NE	0.019 J	NA
Endosulfan I	NE	0.025 UJ	NA
Endosulfan II	NE	0.049 UJ	NA
Endosulfan Sulfate	NE	0.15 JN	NA
Endrin	NE	0.04 J	NA
Endrin Aldehyde	NE	0.049 UJ	NA
Endrin Ketone	NE	0.049 UJ	NA
Gamma-BHC	NE	0.025 UJ	NA
Heptachlor	NE	0.04 J	NA
Heptachlor epoxide	NE	0.025 UJ	NA
Methoxychlor	NE	0.25 UJ	NA
Toxaphene	NE	1.2 U	NA
TCLP Pesticides (mg/L)			
Chlordane	0.03	NA	0.0025 U
Endrin	0.02	NA	0.0005 U
Gamma-BHC	NE	NA	0.00025 U
Heptachlor	0.008	NA	0.00025 J
Heptachlor epoxide	NE	NA	0.00025 U
Methoxychlor	10	NA	0.0025 U *
Toxaphene	0.5	NA	0.012 U
Herbicides (mg/kg)			
D,2,4'-	NE	0.095 UJ	NA
Silvex	NE	0.024 U	NA
T,2,4,5-	NE	0.024 U	NA

Table 3
Soil Waste Characteristic Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Date:**	Regulatory Limits: 40 CFR 261	Soil Leachate: SB-07-08 (COMP) 12/18/2008	Tar Leachate: OR-01-08 WASTE 09 S 6/10/2009
TCLP Herbicides (mg/L)			
D,2,4'-	10	NA	0.05 U
Silvex	1	NA	0.05 U
Metals (mg/kg)			
Aluminum	NE	5360	NA
Antimony	NE	11.4 U	NA
Arsenic	NE	8.8	13
Barium	NE	38.6	3.2
Beryllium	NE	0.35 J	NA
Cadmium	NE	5.7 U	1.6 U
Calcium	NE	26600	NA
Chromium	NE	6.8	1.6 U
Cobalt	NE	4	NA
Copper	NE	12.5	NA
Iron	NE	10900	NA
Lead	NE	43.4	19.6
Magnesium	NE	4000	NA
Manganese	NE	282	NA
Mercury	NE	0.19	0.098
Nickel	NE	9.9	NA
Potassium	NE	945	NA
Selenium	NE	11.4 U	11.8 U
Silver	NE	3.4 U	1.6 U
Sodium	NE	466	NA
Thallium	NE	8 U	NA
Vanadium	NE	12.7	NA
Zinc	NE	35.5	NA
TCLP Metals (mg/L)			
Arsenic	5	0.1 U	0.022 J
Barium	100	0.37	0.036
Cadmium	1	0.05 U	0.025 U
Chromium	5	0.05 U	0.025 U
Lead	5	0.05 U	0.075 U
Mercury	0.2	0.002 U	0.002 U
Selenium	1	0.044 J	0.19 U
Silver	5	0.05 U	0.025 U
Cyanides (mg/kg)			
Cyanide Reactivity	NE	0.5 U	0.5 U
Total Cyanide (mg/kg)			
Cyanide, Total	NE	2.2	1.18

Table 3
Soil Waste Characteristic Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Date:**	Regulatory Limits: 40 CFR 261	Soil Leachate: SB-07-08 (COMP) 12/18/2008	Tar Leachate: OR-01-08 WASTE 09 S 6/10/2009
Disposal			
Bristish Thermal Units (btu/lb)	NE	DNF	13100
Ignitibility (mm/sec)	Passes	neg	neg
pH (standard units)	Not Corrosive	7.75 HF	7 HF
PHC as Diesel Fuel (Spectrum) (mg/kg)	NE	65000	590000
Sulfide Reactivity (mg/kg)	NE	20 U	20 U
Temperature at Analysis (deg f)	NE	1960	1890
Other			
Paint Filter	NE	NA	present
Solids, Percent (%)	NE	84.4	NA
Sulfur (mg/kg)	NE	851	9230

Table 3
Soil Waste Characteristic Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Notes:

Non-TCLP results for the 2008 sample have been validated. Qualifiers are validator qualifiers.
No results for the 2009 sample have been validated. Qualifiers are laboratory qualifiers.

mg/kg - milligrams per kilogram or parts per million (ppm)
mg/L - milligrams per liter
btu/lb - British Thermal Units per pound
mm/sec - millimeters per second
deg f - degrees Fahrenheit

VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
TCLP- Toxicity Characteristics Leaching Procedure
PCBs - Polychlorinated Biphenyls

40 CFR Part 261 - Regulatory Determination on Wastes from the Combustion of Fossil Fuels

NE - not established
NA - not analyzed
Gray shading indicates that the detected result value exceeds established 40 CFR 261

Data Qualifiers:

J - estimated value
JN - analyte is presumptively present at an approximated quantity
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for
B - Analyte detected in the associated method blank
H - sample prepped or analyzed beyond hold time.
UH - indicates not detected to the reporting limit for organic analysis and the method detection limit for
* - Duplicate analysis not within control limits
HF - indicate pH was performed in the laboratory outside the 15 minute timeframe.
DNF - "Did Not Fire". There was no measurable heat content in the sample. This is equivalent to a result of "Not Detected".
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 4
Gas Holder Foundation Water Waste Characterization Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Date:**	Regulatory Limits: 40 CFR 261	OR-01-08 WASTE 09 A 6/10/2009
BTEX (ug/L) by EPA Method 8260		
Benzene	NE	5600
Toluene	NE	5300
Ethylbenzene	NE	180 J
Xylene, Total	NE	3400
Other VOCs (ug/L) by EPA Method 8260		
Acetone	NE	500 U *
Bromodichloromethane	NE	250 U
Bromoform	NE	250 U
Bromomethane	NE	250 U
Butanone,2- (MEK)	NE	500 U *
Carbon disulfide	NE	250 U
Carbon tetrachloride	NE	250 U
Chlorobenzene	NE	250 U
Chloroethane	NE	250 U
Chloroform	NE	250 U
Chloromethane	NE	250 U
Dibromochloromethane	NE	250 U
Dichloroethane,1,1-	NE	250 U
Dichloroethane,1,2-	NE	250 U
Dichloroethene, cis-1,2-	NE	250 U
Dichloroethene,1,1-	NE	250 U
Dichloropropane,1,2-	NE	250 U
Dichloropropene, cis-1,3	NE	250 U
Dichloropropene, trans-1,3	NE	250 U
Hexanone,2-	NE	500 U
Methyl-2-pentanone,4-	NE	500 U
Methylene chloride	NE	47 J B
Styrene	NE	790
Tetrachloroethane,1,1,2,2-	NE	250 U
Tetrachloroethene	NE	250 U
Trans-1,2-Dichloroethene	NE	250 U
Trichloroethane,1,1,1-	NE	250 U
Trichloroethane,1,1,2-	NE	250 U
Trichloroethene	NE	250 U
Vinyl chloride	NE	250 U
Non-carcin PAHs (ug/L) by EPA Method 8270		
Acenaphthene	NE	800 U
Acenaphthylene	NE	280 J
Anthracene	NE	800 U
Benzo[g,h,i]perylene	NE	800 U
Fluoranthene	NE	800 U
Fluorene	NE	140 J
Methylnaphthalene,2-	NE	840
Naphthalene	NE	4800

Table 4
Gas Holder Foundation Water Waste Characterization Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Date:**	Regulatory Limits: 40 CFR 261	OR-01-08 WASTE 09 A 6/10/2009
Phenanthrene	NE	110 J
Pyrene	NE	800 U
Carcinogenic PAHs (ug/L) by EPA Method 8270		
Benz[a]anthracene	NE	800 U
Benzo[a]pyrene	NE	800 U
Benzo[b]fluoranthene	NE	800 U
Benzo[k]fluoranthene	NE	800 U
Chrysene	NE	800 U
Dibenz[a,h]anthracene	NE	800 U
Indeno[1,2,3-cd]pyrene	NE	800 U
Other SVOCs (ug/L) by EPA Method 8270		
Benzyl alcohol	NE	800 U
Bis(2-chloroethoxy)methane	NE	800 U
Bis(2-chloroethyl)ether	NE	800 U
Bis(2-ethylhexyl)phthalate	NE	800 U
Bis(chloroisopropyl)ether	NE	800 U
Bromophenyl phenyl ether,4-	NE	800 U
Butyl benzyl phthalate	NE	800 U
Carbazole	NE	300 J
Chloro-3-methylphenol,4-	NE	1000 U
Chloroaniline,4-	NE	800 U
Chloronaphthalene,2-	NE	800 U
Chlorophenol,2-	NE	800 U
Chlorophenyl phenyl ether,4-	NE	800 U
Dibenzofuran	NE	110 J
Dichlorobenzene,1,2-	NE	800 U
Dichlorobenzene,1,3-	NE	800 U
Dichlorobenzene,1,4-	NE	800 U
Dichlorobenzidine,3,3-	NE	800 U
Dichlorophenol,2,4-	NE	800 U
Diethyl phthalate	NE	800 U
Dimethyl phthalate	NE	800 U
Dimethylphenol, 2,4-	NE	3600
Di-n-butyl phthalate	NE	800 U
Dinitro-2-methylphenol,4,6-	NE	5000 U
Dinitrophenol,2,4-	NE	5000 U
Dinitrotoluene,2,4-	NE	800 U
Dinitrotoluene,2,6-	NE	800 U
Di-n-octyl phthalate	NE	800 U
Hexachlorobenzene	NE	800 U
Hexachlorobutadiene	NE	800 U
Hexachlorocyclopentadiene	NE	800 U
Hexachloroethane	NE	800 U
Isophorone	NE	800 U
Methylphenol, 4-	NE	15000

Table 4
Gas Holder Foundation Water Waste Characterization Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Date:**	Regulatory Limits: 40 CFR 261	OR-01-08 WASTE 09 A 6/10/2009
Methylphenol,2-	NE	8100
Nitroaniline,2-	NE	800 U
Nitroaniline,3-	NE	800 U
Nitroaniline,4-	NE	800 U
Nitrobenzene	NE	800 U
Nitrophenol,2-	NE	800 U
Nitrophenol,4-	NE	2000 U
N-Nitrosodi-n-propylamine	NE	800 U
N-Nitrosodiphenylamine	NE	800 U
Pentachlorophenol	NE	5000 U
Phenol	NE	4900
Trichlorobenzene,1,2,4-	NE	800 U
Trichlorophenol,2,4,5-	NE	2000 U
Trichlorophenol,2,4,6-	NE	800 U
TCLP VOCs (mg/L)		
Benzene	0.5	7.2
Butanone,2- (MEK)	200	0.5 U *
Carbon tetrachloride	0.5	0.25 U
Chlorobenzene	100	0.25 U
Chloroform	6	0.25 U
Dichloroethane,1,2-	0.5	0.25 U
Dichloroethene,1,1-	0.7	0.25 U
Tetrachloroethene	0.7	0.25 U
Trichloroethene	0.5	0.25 U
Vinyl chloride	0.2	0.25 U
TCLP SVOCs (mg/L)		
Dichlorobenzene,1,4-	7.5	10 U
Dinitrotoluene,2,4-	0.13	10 U
Hexachlorobenzene	0.13	10 U
Hexachlorobutadiene	0.5	10 U
Hexachloroethane	3	10 U
Methylphenol, 4-	200	39
Methylphenol,2-	200	18
Nitrobenzene	2	10 U
Pentachlorophenol	100	50 U
Pyridine	5	20 U
Trichlorophenol,2,4,5-	400	50 U
Trichlorophenol,2,4,6-	2	10 U

Table 4
Gas Holder Foundation Water Waste Characterization Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: **Sample Date:**	Regulatory Limits: 40 CFR 261	OR-01-08 WASTE 09 A 6/10/2009
PCBs (ug/L)		
Aroclor 1016	NE	0.5 U
Aroclor 1221	NE	0.5 U
Aroclor 1232	NE	0.5 U
Aroclor 1242	NE	0.5 U
Aroclor 1248	NE	0.5 U
Aroclor 1254	NE	0.5 U
Aroclor 1260	NE	0.5 U
TCLP Pesticides (mg/L)		
Chlordane	0.03	0.0025 U
Endrin	0.02	0.0005 U
Gamma-BHC	NE	0.00022 J
Heptachlor	0.008	0.0001 J
Heptachlor epoxide	NE	0.00025 U
Methoxychlor	10	0.0025 U *
Toxaphene	0.5	0.012 U
TCLP Herbicides (mg/L)		
D,2,4'-	10	0.05 U
Silvex	1	0.05 U
Total Metals (ug/L)		
Arsenic	NE	64.7 J
Barium	NE	252
Cadmium	NE	25 U
Chromium	NE	12.7 J
Lead	NE	178
Mercury	NE	0.57
Selenium	NE	190 U
Silver	NE	25 U
TCLP Metals (mg/L)		
Arsenic	5	0.039 J
Barium	100	0.18
Cadmium	1	0.025 U
Chromium	5	0.025 U
Lead	5	0.075 U
Mercury	0.2	0.002 U
Selenium	1	0.19 U
Silver	5	0.025 U
Cyanides (mg/kg)		
Cyanide Reactivity	NE	0.5 U
Total Cyanide (ug/L)		
Cyanide, Total	NE	17
Disposal		
Flash Point (deg f)	Passes	>200
pH (standard units)	Not Corrosive	7.78 HF
PHC as Diesel Fuel (Spectrum) (ug/L)	NE	540000
Sulfide Reactivity (mg/L)	NE	20 U

Table 4
Gas Holder Foundation Water Waste Characterization Analytical Results
Toxicity Characteristic Leaching Procedure
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Notes:

The results for this sample have not been validated. Qualifiers are Laboratory Qualifiers.

mg/kg - milligrams per kilogram or parts per million (ppm)
mg/L - milligrams per liter
ug/L - micrograms per liter or parts per billion (ppb)
deg f - degrees Fahrenheit

VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
PCBs - Polychlorinated Biphenyls
TCLP - Toxicity Characteristics Leaching Procedure

40 CFR Part 261 - Regulatory Determination on Wastes from the Combustion of Fossil Fuels

NE - not established

Gray shading indicates that the detected result value exceeds established 40 CFR 261

Laboratory Qualifiers:

J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
B - Analyte detected in the associated method blank
* - Duplicate analysis not within control limits
HF - indicate pH was performed in the laboratory outside the 15 minute timeframe

Table 5
Groundwater Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Validated

Sample Name: / Sample Date:	NYS AWQS	MW-01-03 12/9/2003	MW-01-05 11/16/2005	Duplicate of: MW-01-05 11/16/2005	MW-01-08 12/16/2008	MW-02-03 12/9/2003	MW-02-05 11/17/2005	MW-02-08 12/16/2008
BTEX (ug/l)								
Benzene	1	10 U	5 U	5 U	2.9 J	10 U	5 U	5 U
Toluene	5	10 U	5 U	5 U	5 U	10 U	5 U	5 U
Ethylbenzene	5	10 U	5 U	5 U	5 U	10 U	5 U	5 U
Xylene, Total	5	10 U	5 U	5 U	5 U	10 U	5 U	5 U
Total BTEX	NE	ND	ND	ND	2.9	ND	ND	ND
Other VOCs (ug/l)								
Total BTEX, Total VOCs,	50*	10 U	NA	NA	NA	10 U	NA	NA
equivalents are	50*	10 U	NA	NA	5 U	10 U	NA	5 U
Bromoform	50*	10 U	NA	NA	NA	10 U	NA	NA
Bromomethane	5	10 U	NA	NA	5 UJ	10 U	NA	5 UJ
Butanone, 2- (MEK)	50*	10 U	NA	NA	NA	10 U	NA	NA
Carbon disulfide	60*	10 U	NA	NA	5 U	10 U	NA	5 U
Carbon tetrachloride	5	10 U	NA	NA	NA	10 U	NA	NA
Chlorobenzene	5	10 U	NA	NA	5 U	10 U	NA	5 U
Chloroethane	5	10 U	NA	NA	NA	10 U	NA	NA
Chloroform	7	6 J	NA	NA	2.9 J	30	NA	5 U
Chloromethane	5	10 U	NA	NA	NA	10 U	NA	NA
Cyclohexane	NE	10 U	NA	NA	NA	10 U	NA	NA
Dibromo-3-chloropropane, 1,2-	0.04	R	NA	NA	NA	R	NA	NA
Dibromochloromethane	50*	10 U	NA	NA	5 U	10 U	NA	5 U
Dibromoethane, 1,2-	0.0006	10 U	NA	NA	NA	10 U	NA	NA
Dichlorobenzene, 1,2-	3	10 U	NA	NA	NA	10 U	NA	NA
Dichlorobenzene, 1,3-	3	10 U	NA	NA	NA	10 U	NA	NA
Dichlorobenzene, 1,4-	3	10 U	NA	NA	NA	10 U	NA	NA
Dichlorodifluoromethane	5	10 U	NA	NA	NA	10 U	NA	NA
Dichloroethane, 1,1-	5	10 U	NA	NA	NA	10 U	NA	NA
Dichloroethane, 1,2-	0.6	10 U	NA	NA	5 U	10 U	NA	5 U
Dichloroethene, cis-1,2-	5	10 U	NA	NA	5 U	10 U	NA	5 U
Dichloroethene, 1,1-	0.07	10 U	NA	NA	NA	10 U	NA	NA
Dichloropropane, 1,2-	1	10 U	NA	NA	NA	10 U	NA	NA
Dichloropropene, cis-1,3	NE	10 U	NA	NA	5 U	10 U	NA	5 U
Dichloropropene, trans-1,3	NE	10 U	NA	NA	NA	10 U	NA	NA
Hexanone, 2-	50*	10 U	NA	NA	10 U	10 U	NA	10 U
Isopropyl benzene	5	10 U	NA	NA	NA	10 U	NA	NA
Methyl Acetate	NE	10 UJ	NA	NA	NA	10 UJ	NA	NA
Methyl tert-butyl ether	10*	10 U	NA	NA	NA	10 U	NA	NA
Methyl-2-pentanone, 4-	NE	10 U	NA	NA	10 U	10 U	NA	10 U
Methylcyclohexane	NE	10 U	NA	NA	NA	10 U	NA	NA
Methylene chloride	5	10 UJ	NA	NA	NA	10 UJ	NA	NA
Styrene	5	10 U	NA	NA	NA	10 U	NA	NA
Tetrachloroethane, 1,1,2,2-	5	10 U	NA	NA	5 U	10 U	NA	5 U
Tetrachloroethene	5	10 U	NA	NA	NA	10 U	NA	NA
Trans-1,2-Dichloroethene	5	10 U	NA	NA	NA	10 U	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	10 U	NA	NA	NA	10 U	NA	NA
Trichlorobenzene, 1,2,4-	5	10 U	NA	NA	NA	10 U	NA	NA
Trichloroethane, 1,1,1-	5	10 U	NA	NA	5 U	10 U	NA	5 U
Trichloroethane, 1,1,2-	1	10 U	NA	NA	NA	10 U	NA	NA
Trichloroethene	5	10 U	NA	NA	5 U	10 U	NA	5 U
Trichlorofluoromethane	5	10 U	NA	NA	NA	10 U	NA	NA
Vinyl chloride	2	10 U	NA	NA	NA	10 U	NA	NA

Table 5
Groundwater Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-01-03 12/9/2003	MW-01-05 11/16/2005	Duplicate of: MW-01-05 11/16/2005	MW-01-08 12/16/2008	MW-02-03 12/9/2003	MW-02-05 11/17/2005	MW-02-08 12/16/2008
Non-carcinogenic PAHs (ug/l)								
Acenaphthene	20*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Acenaphthylene	NE	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Anthracene	50*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Benzo[g,h,i]perylene	NE	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Fluoranthene	50*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Fluorene	50*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Methylnaphthalene, 2-	NE	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Naphthalene	10*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Phenanthrene	50*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Pyrene	50*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/l)								
Benz[a]anthracene	0.002*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Benzo[a]pyrene	ND	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Benzo[b]fluoranthene	0.002*	10 UJ	11 U	10 U	4 U	10 U	10 U	4 U
Benzo[k]fluoranthene	0.002*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Chrysene	0.002*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Dibenz[a,h]anthracene	NE	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	11 U	10 U	4 U	10 U	10 U	4 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)								
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Other SVOCs (ug/l)								
Acetophenone	NE	10 U	NA	NA	NA	10 U	NA	NA
Atrazine	7.5	10 U	NA	NA	NA	10 UJ	NA	NA
Benzaldehyde	NE	10 U	NA	NA	NA	10 U	NA	NA
Benzyl alcohol	NE	NA	NA	NA	NA	NA	NA	NA
Biphenyl,1,1-	5	10 U	NA	NA	NA	10 U	NA	NA
Bis(2-chloroethoxy)methane	5	10 U	NA	NA	NA	10 U	NA	NA
Bis(2-chloroethyl)ether	1	10 U	NA	NA	NA	10 U	NA	NA
Bis(2-ethylhexyl)phthalate	5	10 U	NA	NA	NA	10 U	NA	NA
Bis(chloroisopropyl)ether	5	10 U	NA	NA	NA	10 U	NA	NA
Bromophenyl phenyl ether, 4-	NE	10 U	NA	NA	NA	10 U	NA	NA
Butyl benzyl phthalate	50*	10 U	NA	NA	NA	10 U	NA	NA
Caprolactam	NE	10 U	NA	NA	NA	10 U	NA	NA
Carbazole	NE	10 U	NA	NA	NA	10 U	NA	NA
Chloro-3-methylphenol, 4-	NE	10 U	NA	NA	NA	10 U	NA	NA
Chloroaniline, 4-	5	10 U	NA	NA	NA	10 U	NA	NA
Chloronaphthalene, 2-	10*	10 U	NA	NA	NA	10 U	NA	NA
Chlorophenol, 2-	NE	10 UJ	NA	NA	NA	10 UJ	NA	NA
Chlorophenyl phenyl ether, 4-	NE	10 U	NA	NA	NA	10 U	NA	NA
Dibenzofuran	NE	10 U	NA	NA	NA	10 U	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	10 U	NA	NA	NA	10 U	NA	NA
Dichlorophenol, 2,4-	5	10 U	NA	NA	NA	10 U	NA	NA
Diethyl phthalate	50*	10 U	NA	NA	NA	10 U	NA	NA
Dimethyl phthalate	50*	10 U	NA	NA	NA	10 U	NA	NA
Dimethylphenol, 2,4-	50*	10 UJ	NA	NA	NA	10 U	NA	NA
Di-n-butyl phthalate	50	10 U	NA	NA	NA	10 U	NA	NA

Table 5
Groundwater Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-01-03 12/9/2003	MW-01-05 11/16/2005	Duplicate of: MW-01-05 11/16/2005	MW-01-08 12/16/2008	MW-02-03 12/9/2003	MW-02-05 11/17/2005	MW-02-08 12/16/2008
Dinitro-2-methylphenol, 4,6-	NE	25 U	NA	NA	NA	24 U	NA	NA
Dinitrophenol, 2,4-	10*	25 UJ	NA	NA	NA	24 UJ	NA	NA
Dinitrotoluene, 2,4-	5	10 U	NA	NA	NA	10 U	NA	NA
Dinitrotoluene, 2,6-	5	10 U	NA	NA	NA	10 U	NA	NA
Di-n-octyl phthalate	50*	10 UJ	NA	NA	NA	10 U	NA	NA
Hexachlorobenzene	0.04	10 U	NA	NA	NA	10 U	NA	NA
Hexachlorobutadiene	0.5	10 UJ	NA	NA	NA	10 U	NA	NA
Hexachlorocyclopentadiene	5	24 UJ	NA	NA	NA	23 U	NA	NA
Hexachloroethane	5	10 U	NA	NA	NA	10 U	NA	NA
Isophorone	50*	10 U	NA	NA	NA	10 U	NA	NA
Methylphenol, 4-	1	10 U	NA	NA	NA	10 U	NA	NA
Methylphenol, 2-	1	10 U	NA	NA	NA	10 U	NA	NA
Nitroaniline, 2-	5	25 U	NA	NA	NA	24 U	NA	NA
Nitroaniline, 3-	5	25 U	NA	NA	NA	24 U	NA	NA
Nitroaniline, 4-	5	25 U	NA	NA	NA	24 U	NA	NA
Nitrobenzene	0.4	10 U	NA	NA	NA	10 U	NA	NA
Nitrophenol, 2-	NE	10 U	NA	NA	NA	10 U	NA	NA
Nitrophenol, 4-	NE	25 UJ	NA	NA	NA	24 UJ	NA	NA
N-Nitrosodi-n-propylamine	NE	10 U	NA	NA	NA	10 U	NA	NA
N-Nitrosodiphenylamine	50*	10 U	NA	NA	NA	10 U	NA	NA
Pentachlorophenol	1	25 UJ	NA	NA	NA	24 U	NA	NA
Phenol	1	10 UJ	NA	NA	NA	10 UJ	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	10 U	NA	NA	NA	10 U	NA	NA
Trichlorophenol, 2,4,6-	NE	10 U	NA	NA	NA	10 U	NA	NA
Metals (ug/l)								
Aluminum	NE	55.6 U	500 U	500 U	NA	291 U	500 U	NA
Antimony	3	3.9 U	20 U	20 U	NA	3.9 U	20 U	NA
Arsenic	25	3.4 UJ	40 U	40 U	NA	3.4 UJ	40 U	NA
Barium	1000	55.6	35.2 J	35.9 J	NA	46.0	50.1 J	NA
Beryllium	3*	0.10 U	5 U	5 U	NA	0.10 U	5 U	NA
Cadmium	5	0.20 U	10 U	10 U	NA	0.20 U	10 U	NA
Calcium	NE	129000	118000	120000	NA	114000	108000	NA
Chromium	50	0.60 U	10 U	10 U	NA	0.77 U	10 U	NA
Cobalt	NE	0.70 U	2.6 J	10 U	NA	0.71 U	10 U	NA
Copper	200	0.80 U	10 U	10 U	NA	1.5 U	10 U	NA
Iron	300	71.0 UJ	200 U	200 U	NA	413 J	200 U	NA
Lead	25	1.9 U	10 U	10 U	NA	1.9 U	10 U	NA
Magnesium	35000*	12500	11200	11400	NA	11800	10800	NA
Manganese	300	76.2	15 U	15 U	NA	37.6	15 U	NA
Mercury	0.7	0.037 UJ	NA	NA	NA	0.260 UJ	NA	NA
Nickel	100	0.90 U	10 U	10 U	NA	0.90 U	10 U	NA
Potassium	NE	2830 J	2770 J	2770 J	NA	3250 J	4610 J	NA
Selenium	10	4.1 U	30 U	30 U	NA	4.1 U	30 U	NA
Silver	50	0.60 U	1.2 J	6 U	NA	0.60 U	6 U	NA
Sodium	20000	136000	94600 J	96700 J	NA	61300	45600 J	NA
Thallium	0.5*	4.0 U	40 U	40 U	NA	4.0 U	40 U	NA
Vanadium	NE	0.60 U	6 U	6 U	NA	0.83 U	6 U	NA
Zinc	2000*	1.3 U	50 U	50 U	NA	2.6 U	50 U	NA
Total Cyanide (ug/l)								
Cyanide, Total	200	NA	10 U	10 U	NA	NA	10 U	NA

Table 5
Groundwater Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-03-03 12/9/2003	Duplicate of: MW-03-03 12/9/2003	MW-03-05 11/17/2005	MW-03-08 12/16/2008	Duplicate of: MW-03-08 12/16/2008
BTEX (ug/l)						
Benzene	1	10 U	10 U	5 U	5 U	5 U
Toluene	5	10 U	10 U	5 U	5 U	5 U
Ethylbenzene	5	10 U	10 U	5 U	5 U	5 U
Xylene, Total	5	10 U	10 U	5 U	5 U	5 U
Total BTEX	NE	ND	ND	ND	ND	ND
Other VOCs (ug/l)						
Total BTEX, Total VOCs,	50*	10 U	10 U	NA	NA	NA
equivalents are	50*	10 U	10 U	NA	5 U	5 U
Bromoform	50*	10 U	10 U	NA	NA	NA
Bromomethane	5	10 U	10 U	NA	5 UJ	5 UJ
Butanone, 2- (MEK)	50*	10 U	10 U	NA	NA	NA
Carbon disulfide	60*	10 U	10 U	NA	5 U	5 U
Carbon tetrachloride	5	10 U	10 U	NA	NA	NA
Chlorobenzene	5	10 U	10 U	NA	5 U	5 U
Chloroethane	5	10 U	10 U	NA	NA	NA
Chloroform	7	10 U	10 U	NA	5 U	5 U
Chloromethane	5	10 U	10 U	NA	NA	NA
Cyclohexane	NE	10 U	10 U	NA	NA	NA
Dibromo-3-chloropropane, 1,2-	0.04	R	R	NA	NA	NA
Dibromochloromethane	50*	10 U	10 U	NA	5 U	5 U
Dibromoethane, 1,2-	0.0006	10 U	10 U	NA	NA	NA
Dichlorobenzene, 1,2-	3	10 U	10 U	NA	NA	NA
Dichlorobenzene, 1,3-	3	10 U	10 U	NA	NA	NA
Dichlorobenzene, 1,4-	3	10 U	10 U	NA	NA	NA
Dichlorodifluoromethane	5	10 U	10 U	NA	NA	NA
Dichloroethane, 1,1-	5	10 U	10 U	NA	NA	NA
Dichloroethane, 1,2-	0.6	10 U	10 U	NA	5 U	5 U
Dichloroethene, cis-1,2-	5	10 U	10 U	NA	5 U	5 U
Dichloroethene, 1,1-	0.07	10 U	10 U	NA	NA	NA
Dichloropropane, 1,2-	1	10 U	10 U	NA	NA	NA
Dichloropropene, cis-1,3	NE	10 U	10 U	NA	5 U	5 U
Dichloropropene, trans-1,3	NE	10 U	10 U	NA	NA	NA
Hexanone, 2-	50*	10 U	10 U	NA	10 U	10 U
Isopropyl benzene	5	10 U	10 U	NA	NA	NA
Methyl Acetate	NE	10 UJ	10 UJ	NA	NA	NA
Methyl tert-butyl ether	10*	10 U	10 U	NA	NA	NA
Methyl-2-pentanone, 4-	NE	10 U	10 U	NA	10 U	10 U
Methylcyclohexane	NE	10 U	10 U	NA	NA	NA
Methylene chloride	5	10 UJ	10 UJ	NA	NA	NA
Styrene	5	10 U	10 U	NA	NA	NA
Tetrachloroethane, 1,1,2,2-	5	10 U	10 U	NA	5 U	5 U
Tetrachloroethene	5	10 U	10 U	NA	NA	NA
Trans-1,2-Dichloroethene	5	10 U	10 U	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	10 U	10 U	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	10 U	10 U	NA	NA	NA
Trichloroethane, 1,1,1-	5	10 U	10 U	NA	5 U	5 U
Trichloroethane, 1,1,2-	1	10 U	10 U	NA	NA	NA
Trichloroethene	5	10 U	10 U	NA	5 U	5 U
Trichlorofluoromethane	5	10 U	10 U	NA	NA	NA
Vinyl chloride	2	10 U	10 U	NA	NA	NA

Table 5
Groundwater Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-03-03 12/9/2003	Duplicate of: MW-03-03 12/9/2003	MW-03-05 11/17/2005	MW-03-08 12/16/2008	Duplicate of: MW-03-08 12/16/2008
Non-carcinogenic PAHs (ug/l)						
Acenaphthene	20*	10 U	10 U	11 U	4 U	4 U
Acenaphthylene	NE	10 U	10 U	11 U	4 U	4 U
Anthracene	50*	10 U	10 U	11 U	4 U	4 U
Benzo[g,h,i]perylene	NE	10 U	10 U	11 U	4 U	4 U
Fluoranthene	50*	10 U	10 U	11 U	4 U	4 U
Fluorene	50*	10 U	10 U	11 U	4 U	4 U
Methylnaphthalene, 2-	NE	10 U	10 U	11 U	4 U	4 U
Naphthalene	10*	10 U	10 U	11 U	4 U	4 U
Phenanthrene	50*	10 U	10 U	11 U	4 U	4 U
Pyrene	50*	10 U	10 U	11 U	4 U	4 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/l)						
Benz[a]anthracene	0.002*	10 U	10 U	11 U	4 U	4 U
Benzo[a]pyrene	ND	10 U	10 U	11 U	4 U	4 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	11 U	4 U	4 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	11 U	4 U	4 U
Chrysene	0.002*	10 U	10 U	11 U	4 U	4 U
Dibenz[a,h]anthracene	NE	10 U	10 U	11 U	4 U	4 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	11 U	4 U	4 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND
Total PAHs (ug/l)						
Total PAHs	NE	ND	ND	ND	ND	ND
Other SVOCs (ug/l)						
Acetophenone	NE	10 U	10 U	NA	NA	NA
Atrazine	7.5	10 UJ	10 UJ	NA	NA	NA
Benzaldehyde	NE	10 U	10 U	NA	NA	NA
Benzyl alcohol	NE	NA	NA	NA	NA	NA
Biphenyl,1,1-	5	10 U	10 U	NA	NA	NA
Bis(2-chloroethoxy)methane	5	10 U	10 U	NA	NA	NA
Bis(2-chloroethyl)ether	1	10 U	10 U	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	10 U	10 U	NA	NA	NA
Bis(chloroisopropyl)ether	5	10 U	10 U	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	10 U	10 U	NA	NA	NA
Butyl benzyl phthalate	50*	10 U	10 U	NA	NA	NA
Caprolactam	NE	10 U	10 U	NA	NA	NA
Carbazole	NE	10 U	10 U	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	10 U	10 U	NA	NA	NA
Chloroaniline, 4-	5	10 U	10 U	NA	NA	NA
Chloronaphthalene, 2-	10*	10 U	10 U	NA	NA	NA
Chlorophenol, 2-	NE	10 UJ	10 UJ	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	10 U	10 U	NA	NA	NA
Dibenzofuran	NE	10 U	10 U	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	10 U	10 U	NA	NA	NA
Dichlorophenol, 2,4-	5	10 U	10 U	NA	NA	NA
Diethyl phthalate	50*	10 U	10 U	NA	NA	NA
Dimethyl phthalate	50*	10 U	10 U	NA	NA	NA
Dimethylphenol, 2,4-	50*	10 U	10 U	NA	NA	NA
Di-n-butyl phthalate	50	10 U	10 U	NA	NA	NA

Table 5
Groundwater Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-03-03 12/9/2003	Duplicate of: MW-03-03 12/9/2003	MW-03-05 11/17/2005	MW-03-08 12/16/2008	Duplicate of: MW-03-08 12/16/2008
Dinitro-2-methylphenol, 4,6-	NE	24 U	24 U	NA	NA	NA
Dinitrophenol, 2,4-	10*	24 UJ	24 UJ	NA	NA	NA
Dinitrotoluene, 2,4-	5	10 U	10 U	NA	NA	NA
Dinitrotoluene, 2,6-	5	10 U	10 U	NA	NA	NA
Di-n-octyl phthalate	50*	10 U	10 U	NA	NA	NA
Hexachlorobenzene	0.04	10 U	10 U	NA	NA	NA
Hexachlorobutadiene	0.5	10 U	10 U	NA	NA	NA
Hexachlorocyclopentadiene	5	23 U	22 U	NA	NA	NA
Hexachloroethane	5	10 U	10 U	NA	NA	NA
Isophorone	50*	10 U	10 U	NA	NA	NA
Methylphenol, 4-	1	10 U	10 U	NA	NA	NA
Methylphenol, 2-	1	10 U	10 U	NA	NA	NA
Nitroaniline, 2-	5	24 U	24 U	NA	NA	NA
Nitroaniline, 3-	5	24 U	24 U	NA	NA	NA
Nitroaniline, 4-	5	24 U	24 U	NA	NA	NA
Nitrobenzene	0.4	10 U	10 U	NA	NA	NA
Nitrophenol, 2-	NE	10 U	10 U	NA	NA	NA
Nitrophenol, 4-	NE	24 UJ	24 UJ	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	10 U	10 U	NA	NA	NA
N-Nitrosodiphenylamine	50*	10 U	10 U	NA	NA	NA
Pentachlorophenol	1	24 U	24 U	NA	NA	NA
Phenol	1	10 UJ	10 UJ	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	10 U	10 U	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	10 U	10 U	NA	NA	NA
Metals (ug/l)						
Aluminum	NE	23.0 U	42.0 U	500 U	NA	NA
Antimony	3	3.9 U	3.9 U	20 U	NA	NA
Arsenic	25	3.4 UJ	3.4 UJ	40 U	NA	NA
Barium	1000	42.9	44.8	39.5 J	NA	NA
Beryllium	3*	0.10 U	0.10 U	5 U	NA	NA
Cadmium	5	0.20 U	0.20 U	10 U	NA	NA
Calcium	NE	105000	106000	112000	NA	NA
Chromium	50	0.62 U	0.60 U	10 U	NA	NA
Cobalt	NE	0.70 U	0.70 U	10 U	NA	NA
Copper	200	0.80 U	0.80 U	6.7 J	NA	NA
Iron	300	24.3 UJ	52.0 UJ	200 U	NA	NA
Lead	25	1.9 U	1.9 U	10 U	NA	NA
Magnesium	35000*	13400	13400	13600	NA	NA
Manganese	300	15.5	16.2	33.8	NA	NA
Mercury	0.7	0.037 UJ	0.037 UJ	NA	NA	NA
Nickel	100	0.90 U	0.90 U	10 U	NA	NA
Potassium	NE	4620 J	4650 J	3800 J	NA	NA
Selenium	10	5.0 U	4.1 U	30 U	NA	NA
Silver	50	0.60 U	0.60 U	6 U	NA	NA
Sodium	20000	80200	79900	75500 J	NA	NA
Thallium	0.5*	4.0 U	4.0 U	40 U	NA	NA
Vanadium	NE	0.63 U	0.60 U	6 U	NA	NA
Zinc	2000*	1.3 U	1.4 U	50 U	NA	NA
Total Cyanide (ug/l)						
Cyanide, Total	200	NA	NA	10 U	NA	NA

Table 5
Groundwater Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-A-05 (off-site) 11/17/2005	MW-B-05 (off-site) 11/17/2005	MW-C-05 (off-site) 11/17/2005	MW-C-08 (off-site) 12/16/2008
BTEX (ug/l)					
Benzene	1	NA	NA	NA	5 U
Toluene	5	NA	NA	NA	5 U
Ethylbenzene	5	NA	NA	NA	5 U
Xylene, Total	5	NA	NA	NA	5 U
Total BTEX	NE	NA	NA	NA	ND
Other VOCs (ug/l)					
Total BTEX, Total VOCs,	50*	NA	NA	NA	NA
equivalents are	50*	NA	NA	NA	5 U
Bromoform	50*	NA	NA	NA	NA
Bromomethane	5	NA	NA	NA	5 UJ
Butanone, 2- (MEK)	50*	NA	NA	NA	NA
Carbon disulfide	60*	NA	NA	NA	5 U
Carbon tetrachloride	5	NA	NA	NA	NA
Chlorobenzene	5	NA	NA	NA	5 U
Chloroethane	5	NA	NA	NA	NA
Chloroform	7	NA	NA	NA	5 U
Chloromethane	5	NA	NA	NA	NA
Cyclohexane	NE	NA	NA	NA	NA
Dibromo-3-chloropropane, 1,2-	0.04	NA	NA	NA	NA
Dibromochloromethane	50*	NA	NA	NA	5 U
Dibromoethane, 1,2-	0.0006	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA
Dichlorodifluoromethane	5	NA	NA	NA	NA
Dichloroethane, 1,1-	5	NA	NA	NA	NA
Dichloroethane, 1,2-	0.6	NA	NA	NA	5 U
Dichloroethene, cis-1,2-	5	NA	NA	NA	5 U
Dichloroethene, 1,1-	0.07	NA	NA	NA	NA
Dichloropropane, 1,2-	1	NA	NA	NA	NA
Dichloropropene, cis-1,3	NE	NA	NA	NA	5 U
Dichloropropene, trans-1,3	NE	NA	NA	NA	NA
Hexanone, 2-	50*	NA	NA	NA	10 U
Isopropyl benzene	5	NA	NA	NA	NA
Methyl Acetate	NE	NA	NA	NA	NA
Methyl tert-butyl ether	10*	NA	NA	NA	NA
Methyl-2-pentanone, 4-	NE	NA	NA	NA	10 U
Methylcyclohexane	NE	NA	NA	NA	NA
Methylene chloride	5	NA	NA	NA	NA
Styrene	5	NA	NA	NA	NA
Tetrachloroethane, 1,1,2,2-	5	NA	NA	NA	5 U
Tetrachloroethene	5	NA	NA	NA	NA
Trans-1,2-Dichloroethene	5	NA	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA
Trichloroethane, 1,1,1-	5	NA	NA	NA	5 U
Trichloroethane, 1,1,2-	1	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	5 U
Trichlorofluoromethane	5	NA	NA	NA	NA
Vinyl chloride	2	NA	NA	NA	NA

Table 5
Groundwater Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-A-05 (off-site) 11/17/2005	MW-B-05 (off-site) 11/17/2005	MW-C-05 (off-site) 11/17/2005	MW-C-08 (off-site) 12/16/2008
Non-carcinogenic PAHs (ug/l)					
Acenaphthene	20*	11 U	11 U	11 U	0.44 J
Acenaphthylene	NE	11 U	11 U	11 U	2.3 J
Anthracene	50*	11 U	11 U	11 U	4 U
Benzo[g,h,i]perylene	NE	11 U	11 U	11 U	4 U
Fluoranthene	50*	11 U	11 U	11 U	4 U
Fluorene	50*	11 U	11 U	11 U	0.72 J
Methylnaphthalene, 2-	NE	11 U	11 U	11 U	4 U
Naphthalene	10*	11 U	11 U	11 U	9.4
Phenanthrene	50*	11 U	11 U	11 U	4 U
Pyrene	50*	11 U	11 U	11 U	4 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	12.86
Carcinogenic PAHs (ug/l)					
Benz[a]anthracene	0.002*	11 U	11 U	11 U	4 U
Benzo[a]pyrene	ND	11 U	11 U	11 U	4 U
Benzo[b]fluoranthene	0.002*	11 U	11 U	11 U	4 U
Benzo[k]fluoranthene	0.002*	11 U	11 U	11 U	4 U
Chrysene	0.002*	11 U	11 U	11 U	4 U
Dibenz[a,h]anthracene	NE	11 U	11 U	11 U	4 U
Indeno[1,2,3-cd]pyrene	0.002*	11 U	11 U	11 U	4 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
Total PAHs (ug/l)					
Total PAHs	NE	ND	ND	ND	12.86
Other SVOCs (ug/l)					
Acetophenone	NE	NA	NA	NA	NA
Atrazine	7.5	NA	NA	NA	NA
Benzaldehyde	NE	NA	NA	NA	NA
Benzyl alcohol	NE	11 U	11 U	11 U	NA
Biphenyl,1,1-	5	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	11 U	11 U	11 U	NA
Bis(2-chloroethyl)ether	1	11 U	11 U	11 U	NA
Bis(2-ethylhexyl)phthalate	5	11 U	11 U	11 U	NA
Bis(chloroisopropyl)ether	5	11 U	11 U	11 U	NA
Bromophenyl phenyl ether, 4-	NE	11 U	11 U	11 U	NA
Butyl benzyl phthalate	50*	11 U	11 U	11 U	NA
Caprolactam	NE	NA	NA	NA	NA
Carbazole	NE	11 U	11 U	11 U	NA
Chloro-3-methylphenol, 4-	NE	11 U	11 U	11 U	NA
Chloroaniline, 4-	5	11 U	11 U	11 U	NA
Chloronaphthalene, 2-	10*	11 U	11 U	11 U	NA
Chlorophenol, 2-	NE	11 U	11 U	11 U	NA
Chlorophenyl phenyl ether, 4-	NE	11 U	11 U	11 U	NA
Dibenzofuran	NE	11 U	11 U	11 U	NA
Dichlorobenzene, 1,2-	3	11 U	11 U	11 U	NA
Dichlorobenzene, 1,3-	3	11 U	11 U	11 U	NA
Dichlorobenzene, 1,4-	3	11 U	11 U	11 U	NA
Dichlorobenzidine, 3,3-	5	22 U	22 U	22 U	NA
Dichlorophenol, 2,4-	5	11 U	11 U	11 U	NA
Diethyl phthalate	50*	11 U	11 U	11 U	NA
Dimethyl phthalate	50*	11 U	11 U	11 U	NA
Dimethylphenol, 2,4-	50*	11 U	11 U	11 U	NA
Di-n-butyl phthalate	50	11 U	11 U	11 U	NA

Table 5
Groundwater Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYS AWQS	MW-A-05 (off-site) 11/17/2005	MW-B-05 (off-site) 11/17/2005	MW-C-05 (off-site) 11/17/2005	MW-C-08 (off-site) 12/16/2008
Dinitro-2-methylphenol, 4,6-	NE	54 U	54 U	54 U	NA
Dinitrophenol, 2,4-	10*	54 U	54 U	54 U	NA
Dinitrotoluene, 2,4-	5	11 U	11 U	11 U	NA
Dinitrotoluene, 2,6-	5	11 U	11 U	11 U	NA
Di-n-octyl phthalate	50*	11 U	11 U	11 U	NA
Hexachlorobenzene	0.04	11 U	11 U	11 U	NA
Hexachlorobutadiene	0.5	11 U	11 U	11 U	NA
Hexachlorocyclopentadiene	5	11 U	11 U	11 U	NA
Hexachloroethane	5	11 U	11 U	11 U	NA
Isophorone	50*	11 U	11 U	11 U	NA
Methylphenol, 4-	1	11 U	11 U	11 U	NA
Methylphenol, 2-	1	11 U	11 U	11 U	NA
Nitroaniline, 2-	5	54 U	54 U	54 U	NA
Nitroaniline, 3-	5	54 U	54 U	54 U	NA
Nitroaniline, 4-	5	22 U	22 U	22 U	NA
Nitrobenzene	0.4	11 U	11 U	11 U	NA
Nitrophenol, 2-	NE	11 U	11 U	11 U	NA
Nitrophenol, 4-	NE	54 U	54 U	54 U	NA
N-Nitrosodi-n-propylamine	NE	11 U	11 U	11 U	NA
N-Nitrosodiphenylamine	50*	11 U	11 U	11 U	NA
Pentachlorophenol	1	54 U	54 U	54 U	NA
Phenol	1	11 U	11 U	11 U	NA
Trichlorobenzene, 1,2,4-	5	11 U	11 U	11 U	NA
Trichlorophenol, 2,4,5-	NE	54 U	54 U	54 U	NA
Trichlorophenol, 2,4,6-	NE	11 U	11 U	11 U	NA
Metals (ug/l)					
Aluminum	NE	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
Total Cyanide (ug/l)					
Cyanide, Total	200	NA	NA	NA	NA

Validated

Notes:

ug/l - micrograms per liter or parts per billion (ppb)
BTEX - benzene, toluene, ethylbenzene, and xylenes
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
SVOCs - semivolatile organic compounds
PCBs - Polychlorinated Biphenyls

Total BTEX, Total VOCs, Total PAHs, Total SVOCs, Total PCBs, Total Pesticides, and Benzo[a]pyrene (BaP) equivalents are calculated using detects only.

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard

NE - not established
NA - not analyzed

ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Shading indicates that the detected result value exceeds the NYS AWQS objective it was compared to

Validation Qualifiers:

J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated
R - rejected

Table 6
Soil Vapor and Ambient Air Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYSDOH Background Indoor Air Concentrations Upper Fence[1]	SV-01-08 12/19/2008	SV-02-08 12/19/2008	SV-03-08 12/19/2008	Duplicate of: SV-03-08 12/19/2008	NYSDOH Background Outdoor Air Concentrations Upper Fence[1]	AA-01-08 12/19/2008
BTEX (ug/m^3)							
Benzene	13	3.5	4.8	2.6 J	1.1 J	4.8	0.61
Toluene	57	25	24	18 J	0.69 J	5.1	0.62
Ethylbenzene	6.4	2.9	2.9	2.3 J	0.87 UJ	1	0.87 U
Xylene, m,p-	11	11	11	8.8 J	0.87 UJ	1	0.87 U
Xylene, o-	7.1	3	3.3	2.6 J	0.87 U	1.2	0.87 U
Total BTEX	NE	45.4	46	34.3	1.79	NE	1.23
Other VOCs (ug/m^3)							
Acetone	115	17 J	25 J	16 J	19 J	30	8.7 J
Allyl chloride	NE	0.63 U	0.63 U	0.63 U	0.63 U	NE	0.63 U
Benzyl chloride	NE	2.1 UJ	2.1 UJ	2.1 UJ	2.1 UJ	NE	2.1 UJ
Bromodichloromethane	NE	1.3 U	1.3 U	1.3 U	1.3 U	NE	1.3 U
Bromoform	NE	2.1 U	2.1 U	2.1 U	2.1 U	NE	2.1 U
Bromomethane	0.5	0.78 U	0.78 U	0.78 U	0.78 U	0.5	0.78 U
Butadiene, 1,3-	NE	0.88 U	0.88 U	0.88 U	0.88 U	NE	0.88 U
Butane	NE	5.2	2.7	1.9	1.8	NE	1
Butanone, 2- (MEK)	16	1.4	4.4	1.6	1.7	5.3	1.1
Carbon disulfide	NE	1.1	0.27	0.23	0.2	NE	1.6 U
Carbon tetrachloride	1.3	1.3 U	0.35	0.24 J	0.25	1.2	0.75
Chlorobenzene	0.4	0.92 U	0.92 U	0.92 U	0.92 U	0.25	0.92 U
Chloroethane	0.4	0.53 U	0.53 U	0.53 U	0.53 U	0.4	0.53 U
Chloroform	1.2	0.79	3.5	0.98 U	0.98 U	0.5	0.26
Chloromethane	4.2	0.54	1 U	0.38	1 U	4.3	1.6
Chlorotoluene, 2-	NE	2.1 U	2.1 U	2.1 U	2.1 U	NE	2.1 U
Cryofluorane	0.4	1.4 U	1.4 U	1.4 U	1.4 U	0.5	1.4 U
Cyclohexane	6.3	3.1	1.3	1.7	0.85	0.9	1.7 U
Decane, n-	15	0.58	0.33 J	0.39 J	5.8 U	4.7	5.8 U
Dibromochloromethane	NE	1.7 U	1.7 U	1.7 U	1.7 U	NE	1.7 U
Dibromoethane, 1,2-	0.4	1.5 U	1.5 U	1.5 U	1.5 U	0.4	1.5 U
Dichlorobenzene, 1,2-	0.5	1.2 U	1.2 U	1.2 U	1.2 U	0.4	1.2 U
Dichlorobenzene, 1,3-	0.5	1.2 U	1.2 U	1.2 U	1.2 U	0.4	1.2 U
Dichlorobenzene, 1,4-	1.2	1.2 U	1.2 U	1.2 U	1.2 U	0.5	1.2 U
Dichlorodifluoromethane	10	2.1	2.1	2	1.9	10	1.9
Dichloroethane, 1,1-	0.4	0.81 U	0.81 U	0.81 U	0.81 U	0.25	0.81 U
Dichloroethane, 1,2-	0.4	0.81 U	0.81 U	0.81 U	0.81 U	0.4	0.81 U

Table 6
Soil Vapor and Ambient Air Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYSDOH Background Indoor Air Concentrations Upper Fence[1]	SV-01-08 12/19/2008	SV-02-08 12/19/2008	SV-03-08 12/19/2008	Duplicate of: SV-03-08 12/19/2008	NYSDOH Background Outdoor Air Concentrations Upper Fence[1]	AA-01-08 12/19/2008
Dichloroethene, cis-1,2-	0.4	0.79 U	0.79 U	0.79 U	0.79 U	0.4	0.79 U
Dichloroethene, 1,1-	0.4	0.79 U	0.79 U	0.79 U	0.79 U	0.4	0.79 U
Dichloropropane, 1,2-	0.4	0.92 U	0.92 U	0.92 U	0.92 U	0.4	0.92 U
Dichloropropene, cis-1,3	0.4	0.91 U	0.91 U	0.91 U	0.91 U	0.4	0.91 U
Dichloropropene, trans-1,3	0.25	0.91 U	0.91 U	0.91 U	0.91 U	0.25	0.91 U
Dioxane, 1,4-	NE	1.8 U	1.8 U	1.8 U	1.8 U	NE	1.8 U
Dodecane, n-	9.2	7 UJ	7 UJ	7 UJ	7 UJ	4.5	7 UJ
Ethyltoluene, p-	NE	1	0.59	0.88	2 U	NE	2 U
Heptane, n-	18	2.1	2.3	1.6	2 U	2.2	2 U
Hexachlorobutadiene	0.5	11 U	11 U	11 U	11 U	0.5	11 U
Hexane, n-	14	5.1	3.6	2.8	1.3	2	0.34
Hexanone, 2-	NE	2 UJ	0.54 J	2 UJ	2 UJ	NE	2 UJ
Indan	NE	0.97 UJ	0.97 UJ	0.97 UJ	0.97 UJ	NE	0.97 UJ
Indene	NE	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	NE	1.9 UJ
Methyl tert-butyl ether	14	3.6 U	3.6 U	3.6 U	3.6 U	1.9	3.6 U
Methyl-2-pentanone, 4-	1.9	0.33	0.34 J	0.2 J	2 U	0.5	2 U
Methylene chloride	16	4.5	1.7 U	1.7 U	1.7 U	1.6	1.7 U
Methylnaphthalene, 1-	NE	15 UJ	15 UJ	15 UJ	15 UJ	NE	15 UJ
Methylnaphthalene, 2-	NE	15 UJ	15 UJ	15 UJ	15 UJ	NE	15 UJ
Naphthalene	12	2.6 U	2.6 U	2.6 U	2.6 U	10	2.6 U
Nonane	7.9	0.42	0.55	0.28	2.6 U	0.7	2.6 U
Octane, n-	5.2	0.65	0.69	0.45	1.9 U	1.5	1.9 U
Pentane	NE	44	4.8	3	2.6	NE	0.59
Propanol, 2-	NE	3	1.9	1.5	1.1	NE	0.68
Styrene	1.4	0.85 U	0.85 U	0.85 U	0.85 U	0.5	0.85 U
t-Butyl alcohol	NE	0.76	1.1	0.93	0.89	NE	0.12
Tetrachloroethane, 1,1,2,2-	0.4	1.4 U	1.4 U	1.4 U	1.4 U	0.4	1.4 U
Tetrachloroethene	2.5	1.4 U	0.61	46 J	1.4 UJ	0.7	1.4 U
Thiophene	NE	0.69 UJ	0.69 UJ	0.69 UJ	0.69 UJ	NE	0.69 UJ
Trans-1,2-Dichloroethene	NE	0.79 U	0.79 U	0.79 U	0.79 U	NE	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	2.5	0.43	0.44	0.4	0.43	2.5	0.61
Trichlorobenzene, 1,2,4-	0.5	7.4 U	7.4 U	7.4 U	7.4 U	0.4	7.4 U
Trichloroethane, 1,1,1-	2.5	1.1 U	1.1 U	1.1 U	1.1 U	0.6	1.1 U
Trichloroethane, 1,1,2-	0.4	1.1 U	1.1 U	1.1 U	1.1 U	0.3	1.1 U
Trichloroethene	0.5	1.1 U	1.1 U	2.3 J	1.2 J	0.4	1.1 U

Table 6
Soil Vapor and Ambient Air Analytical Results
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Sample Name: / Sample Date:	NYSDOH Background Indoor Air Concentrations Upper Fence[1]	SV-01-08 12/19/2008	SV-02-08 12/19/2008	SV-03-08 12/19/2008	Duplicate of: SV-03-08 12/19/2008	NYSDOH Background Outdoor Air Concentrations Upper Fence[1]	AA-01-08 12/19/2008
Trichlorofluoromethane	12	1.2	2.3	0.94	0.93	5.1	1.1
Trimethylbenzene, 1,2,3-	2.5	0.98 UJ	0.98 UJ	0.98 UJ	0.98 UJ	0.5	0.98 UJ
Trimethylbenzene, 1,2,4-	9.8	1.6	2.3	2.1 J	0.98 UJ	1.9	0.98 U
Trimethylbenzene, 1,3,5-	3.9	0.75	0.84	0.76	0.98 U	0.7	0.98 U
Trimethylpentane, 2,2,4-	5	5.3	4.1	3.7 J	0.32 J	0.7	2.3 U
Undecane, n-	12	6.4 U	6.4 U	6.4 U	6.4 U	1.5	6.4 U
Vinyl bromide	NE	0.87 U	0.87 U	0.87 U	0.87 U	NE	0.87 U
Vinyl chloride	0.4	0.51 U	0.51 U	0.51 U	0.51 U	0.4	0.51 U

Notes:

ug/m^3 - micrograms per cubic meter
BTEX - benzene, toluene, ethylbenzene, and xylenes
VOCs - volatile organic compounds

[1] Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003. Background values for naphthalene are from the NYSDOH 1997

NE - not established

Shading indicates that the detected result value exceeds the NYSDOH objective it was compared to.

Validation Qualifiers:

J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 7
Soil Boring Physical and Chemical Impacts Summary
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Location	Boring ID (Depth in ft)	Physical Observations	Unrestricted Use SCO Exceedances?	Restricted Restricted-Commercial Use SCO Exceedances?
Inside the Gas Holder Foundation Wall	SB-01-03 (0-2)	none	No	No
	SB-01-03 (8-10)	tar present	Yes	Yes
	SB-01-03 (14-15.25)	tar present	Yes	Yes
	SB-02-03	tar present	NAS	NAS
	GP-07-04	tar present	NAS	NAS
	GP-08-04	tar present	NAS	NAS
	GP-13-04	tar present	NAS	NAS
	GP-14-04	naphthalene odor	NAS	NAS
	GP-19-04	tar present	NAS	NAS
	GP-22-05 (6.5-7.5)	sheen/naphthalene odor	Yes	Yes
	GP-23-05 (10-11)	naphthalene odor	Yes	Yes
	GP-24-05 (11-12)	sheen/naphthalene odor	Yes	Yes
	SB-07-08 (Comp) see Table 3	tar present	Yes	Yes
Outside the Gas Holder Foundation Wall	SB-03-03 (10-12)	none	No	No
	SB-03-03 (12-14)	none	NAS	NAS
	SB-03-03 (24-26)	naphthalene odor	No	No
	SB-03-03 (28-30)	none	No	No
	GP-01-04	naphthalene odor	NAS	NAS
	GP-02-04	none	NAS	NAS
	GP-03-04	naphthalene odor	NAS	NAS
	GP-04-04	none	NAS	NAS
	GP-05-04 (15-16)	naphthalene odor	Yes	Yes
	GP-06-04	tar present	NAS	NAS
	GP-09-04	tar present	NAS	NAS
	GP-10-04	none	NAS	NAS
	GP-11-04	none	NAS	NAS
	GP-12-04	none	NAS	NAS
	GP-16-04	none	NAS	NAS
	GP-17-04	none	NAS	NAS
	GP-18-04	none	NAS	NAS
	GP-25-05 (21-22.5)	none	No	No
	GP-26-05 (17-18)	none	No	No
	SB-06-08 (8-10)	none	No	No
	SB-06-08 (20-22)	none	No	No
	SB-08-08 (7-9)	none	Yes	Yes
	SB-08-08 (20-22)	none	No	No
	SB-09-08 (26-27)	none	No	No
	SB-09-08 (29-30)	none	No	No
	SB-10-08 (23-25)	none	No	No
	SB-11-08 (7-9)	none	Yes	Yes
	SB-11-08 (22-24)	none	No	No
	SB-12-08 (7-9)	none	Yes	Yes
	SB-12-08 (18-20)	none	Yes	Yes

Table 7
Soil Boring Physical and Chemical Impacts Summary
Saratoga (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

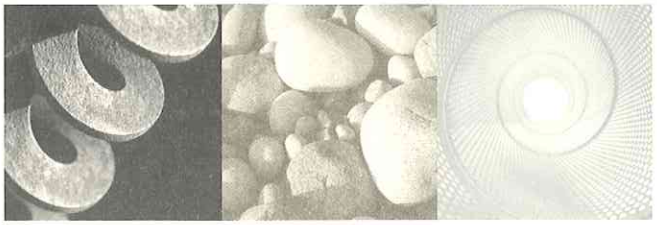
Location	Boring ID (Depth in ft)	Physical Observations	Unrestricted Use SCO Exceedances?	Restricted Restricted-Commercial Use SCO Exceedances?
North of Gas Holder	GP-15-04 (13-15)	none	No	No
	GP-15-04 (24-25)	none	No	No
In Vicinity of Former Gas House	GP-20-04 (12-13)	fuel oil & naphthalene odor	Yes	Yes
	GP-20-04 (24-25)	none	No	No
	GP-21-05 (14-15)	fuel oil & naphthalene odor	Yes	Yes
	GP-27-08 (24-25)	none	No	No
	GP-27-08 (28-30)	none	No	No
	GP-28-08 (5-10)	petroleum-like odor	Yes	Yes
	GP-28-08 (28-30)	none	No	No
	GP-29-08 (5-10)	petroleum-like odor	Yes	Yes
	GP-29-08 (34-35)	none	No	No
	GP-30-08 (8-10)	none	No	No
	GP-31-08 (8-10)	none	Yes	Yes
	GP-32-08 (11-13)	none	No	No
	GP-33-08 (11-13)	none	No	No
Northern Property Edge	SB-04-03 (12-14)	none	No	No
	SB-04-03 (14-16)	none	NAS	NAS
NE Property Edge	SB-05-03 (13-15)	none	NAS	NAS
	SB-05-03 (15-17)	none	No	No

Notes:

NAS - No Analytical Sample Collected

Appendix L

Community Air Monitoring Plan



GEI Consultants

Geotechnical
Environmental and
Water Resources
Engineering

Community Air Monitoring Program Work Plan

Saratoga Springs (Lake Avenue) Non-Owned Former Manufactured Gas Plant Site

Saratoga Springs, New York
AOC Index No. A2-0552-0606
Site No. V00475

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Executive Summary

This Community Air Monitoring Program (CAMP) Work Plan has been developed to provide specific procedures for measuring, documenting, and responding to potential airborne contaminants during the remedial action at the Saratoga Springs (Lake Avenue) Non-Owned Former Manugtfactured Gas Plant site. The procedures in this CAMP are focused on the monitoring of airborne contaminants at the site perimeter and will complement the work zone monitoring conducted to protect site workers as described in the site Health and Safety Plan (HASP). This CAMP Work Plan is based on and builds on the CAMP guidelines established by the New York State Department of Health (NYSDOH) in the New York State Department of Environmental Conservation (NYSDEC) DER-10 Draft Technical Guidance for Site Investigation and Remediation (DER-10) (December 2002). Site activities related to the proposed project will begin September 2009. The CAMP is designed to provide monitoring procedures, Alert Limits, Action Limits, and contingency measures if Action Limits are approached. An Alert Limit is a contaminant concentration or odor intensity that triggers contingent measures. An Alert Limit does not suggest the existence of a health hazard, but serves instead as a screening tool to trigger contingent measures if necessary, to assist in minimizing offsite transport of contaminants and odors during remedial activities. An Action Limit is a contaminant concentration or odor intensity that triggers work stoppage.

During times of ground intrusive activities, fenceline perimeter air monitoring will be conducted using a combination of real-time (continuous and almost instantaneous) air monitoring at fixed locations (24 hours a day/7 days a week) and walk-around supplemental monitoring using hand-held instruments on an as-needed basis. Contaminants commonly found at former MGP sites will be monitored, including volatile organic compounds (VOCs) and dust. Relative odor intensity will also be monitored using an American Society for Testing Materials (ASTM) method. The Contingency Plan defines Alert Levels, Action Levels, and specific response activities to be implemented during working hours if an exceedance of an Alert Limit or Action Limit for a measured compound occurs. The response actions, potentially including work stoppage, are intended to prevent or significantly reduce the migration of airborne contaminants from the site. Although hydrogen cyanide has not been detected in the soil or groundwater, there will be a separate contingency plan for monitoring for its presence if cyanide-containing material is encountered during excavation. A representative from the NYSDEC will be present during the critical phases of the remedial work to review monitoring data as it is recorded.

The following plan describes the monitoring to be conducted during significant ground intrusive activities. Significant ground intrusive activities are those excavations on the site where there is reasonable expectation of encountering MGP-impacted materials. Where appropriate, an alternative level of monitoring which is in compliance with NYSDOH CAMP Guidance in DER-10 and equally protective of the community may be employed. Based on specific field activities, a decision will be made as to the appropriate level of monitoring. Specific activities could include pre-trenching and surface clearing activities for the installation of the subsurface barrier in the Bulkhead Area or additional geotechnical or environmental borings deemed necessary during the performance of the remedy. For these activities, monitoring may be performed using equipment and procedures similar to those used at the site during previous investigation activities as described in Section 4 of this document.

1. Introduction

The NYSDOH Generic Community Air Monitoring Program (CAMP), as presented in New York State Department of Environmental Conservation's (NYSDEC) document DER-10 Technical Guidance for Site Investigation and Remediation, requires that real-time monitoring for total volatile organic compound (TVOC) and particulates (i.e., dust) be conducted at the downwind perimeter of each designated work area during ground intrusive activities at contaminated sites. As such, this work plan describes the proposed air monitoring means and methods that will be implemented during the construction activities at the Springs (Lake Avenue) Non-Owned Former Manufactured Gas Plant (MGP) site. A site location map is shown on Figure 1. Proposed construction activities that require ground intrusive activities at the site include the following:

- Excavation of contaminated soil within the former gas holder foundation to approximately 20 feet below ground surface.
- Backfill of the former holder foundation with imported clean fill material and restoration of the surface.

Air monitoring at the site will be conducted in accordance with the NYSDOH CAMP. The purpose of the air-monitoring program is to provide early detection in the field of potential short-term emissions. The early detection of potential emissions and associated contingency measures is intended to expedite any necessary mitigation measures, and to reduce the potential for the community and public to be exposed to hazardous constituents at levels above accepted regulatory limits and guidelines provided in the NYSDOH Generic CAMP. During ground intrusive activities at the site, the CAMP will be conducted using a combination of real-time air monitoring at fixed locations and supplemental walk-around perimeter monitoring using hand-held instruments as appropriate.

The objectives of the CAMP are as follows:

- Provide an early warning system to alert National Grid that concentrations of TVOCs or dust in ambient air are approaching Action Limits due to site activities.
- Provide details for a site contingency plan that is designed to reduce the off-site migration of contaminants/odors if established Action Limits are approached or exceeded.

- Determine whether construction controls are effective in reducing ambient air concentrations to below Action Limits and make appropriate and necessary adjustments.
- Develop a permanent record that includes a database of perimeter air monitoring results and meteorological conditions, equipment maintenance, calibration records, and other pertinent information.

1.1 General Approach

The general approach to meet the objectives of the Plan is two-fold:

1. *Utilize a real-time system to monitor target compounds.* Real-time monitoring data will be used as an early warning system so that the air monitoring contractor can alert National Grid and the construction manager that concentrations of target compounds are approaching Action Limits Under this scenario, National Grid, the construction manager, and the air monitoring contractor can then begin to evaluate and implement appropriate site controls to maintain acceptable ambient air concentrations.

2. *Develop comprehensive data management and analysis procedures.* Data will be generated from a variety of sources, including real-time fixed station analytical monitoring, pre-construction baseline sampling, supplemental hand held equipment, and meteorological monitoring. These data will be reduced, evaluated, verified, and presented to National Grid and the construction manager in a timely manner to facilitate timely decision-making.

2. Sampling and Analytical Procedures

This section of the CAMP presents a detailed description of the air monitoring sampling and analytical procedures, including data management that will be used during the Site ground intrusive activities.

In general, real-time sampling methods will be utilized to determine ambient air concentrations during the project. Real-time continuous monitoring for TVOC and respirable particulate matter (RPM_{10}) will occur at four fixed locations. Meteorological conditions including wind speed and direction, temperature, and relative humidity will be monitored in real time. Supplemental walk-around perimeter monitoring for TVOC, RPM_{10}, and odor intensity will occur along the perimeter of the project site on an as-needed basis.

2.1 Alert Limit and Action Limit

An Alert Limit is a contaminant concentration or odor intensity that when exceeded triggers contingent measures. For example, if odors are detected on site, contingent measures such as the use of odor suppression foam may be required. An Action Limit is a contaminant concentration that when exceeded requires a work stoppage.

The following target compounds and corresponding Alert Limits and Action Limits were developed in accordance with the NYSDOH Generic CAMP.

Target Compounds	Alert Limit
TVOCs (15-minute average concentration)	3.7 ppm greater than background*
Respirable Particulate Matter (RPM_{10}) (15-minute average concentration)	100 $\mu g/m^3$ greater than background*

Target Compounds	Action Limit
TVOCs (15-minute average concentration)	5.0 ppm greater than background*
TVOCs (1-minute concentration)	25 ppm greater than background*
Respirable Particulate Matter (RPM_{10}) (15-minute average concentration)	150 $\mu g/m^3$ greater than background*
Odor (n-butanol scale) (15-minute sustained)	3 (Verified related to construction)
Odor (nuisance)	Public complaints that are verified to be related to construction
Hydrogen cyanide (15-minute average concentration)	1 ppmv

ppmv - parts per million by volume
$\mu g/m^3$ - micrograms per cubic meter
* Background is defined as the current upwind fifteen-minute average concentration.

2.2 Real-Time Fixed Station Monitoring

Real-time air monitoring for TVOCs and RPM_{10} will be conducted upwind and downwind of the work area along the site perimeter. The intent of the real-time monitoring program is to provide early detection in the field of short-term emissions and off-site migration of site-related TVOCs and dust. Real-time monitors will operate 24 hours per day during periods of excavation activity. The perimeter air monitoring system consists of four Air Monitoring Stations (AMS), one meteorological tower, and one central computer system. The central computer system will be located in the project trailer located on the site.

Real-time monitoring will be conducted at four fixed air-monitoring stations (AMS-1 through AMS-4, Figure 2). The rationale for the placement of each fixed station is summarized below.

Based on surface meteorological data from Glens Falls weather station (KGFL) from the January 1, 2008 to December 31, 2008, the predominant wind directions in the area are from the North and the South. Commercial properties are located immediate adjacent to the North, West, and South site boundaries. Residences are located to the west of the Site, across Hodgeman Street, and to the south of the Site, beyond the commercial facilities and across Caroline Street. The potential sensitive receptors in the area are the public commercial facilities including the Children's Museum and associated parking area. The real-time fixed air monitoring stations will be positioned between the work zone and the largest number of potential off-site receptors. Therefore, the placement of the fixed air monitoring stations is based on the need to document all potential offsite migration on the perimeter, but also recognizes the potential off-site receptors and the location of the proposed construction activities. The following are the approximate location of the fixed air monitoring stations:

- **AMS-1** will be located along the northern boundary of the site adjacent to Lake Avenue.
- **AMS-2** will be located along the eastern boundary adjacent to the firehouse entrance at Hodgeman Street.
- **AMS-3** will be located along the southern boundary adjacent to Short Alley.
- **AMS-4** will be located on the western boundary of the site adjacent to the commercial properties.

Each real-time air monitoring station contains the following:

1. Station enclosure
2. An organic vapor analyzer
3. A particulate monitor
4. A data communications device

Each monitoring station is housed in a weather-tight NEMA-4 type enclosure. The internal components of an air monitoring station are illustrated in Figure 3.

Each monitoring station will continuously measure and record TVOCs and RPM_{10}.

Each portable particulate meter will be equipped with a PM-10 impactor to monitor RPM less than 10 microns (RPM_{10}). Particulate meters analyze samples once every minute.

In addition to the four monitoring stations, a Campbell Scientific, Inc. Met Data1 meteorological monitoring system, or equivalent, will be established on site. The meteorological system will be set at a height of 3 meters (approximately 10 feet) aboveground and located along the northern boundary of the site in an area that is clear of buildings, trees, or other obstructions (Figure 1). The meteorological system will continuously monitor temperature, relative humidity, wind speed, and wind direction. Fifteen-minute average values for each meteorological parameter will be stored in the meteorological system until downloaded once per week. However, real-time wind direction and speed are displayed on the central computer.

All TVOC, RPM_{10}, and meteorological data will be stored in dataloggers located within each monitoring station for up to 48 hours. Stored analytical data along with system performance data from each station will be sent in real-time, via radio telemetry, to the central computer system located in the project office or trailer for monitoring and analysis.

Equipment calibration will be performed according to manufacturer's instructions. Each organic vapor analyzer will be calibrated once daily using a certified standard isobutylene gas. Particulate monitors for RPM_{10} will be zeroed daily. Hand-held portable equipment will be calibrated before each use, and a minimum of once per week when not in use.

In the event of an exceedance of an Alert Limit or Action Limit for TVOC or RPM_{10}, the air-monitoring consultant will be notified via phone paging. The central computer will be equipped with a modem or wireless card that is capable of sending text pages to cell phones. If a TVOC Alert Limit or Action Limit is reached during non-working hours, the system will be checked remotely and an appropriate response action will be determined.

2.3 Supplemental and Perimeter Walk-around Monitoring

Supplemental walk-around perimeter monitoring for TVOC, RPM_{10}, and odor will occur along the perimeter of the project site on an as-needed basis. Specific site conditions that may trigger walk-around perimeter monitoring include:

- Visible dust
- Odor complaints
- Detection of TVOCs and/or RPM_{10} at an AMS at concentrations exceeding an Alert Limit or Action Limit
- Direction by National Grid or the construction manager

Fifteen-minute average TVOC, $RPM_{10,}$ and odor intensity readings will be collected continuously at a downwind location between the work area and the nearest receptors.

When a triggering condition is observed during ground intrusive activity, the supplemental down wind perimeter monitoring will occur continuously until the conditions that triggered the monitoring have subsided. TVOC concentrations will be monitored and recorded using a Portable Ionization Detector (PID) or equivalent. RPM_{10} will be measured and recorded using a portable real-time aerosol monitor equipped with a PM-10 impactor. Odor intensity will be noted based on the 8-point n-butanol scale, as adapted from ASTM E544-99. At each monitoring point, the 15-minute average value of TVOC and RPM_{10}, odor intensity, sample time, and sample location will be collected and recorded. Additional temporary monitoring points may be established due to changing site or meteorological conditions.

If cyanide materials are encountered during excavation or work area monitoring detects a confirmed measurement of cyanide, cyanide will be monitored at the perimeter downwind. To monitor cyanide (as hydrogen cyanide gas), a real-time hand-held meter in conjunction with the Dräger tubes will be used. Types of continuously monitoring equipment include the V-RAE by Rae Systems and the Mini-Warn by Dräger Safety Systems and are available from rental equipment suppliers.

Due to potential interference from sulfur compounds, hydrogen sulfide gas (H_2S) will also be monitored for comparison to the hydrogen cyanide gas levels detected. Hydrogen cyanide gas detections will also be confirmed with Dräger tubes due to this interference.

2.4 Time-Weighted Average Volatile Organic Compound Measurements

Verification VOC samples will be collected once per week at two air-monitoring stations. The verification samples are collected to demonstrate that the real-time monitoring stations are effective in measuring the concentration of the VOC target compounds. VOC samples will be collected using 6-liter Summa® canisters (or equivalent vacuum canisters) and analyzed using United States Environmental Protection Agency (EPA) Method TO-15 modified to include naphthalene. An accredited laboratory will perform the analytical testing on the canisters and will provide Category B deliverables as required by the New York Analytical Services Protocol. The data will be validated according to EPA and New York State Requirements.

2.5 Pre-Construction Baseline Sampling

Pre-construction sampling will be completed to establish baseline ambient air concentrations prior to the start of construction activities. Baseline conditions will be developed for TVOCs and RPM_{10} in ambient air using real-time fixed station sampling methods. In addition, a baseline odor survey will be completed during background sampling activities. Sample collection and analysis methods will follow those described in subsection 2.2 (Real-Time Fixed Station Monitoring).

Pre-construction real-time sampling will take place at the four fixed air monitoring station locations to determine TVOC and RPM_{10} baseline conditions. TVOC data will be recorded 24 hours per day for a minimum of three days.

Pre-construction odors will also be established prior to construction activities. On-site and off-site odor surveys will be conducted using the 8-point n-butanol scale. The on-site odor surveys will be conducted along the perimeter of the site. The off-site odor surveys will be conducted throughout adjacent neighborhoods and adjacent to the wastewater treatment plant east of the site.

2.6 Data Management Procedures

This section of the plan discusses the data management procedures that will be used during the remedy. Data will be generated from a variety of sources, including real-time fixed station analytical monitoring, supplemental walk-around monitoring, pre-construction sampling, verification TO-15 sampling, and meteorological monitoring. These data must be reduced, evaluated, verified, and presented to National Grid and the

construction manager in a timely manner to facilitate decision-making. The data management process for each source of data is discussed below.
Analytical data generated at each fixed-station monitoring location are sent to the central computer system via radio telemetry. Proprietary software translates the data into Microsoft Excel format for data analysis, interpretation, and reporting. The fixed station baseline monitoring data will also be downloaded to the project database for data evaluation. The following daily charts or tables will be prepared:

- Instantaneous and averaged TVOC concentrations compared to the TVOC Action Limit
- Instantaneous and averaged RPM_{10} concentrations compared to the RPM_{10} Action Limit
- Supplemental Perimeter Walk-Around RPM_{10} concentrations compared to the Action Limit (if any)
- Supplemental Perimeter Walk-Around TVOC concentrations compared to the TVOC Action Limit (if any)

The following weekly charts or tables will be prepared and transmitted to the NYSDEC and NYSDOH:

- 15-minute average wind speed, wind direction, humidity, and air temperature
- Maximum 15-minute average concentrations of TVOC, $RPM_{10,}$ and odor intensity
- Upwind and downwind comparison of Alert and Action Limits reached during the week
- Summary of site activities
- Air monitoring station locations

The air-monitoring contractor will review all real-time data in a timely manner following collection and transmit the summary report to National Grid.

3. Contingency Plan

This section of the CAMP presents the air monitoring contingency plan. The purpose of the contingency plan is to identify potential site control measures that may be implemented in response to elevated levels of target compounds or odor measured during ground intrusive activities. In general, a tiered approach to site conditions with corresponding response actions will be implemented during the air monitoring program. The three tiers of site conditions are defined as follows.

- **Alert Level 1.** Normal or ambient air-conditions where all target concentrations are less than the Alert Limit.
- **Alert Level 2.** Concentration of at least one target is equal to or greater than Alert Limit, but less than the Action Limit.
- **Action Level.** Concentration of at least one target is equal to or greater than the Action Limit.

The contingency plan will rely on real-time data generated from the fixed-station monitoring, odor intensity monitoring, and meteorological monitoring. These data sources will be evaluated together in order to make appropriate decisions concerning site conditions and potential control measures.

An explanation of the notification system, specific conditions, and response actions for VOCs, RPM_{10}, and odor intensity are presented below.

3.1 VOCs

TVOC concentrations in air will be measured and recorded by fixed-station monitors. Figure 4 presents the TVOC decision diagram that will be used to determine the appropriate site condition based on contaminant concentrations. Alert Level 1 site conditions will be in effect when the TVOC concentration is less than the Alert Limit (3.7 ppm).

Under an Alert Level 1 site condition, each organic vapor analyzer located at the fixed monitoring stations will collect and analyze a TVOC sample at a frequency of one sample per minute.

A preliminary Alert Level 2 site condition will occur if the TVOC concentration measured at a fixed station is greater than or equal to the Alert Limit (3.7 ppm) but less than the Action Limit (5.0 ppm). The construction manager, National Grid, and the air-monitoring contractor will be notified of elevated measurements and a possible Alert Level 2 site condition.

At this time, the upwind and downwind concentrations will be compared to determine if the preliminary Alert Level 2 site condition is due to site activities. If downwind TVOC concentrations are greater than upwind concentrations, then it will be assumed that the preliminary site condition is due to site activities.

If the above condition is true, then an Alert Level 2 site condition will be verified. Under a verified Alert Level 2 site condition, a contingency meeting attended by the air-monitoring consultant, National Grid, NYSDEC or NYSDOH representatives, and the construction manager will be held to determine appropriate response actions. This meeting will be held within 60 minutes of the Alert Level 2 site condition verification. Possible Alert Level 2 response actions are listed in Table 1. The site will remain in Alert Level 2 as long as the TVOC concentration is between 3.7 ppm (Alert Limit) and 5.0 ppm (Action Limit), based on 15-minute averages.

If average TVOC concentrations increase to greater than the Action Limit of 5.0 ppm, then the site will enter into an Action Level site condition. An Action Level site condition will remain in effect if either of the following conditions are true.

- The average TVOC concentration, measured over a 15-minute period, is greater than or equal to 5.0 ppm (Action Limit)
- The instantaneous TVOC concentrations are greater than 25 ppm

Under an Action Level site condition, all construction activities will be halted. A meeting attended by the air monitoring consultant, NYSDEC or NYSDOH representatives, National Grid, and the construction manager will be held within 60 minutes of the Action Level notification to determine appropriate response actions. Possible Action Level corrective measures/actions are listed in Table 1. After appropriate corrective measures/actions are taken, work activities may resume provided that the TVOC concentration at the site perimeter is no more than 5 ppm above background for the 15-minute average.

If average TVOC concentrations fall below the Action Limit, then the site will be returned to an Alert Level 2 site condition, at which time work activities may resume. The Alert Level 2 site condition will remain in effect as long as the following condition is true.

- The 15-minute average concentration for TVOCs is greater than 3.7 ppm (Alert Limit) and less than 5.0 ppm (Action Limit).

The site will return to Alert Level 1 site condition if the following condition is true.

- The 15-minute average concentrations for TVOCs at each of the fixed monitoring stations are less than 3.7 ppm (Alert Limit).

Specific TVOC target concentrations for Alert Level 1, Alert Level 2, and Action Level site conditions are summarized in Table 2.

3.2 Respirable Particulate Matter

RPM_{10} concentration in air will be measured and recorded by the fixed-station monitors. Figure 5 presents the RPM_{10} decision diagram. Alert Level 1 site condition will be in effect when the downwind 15-minute average RPM_{10} concentration is less than 100 $\mu g/m^3$ than the current average upwind conditions (Alert Limit). A preliminary Alert Level 2 site condition will occur if the RPM_{10} concentration at a fixed station is greater than 100 $\mu g/m^3$. At this time, the construction manager, National Grid, and the air-monitoring contractor will be notified of elevated measurements and a possible Alert Level 2 site condition. Under a preliminary Alert Level 2 site condition, upwind and downwind RPM_{10} concentrations will be compared to determine if the preliminary Alert Level 2 site condition is due to site activities. If downwind RPM_{10} concentrations are 100 ug/m^3greater than upwind concentrations (Alert Limit), then it will be assumed that the preliminary Alert Level 2 site condition is due to site activities.

If elevated RPM_{10} concentrations are found to be related to site activities, then RPM_{10} measurements will be collected over a 15-minute period and averaged. If the 15-minute average RPM_{10} concentration is equal to or greater than 100 $\mu g/m^3$ above the upwind RPM_{10} (Alert Limit), then the Alert Level 2 site condition will be verified.
The Alert Level 2 site condition will remain in effect as long as the average RPM_{10} concentration is greater than or equal to 100 $\mu g/m^3$ above upwind conditions (Alert Limit), and less than or equal to 150 $\mu g/m^3$(Action Limit). Under a verified Alert Level 2

site condition, dust suppression techniques must be implemented. At this point, routine monitoring continues and 15-minute averages continue to be evaluated. Work may continue with dust suppression techniques provided that downwind RPM_{10} levels do not exceed 150 ug/m^3 above the upwind level (Action Limit) and provided that no visible dust is migrating offsite from the work area. A contingency meeting attended by the air monitoring contractor, National Grid, the NYSDEC or NYSDOH representatives, and the construction manager will be held within 60 minutes of the verified Alert Level 2 site condition if the condition is not mitigated by dust suppression techniques. Possible response actions for dust control are listed in Table 1.

An Action Level site condition will go into effect if the average 15-minute RPM_{10} concentration exceeds 150 µg/m^3 above the current average upwind concentration (Action Limit). Under an Action Level site condition, work must be stopped and a meeting attended by the air monitoring contractor, National Grid, the NYSDEC or NYSDOH representatives, and the construction manager will be held within 60 minutes of the Action Level notification to determine appropriate response actions. Possible Action Level response actions for RPM_{10} are listed in Table 1. Work may resume provided that dust suppression measures and other controls are successful in reducing the downwind RPM_{10} concentration to within 150 ug/m^3 of the upwind level and in preventing visible dust migration.

Specific RPM_{10} target concentrations for Alert Level 1, Alert Level 2, and Action Level site conditions are summarized in Table 2.

3.3 Visible Dust

In addition to measured RPM_{10} levels, visible dust will be monitored. If visible airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind RPM_{10} levels do not exceed 150 µg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

3.4 Odor

Odors from MGP sites are generally negligible due to surface soil cover of contaminated materials. However, excavation work may expose these materials and odors may become detectable.

This may cause concern among the nearby community, visitors to the site, and on-site workers regarding potential health risks. Health risks or the potential for health risks do not rely strictly on detectable odors. A detectable odor does not indicate health risks. However, controlling odor emissions from a site can allay public fears about health risks and provide additional means of controlling nuisance emissions during remediation activities.

For MGP sites, the characteristic odor during remediation has been attributed primarily to naphthalene and indene, although additional compounds may contribute to the overall odor. (Pure naphthalene has the characteristic odor of mothballs). EPA provides a threshold for the initial presentation of naphthalene odors at 440 $\mu g/m^3$ (ATSDR, 1995; Amoore and Hautala, 1983). There is no reported odor threshold for indene. Odors emanating from the site will be monitored for general odor intensity, as described below.

Odor intensity levels will be noted and recorded during as needed perimeter walk-around monitoring. Intensity levels will be based on the 8-point n-butanol scale as adapted from ASTM E544-99.

Figure 6 illustrates the odor decision diagram. An Alert Level 1 site condition will remain in effect if the odor intensity, based on the 8-point n-butanol scale, is less than 3 (Action Limit). An Action Level site condition will go into effect when odor intensities are greater than 3, based on the 8-point n-butanol scale, or there are odor complaints from the public.

If an Action Level site condition, due to odor, is verified, then a meeting attended by the air monitoring contractor, National Grid, NYSDEC or NYSDOH representatives, and the construction manager will be held within 60 minutes of the Action Level to determine appropriate response actions. Possible Action Level responses are listed in Table 1.

3.5 Hydrogen Cyanide

Hydrogen cyanide will be monitored on the perimeter of the site if cyanide-containing material (e.g. purifier waste) is encountered during excavation or work place monitoring detects confirmed levels of cyanide. Sampling will be performed every fifteen minutes if sulfur odor or suspected purifier material is encountered. Measurements will be made downwind, and will be recorded into the field notebook. In the event that hydrogen cyanide is detected, the following procedures will be implemented:

Hydrogen Cyanide Gas Air Monitoring Plan	
Response Level	**Actions**
>1 ppm for 15-minute average using real-time meter (Alert Level 2)	Run Dräger tubes Continue monitoring with real-time meter Continue work if Dräger tube for hydrogen cyanide reads <0.5 ppm
>0.5 ppm on Dräger tube (Alert Level 3)	Stop work and move (with continuous monitoring meter) at least 25 feet up-wind from excavation or until continuous monitoring meter registers <1 ppm Run Dräger hydrogen cyanide tube and re-evaluate activities Continue monitoring with real-time meter May resume work if Dräger tube for cyanide reads <0.5 ppm
> 1 ppm for 15-minute average using real-time meter and < 0.5 ppm on Dräger tube	Run Dräger using hydrogen cyanide gas tube and confirm <0.5 ppm concentration Continue monitoring with real-time meter Run Dräger tube using sulfur dioxide, hydrogen sulfide and phosphine tubes to evaluate potential interference Recalibrate the real-time meter and continue to monitor the work zone.
NOTE: The ACGIH Threshold Limit Value (TLV) for Hydrogen Cyanide is 4.7 ppm.	

4. Alternate Monitoring Procedures

The procedures noted above are directed towards the monitoring of perimeter air during the conduct of significant ground intrusive activities. Significant ground intrusive activities are those excavations on the site where there is reasonable expectation of encountering MGP-impacted materials. Where appropriate, an alternative level of monitoring which is in compliance with NYSDOH CAMP Guidance in DER-10 and equally protective of the community may be employed. Based on specific field activities, a decision will be made as to the appropriate level of monitoring. Specific activities could include trenching and surface restoration activities for the installation of the catch basin piping in Short Alley or additional geotechnical or environmental borings deemed necessary during the performance of the remedy. For these activities, monitoring may be performed using equipment and procedures similar to those used at the site during previous investigation activities as described below.

Real-time air monitoring for TVOCs and suspended particulates will be conducted upwind and downwind of the work area at the site perimeter. Real-time monitors will operate during periods of excavation/construction activity during working hours only.

Each alternative air monitoring station would include the following:

1. Station Tripod
2. An organic vapor analyzer
3. A particulate monitor

Instruments will be positioned to monitor from the breathing zone.

Each monitoring station will continuously measure and record TVOCs and RPM_{10}. All TVOC and RPM_{10} will be stored in dataloggers located within each monitoring station. Data from each piece of equipment will be downloaded daily at the completion of excavation/construction activities and stored on a central computer system. The location of each station, the work zone, and the wind direction will be noted daily. At each monitoring station location, the 15-minute average value of TVOC and RPM_{10} will be recorded. The 15-minute average value of TVOC and RPM_{10} data from the upwind and downwind station will be compared and resultant downwind concentration will be calculated and recorded.

If cyanide materials are encountered during excavation or work area monitoring detects a confirmed measurement of cyanide, cyanide will be monitored at the perimeter downwind. To monitor cyanide (as hydrogen cyanide gas), a real-time hand-held meter in conjunction with Dräger tubes will be used. Types of continuously monitoring equipment include the V-RAE by Rae Systems and the Mini-Warn by Dräger Safety Systems and are available from rental equipment suppliers. Due to potential interference from sulfur compounds, hydrogen sulfide gas (H_2S) will also be monitored for comparison to the hydrogen cyanide gas levels detected. Hydrogen cyanide gas detections will also be confirmed with Dräger tubes due to this interference.

Tables

Table 1
Levels and Response Actions
CAMP Work Plan for
Saratoga Springs (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Site Condition	Response Action
Alert Level 1	▪ Normal Site Operations – No Response Action Required
Alert Level 2	▪ Establish trend of data and determine if evaluation/wait period is warranted ▪ Temporarily stop work ▪ Temporarily relocate work to an area with potentially lower emission levels ▪ Apply water to area of activity or haul roads to minimize dust levels ▪ Reschedule work activities ▪ Cover all or part of the excavation area ▪ Apply VOC emission suppressant foam over open excavation areas ▪ Slow the pace of construction activities ▪ Change construction process or equipment that minimize air emissions ▪ Install a perimeter barrier fence
Action Level	▪ Encapsulate construction area and treat air exhaust ▪ Perform work during cold weather ▪ Cease construction activities ▪ Re-evaluate air monitoring work plan

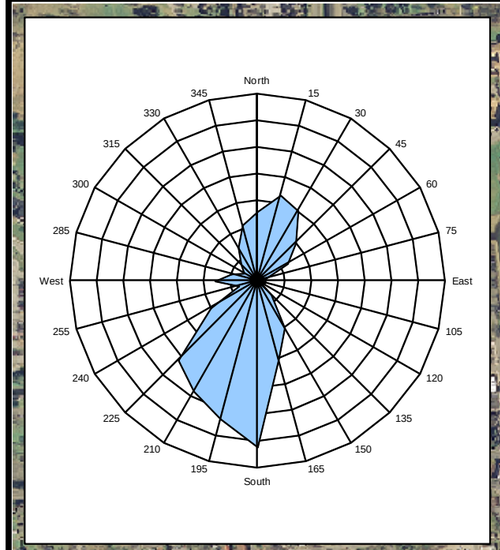
Notes:
The bulleted response actions specified under each site condition can be implemented in any order that is most appropriate under the existing site conditions.

Table 2
Target Concentrations for Site Conditions
CAMP Work Plan for
Saratoga Springs (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Target	Alert Limit	Action Limit	Site Condition			
			Alert Level 1	Preliminary Alert Level 2	Alert Level 2	Action Level
Total VOC (PID)-ppmv	3.7	5.0	[C]<3.7	3.7<=[C]<=5.0	3.7<=[C_{avg}]<=5.0	[C_{avg}]>5.0
RPM_{10}-ug/m^3	100	150 greater than upwind	[C]<100	100<=[C]<=150	100<=[C_{avg}]<=150	[C_{avg}]>150
Odor (n-butanol scale)	NA	3	OI<3 and No Odor Complaints	NA	NA	OI>=3 or Odor Complaints
Odor (naphthalene) - ug/m^3	NA	440	[C]<440	N/A	N/A	[C_{avg}]>440
Hydrogen Cyanide - ppmv	NA	1	[C_{avg}]<1	[C_{avg}]>1	[C_{avg}]>1 (meter) and [C]>=0.5 (Drager Tube)	[C_{avg}]>1 (meter) and [C]>=0.5 (Drager Tube)

Notes:
VOC = Volatile Organic Compound
PID = Photoionization Detector
RPM_{10} = Respirable Particulate Matter
ppmv - parts per million volume
ug/m3 - micrograms per cubic meter
[C] = Concentration of target collected from a discrete sample.
[C_{avg}] = 15-minute average concentration of target.
NM = Target is not measured during this site condition.
OI = Odor Intensity based on the 8-point n-butanol scale adapted from ASTM E544-99.
Odor measurements made over a 15 minute interval.
NA - Not applicable, odor intensity will be either an Alert Level 1 or Action Level; there is no Alert Level 2 for odc

Figures



LEGEND

- MUSEUMS
- BUSINESSES
- PARKS
- PLACES OF WORSHIP
- LIBRARIES
- NURSING HOMES
- SCHOOLS/DAYCARES

1/2 MILE RADIUS

SITE LOCATION

SOURCE:
1. Wind rose for the period January 1st through December 31, 2008. Wind direction data were digitized from: http://www.weatherunderground.com Station ID: KGFL

2. Orthophoto obtained from New York State Interactive Mapping Gateway (http:/.www1.nysgis.state.ny.us/MainMap.cfm) photo date: April 2007, accessed 2/26/09.

0 375 750 1,500

SCALE, FEET

SARATOGA SPRINGS (LAKE AVE.)
NON-OWNED FORMER MGP SITE
COMMUNITY AIR MONITORING PROGRAM
SARATOGA SPRINGS, NEW YORK

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SITE LOCATION AND POTENTIAL SENSITIVE RECEPTORS

Proj. 034400-2 | August 2009 | Figure 1

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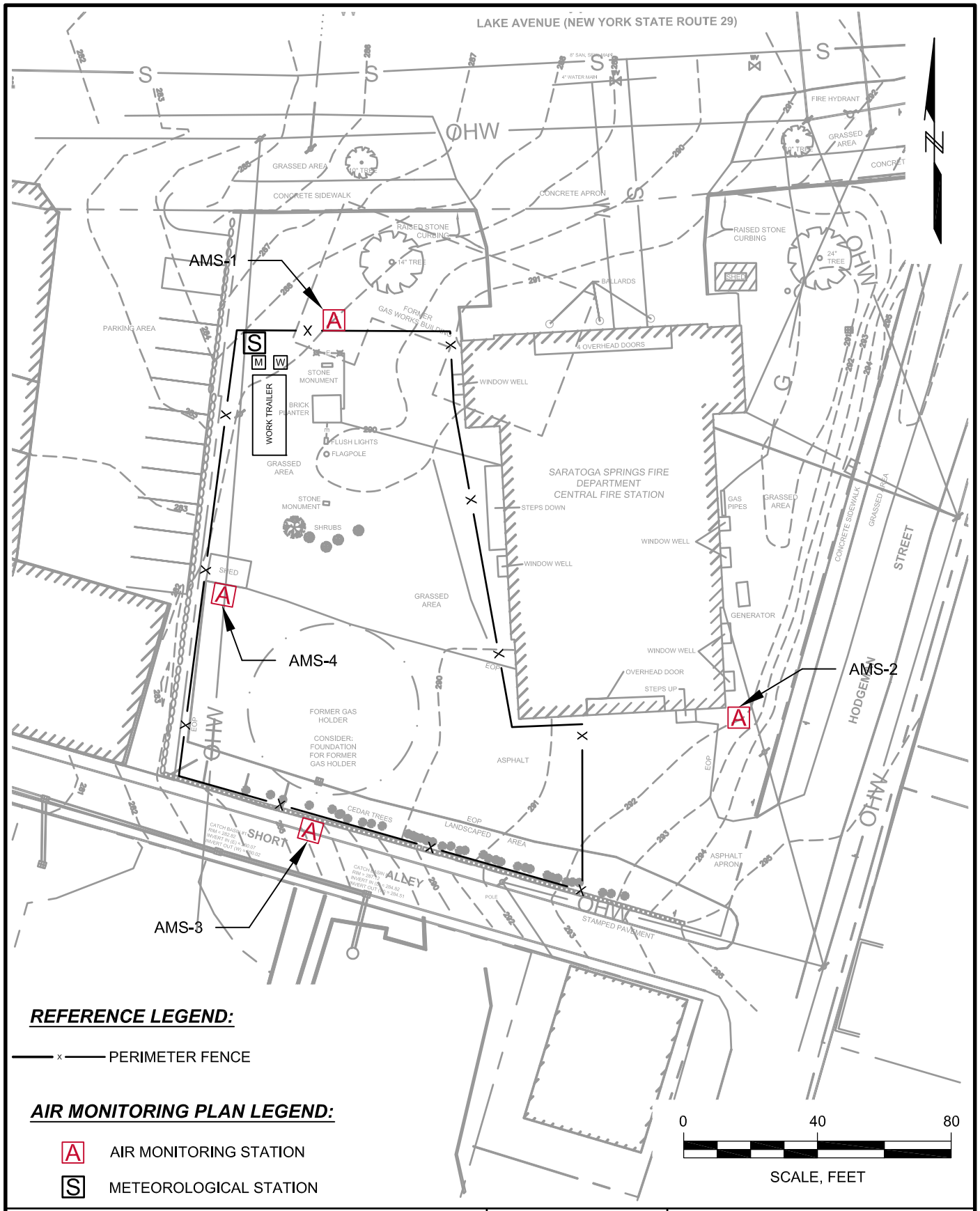

REFERENCE LEGEND:

PERIMETER FENCE

AIR MONITORING PLAN LEGEND:

A — AIR MONITORING STATION

S — METEOROLOGICAL STATION

SARATOGA SPRINGS (LAKE AVE)
NON-OWNED MGP SITE
COMMUNITY AIR MONITORING PROGRAM
SARATOGA SPRINGS, NEW YORK

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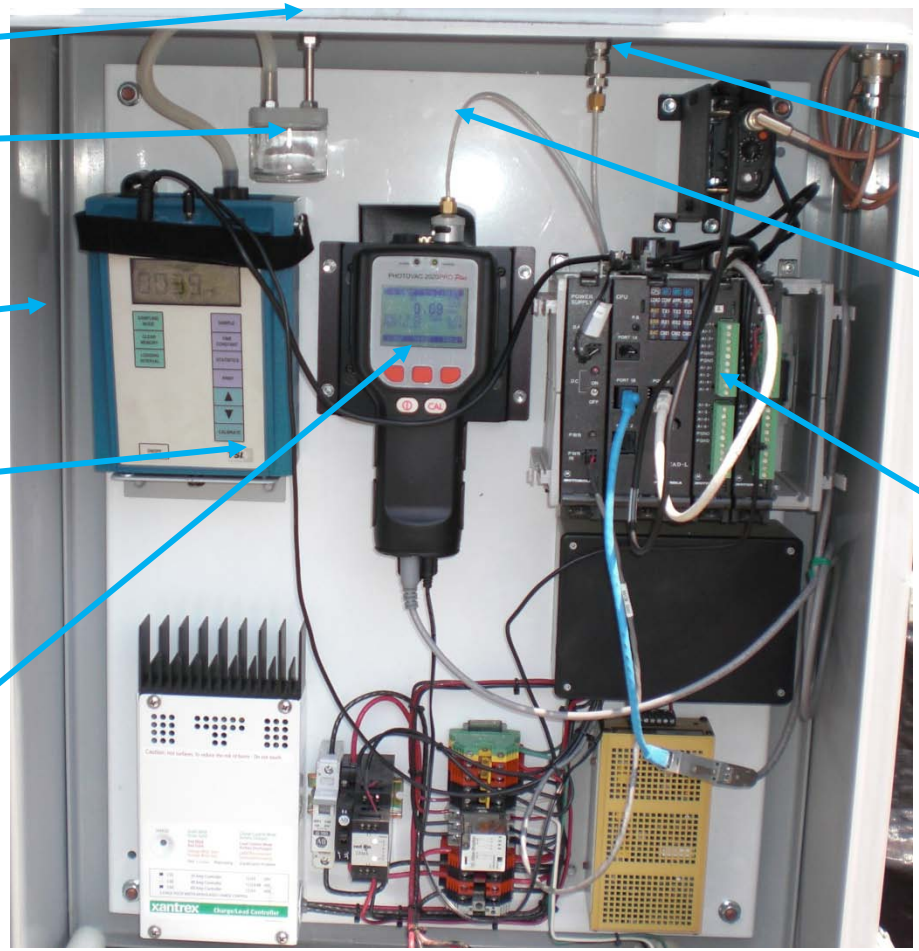
SITE MAP AND AIR MONITORING STATION LOCATIONS

Project 034400-2 | August 2009 | Figure 2

H:\TECH\project\Nimo\Saratoga Springs\2009 Remediation and Oversight\RAWP\CAMP\ FIGURE 2 SITE MAP AND AIR MONITORING STATION LOCATIONS.dwg \Aug 26, 2009



1. Station enclosure
2. Organic Vapor Monitor (OVM)
3. OVM sample inlet
4. OVM sample inlet tubing
5. Dusttrak™ Aerosol Monitor portable real-time aerosol monitor
6. Dusttrak™ sample inlet with PM-10 impactor
7. DataRAM sample tubing with in-line condensor
9. Data communications device
10. Solar Panel

Note: Figure depicts an AirLogics Light, LLC Perimeter Air Monitoring System as an example and may not be representative of the actual system or components that will be employed at the Site

SARATOGA SPRINGS (LAKE AVE) NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

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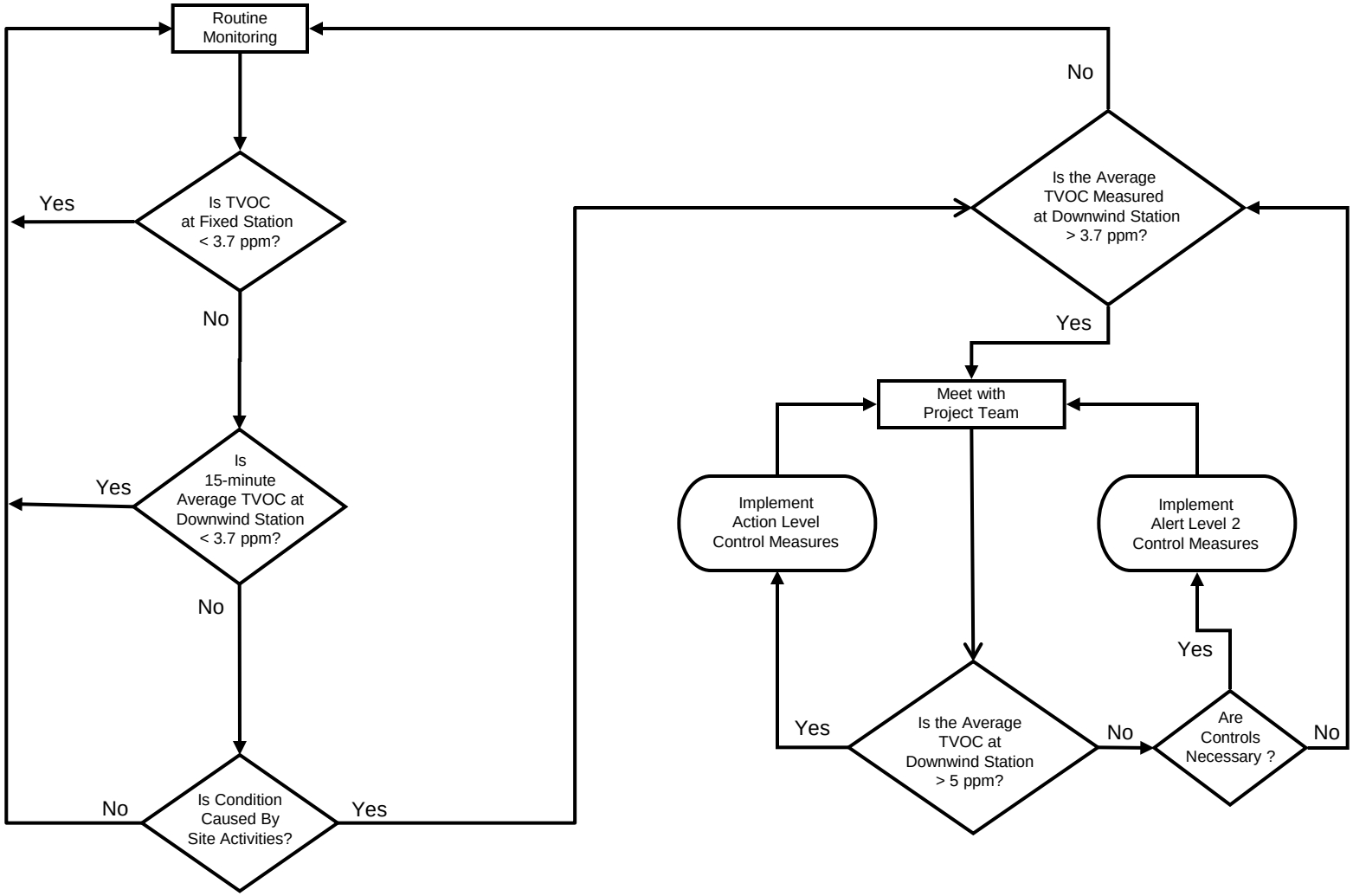
EXAMPLE FIXED STATION INTERNAL COMPONENTS

AUGUST 2009

Figure 3



TVOC – Total Volatile Organic Compound

ppm – parts per million

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SARATOGA SPRINGS, NEW YORK

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TVOC DECISION DIAGRAM

PROJECT 034400-2 | AUGUST 2009 | Figure 4

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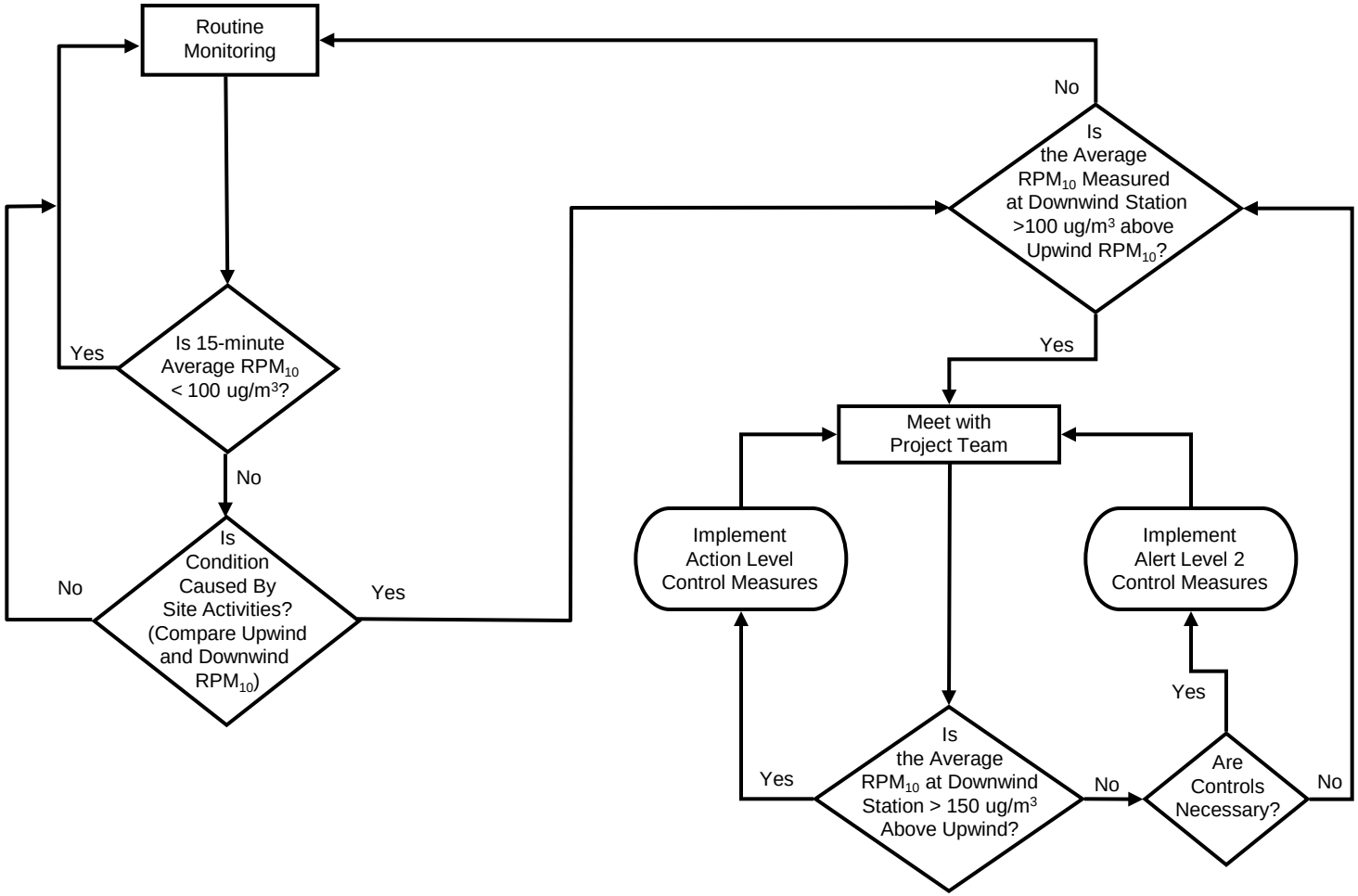

RPM_{10} – Respirable Particulate Matter

ug/m^3 – micrograms per cubic meter

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SARATOGA SPRINGS, NEW YORK

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RESPIRABLE PARTICULATE MATTER DECISION DIAGRAM

PROJECT 034400-2 | AUGUST 2009 | Figure 5

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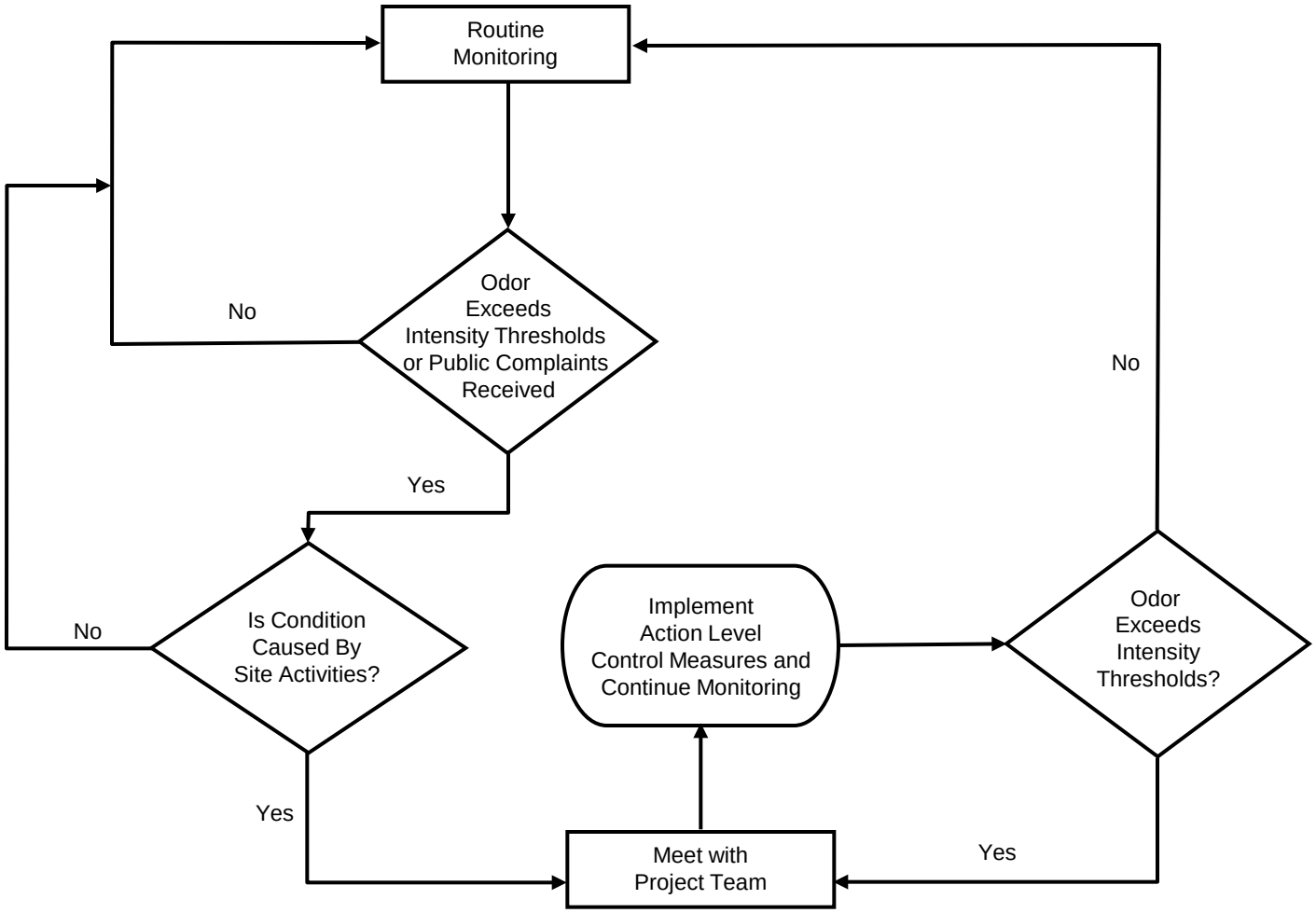

SARATOGA SPRINGS (LAKE AVE) NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

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ODOR DECISION DIAGRAM

PROJECT 034400-2 | AUGUST 2009 | Figure 6

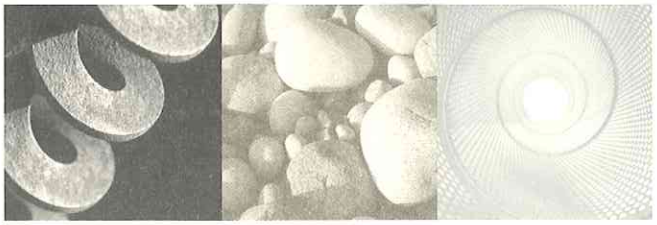
H:\WPROC\Project\NationalGrid\Saratoga\RAWP 2009\Final RAWP\Appendix F\Saratoga CAMP Figures 3 thru 6.ppt

Appendix E

Community Air Monitoring Plan

These NYSDEC-approved CAMP is in compliance with DER-10 and all other applicable Federal, State and local regulations. They are provided for example only.

Based on changes to State and federal guidelines, and specific methods employed by future contractors this document may need to be updated. The updated CAMP should be re-submitted to the NYSDEC for approval.



GEI Consultants

Geotechnical
Environmental and
Water Resources
Engineering

Community Air Monitoring Program Work Plan

Saratoga Springs (Lake Avenue) Non-Owned Former Manufactured Gas Plant Site

Saratoga Springs, New York
AOC Index No. A2-0552-0606
Site No. V00475

Submitted to:
National Grid
300 Erie Boulevard West
Syracuse, NY 13202

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August 27, 2009
Project # 034400-2-2001

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Executive Summary

This Community Air Monitoring Program (CAMP) Work Plan has been developed to provide specific procedures for measuring, documenting, and responding to potential airborne contaminants during the remedial action at the Saratoga Springs (Lake Avenue) Non-Owned Former Manugtfactured Gas Plant site. The procedures in this CAMP are focused on the monitoring of airborne contaminants at the site perimeter and will complement the work zone monitoring conducted to protect site workers as described in the site Health and Safety Plan (HASP). This CAMP Work Plan is based on and builds on the CAMP guidelines established by the New York State Department of Health (NYSDOH) in the New York State Department of Environmental Conservation (NYSDEC) DER-10 Draft Technical Guidance for Site Investigation and Remediation (DER-10) (December 2002). Site activities related to the proposed project will begin September 2009. The CAMP is designed to provide monitoring procedures, Alert Limits, Action Limits, and contingency measures if Action Limits are approached. An Alert Limit is a contaminant concentration or odor intensity that triggers contingent measures. An Alert Limit does not suggest the existence of a health hazard, but serves instead as a screening tool to trigger contingent measures if necessary, to assist in minimizing offsite transport of contaminants and odors during remedial activities. An Action Limit is a contaminant concentration or odor intensity that triggers work stoppage.

During times of ground intrusive activities, fenceline perimeter air monitoring will be conducted using a combination of real-time (continuous and almost instantaneous) air monitoring at fixed locations (24 hours a day/7 days a week) and walk-around supplemental monitoring using hand-held instruments on an as-needed basis. Contaminants commonly found at former MGP sites will be monitored, including volatile organic compounds (VOCs) and dust. Relative odor intensity will also be monitored using an American Society for Testing Materials (ASTM) method. The Contingency Plan defines Alert Levels, Action Levels, and specific response activities to be implemented during working hours if an exceedance of an Alert Limit or Action Limit for a measured compound occurs. The response actions, potentially including work stoppage, are intended to prevent or significantly reduce the migration of airborne contaminants from the site. Although hydrogen cyanide has not been detected in the soil or groundwater, there will be a separate contingency plan for monitoring for its presence if cyanide-containing material is encountered during excavation. A representative from the NYSDEC will be present during the critical phases of the remedial work to review monitoring data as it is recorded.

The following plan describes the monitoring to be conducted during significant ground intrusive activities. Significant ground intrusive activities are those excavations on the site where there is reasonable expectation of encountering MGP-impacted materials. Where appropriate, an alternative level of monitoring which is in compliance with NYSDOH CAMP Guidance in DER-10 and equally protective of the community may be employed. Based on specific field activities, a decision will be made as to the appropriate level of monitoring. Specific activities could include pre-trenching and surface clearing activities for the installation of the subsurface barrier in the Bulkhead Area or additional geotechnical or environmental borings deemed necessary during the performance of the remedy. For these activities, monitoring may be performed using equipment and procedures similar to those used at the site during previous investigation activities as described in Section 4 of this document.

1. Introduction

The NYSDOH Generic Community Air Monitoring Program (CAMP), as presented in New York State Department of Environmental Conservation's (NYSDEC) document DER-10 Technical Guidance for Site Investigation and Remediation, requires that real-time monitoring for total volatile organic compound (TVOC) and particulates (i.e., dust) be conducted at the downwind perimeter of each designated work area during ground intrusive activities at contaminated sites. As such, this work plan describes the proposed air monitoring means and methods that will be implemented during the construction activities at the Springs (Lake Avenue) Non-Owned Former Manufactured Gas Plant (MGP) site. A site location map is shown on Figure 1. Proposed construction activities that require ground intrusive activities at the site include the following:

- Excavation of contaminated soil within the former gas holder foundation to approximately 20 feet below ground surface.
- Backfill of the former holder foundation with imported clean fill material and restoration of the surface.

Air monitoring at the site will be conducted in accordance with the NYSDOH CAMP. The purpose of the air-monitoring program is to provide early detection in the field of potential short-term emissions. The early detection of potential emissions and associated contingency measures is intended to expedite any necessary mitigation measures, and to reduce the potential for the community and public to be exposed to hazardous constituents at levels above accepted regulatory limits and guidelines provided in the NYSDOH Generic CAMP. During ground intrusive activities at the site, the CAMP will be conducted using a combination of real-time air monitoring at fixed locations and supplemental walk-around perimeter monitoring using hand-held instruments as appropriate.

The objectives of the CAMP are as follows:

- Provide an early warning system to alert National Grid that concentrations of TVOCs or dust in ambient air are approaching Action Limits due to site activities.
- Provide details for a site contingency plan that is designed to reduce the off-site migration of contaminants/odors if established Action Limits are approached or exceeded.

- Determine whether construction controls are effective in reducing ambient air concentrations to below Action Limits and make appropriate and necessary adjustments.
- Develop a permanent record that includes a database of perimeter air monitoring results and meteorological conditions, equipment maintenance, calibration records, and other pertinent information.

1.1 General Approach

The general approach to meet the objectives of the Plan is two-fold:

1. *Utilize a real-time system to monitor target compounds.* Real-time monitoring data will be used as an early warning system so that the air monitoring contractor can alert National Grid and the construction manager that concentrations of target compounds are approaching Action Limits Under this scenario, National Grid, the construction manager, and the air monitoring contractor can then begin to evaluate and implement appropriate site controls to maintain acceptable ambient air concentrations.

2. *Develop comprehensive data management and analysis procedures.* Data will be generated from a variety of sources, including real-time fixed station analytical monitoring, pre-construction baseline sampling, supplemental hand held equipment, and meteorological monitoring. These data will be reduced, evaluated, verified, and presented to National Grid and the construction manager in a timely manner to facilitate timely decision-making.

2. Sampling and Analytical Procedures

This section of the CAMP presents a detailed description of the air monitoring sampling and analytical procedures, including data management that will be used during the Site ground intrusive activities.

In general, real-time sampling methods will be utilized to determine ambient air concentrations during the project. Real-time continuous monitoring for TVOC and respirable particulate matter (RPM_{10}) will occur at four fixed locations. Meteorological conditions including wind speed and direction, temperature, and relative humidity will be monitored in real time. Supplemental walk-around perimeter monitoring for TVOC, RPM_{10}, and odor intensity will occur along the perimeter of the project site on an as-needed basis.

2.1 Alert Limit and Action Limit

An Alert Limit is a contaminant concentration or odor intensity that when exceeded triggers contingent measures. For example, if odors are detected on site, contingent measures such as the use of odor suppression foam may be required. An Action Limit is a contaminant concentration that when exceeded requires a work stoppage.

The following target compounds and corresponding Alert Limits and Action Limits were developed in accordance with the NYSDOH Generic CAMP.

Target Compounds	Alert Limit
TVOCs (15-minute average concentration)	3.7 ppm greater than background*
Respirable Particulate Matter (RPM_{10}) (15-minute average concentration)	100 $\mu g/m^3$ greater than background*

Target Compounds	Action Limit
TVOCs (15-minute average concentration)	5.0 ppm greater than background*
TVOCs (1-minute concentration)	25 ppm greater than background*
Respirable Particulate Matter (RPM_{10}) (15-minute average concentration)	150 $\mu g/m^3$ greater than background*
Odor (n-butanol scale) (15-minute sustained)	3 (Verified related to construction)
Odor (nuisance)	Public complaints that are verified to be related to construction
Hydrogen cyanide (15-minute average concentration)	1 ppmv

ppmv - parts per million by volume
$\mu g/m^3$ - micrograms per cubic meter
* Background is defined as the current upwind fifteen-minute average concentration.

2.2 Real-Time Fixed Station Monitoring

Real-time air monitoring for TVOCs and RPM_{10} will be conducted upwind and downwind of the work area along the site perimeter. The intent of the real-time monitoring program is to provide early detection in the field of short-term emissions and off-site migration of site-related TVOCs and dust. Real-time monitors will operate 24 hours per day during periods of excavation activity. The perimeter air monitoring system consists of four Air Monitoring Stations (AMS), one meteorological tower, and one central computer system. The central computer system will be located in the project trailer located on the site.

Real-time monitoring will be conducted at four fixed air-monitoring stations (AMS-1 through AMS-4, Figure 2). The rationale for the placement of each fixed station is summarized below.

Based on surface meteorological data from Glens Falls weather station (KGFL) from the January 1, 2008 to December 31, 2008, the predominant wind directions in the area are from the North and the South. Commercial properties are located immediate adjacent to the North, West, and South site boundaries. Residences are located to the west of the Site, across Hodgeman Street, and to the south of the Site, beyond the commercial facilities and across Caroline Street. The potential sensitive receptors in the area are the public commercial facilities including the Children's Museum and associated parking area. The real-time fixed air monitoring stations will be positioned between the work zone and the largest number of potential off-site receptors. Therefore, the placement of the fixed air monitoring stations is based on the need to document all potential offsite migration on the perimeter, but also recognizes the potential off-site receptors and the location of the proposed construction activities. The following are the approximate location of the fixed air monitoring stations:

- **AMS-1** will be located along the northern boundary of the site adjacent to Lake Avenue.
- **AMS-2** will be located along the eastern boundary adjacent to the firehouse entrance at Hodgeman Street.
- **AMS-3** will be located along the southern boundary adjacent to Short Alley.
- **AMS-4** will be located on the western boundary of the site adjacent to the commercial properties.

Each real-time air monitoring station contains the following:

1. Station enclosure
2. An organic vapor analyzer
3. A particulate monitor
4. A data communications device

Each monitoring station is housed in a weather-tight NEMA-4 type enclosure. The internal components of an air monitoring station are illustrated in Figure 3.

Each monitoring station will continuously measure and record TVOCs and RPM_{10}.

Each portable particulate meter will be equipped with a PM-10 impactor to monitor RPM less than 10 microns (RPM_{10}). Particulate meters analyze samples once every minute.

In addition to the four monitoring stations, a Campbell Scientific, Inc. Met Data1 meteorological monitoring system, or equivalent, will be established on site. The meteorological system will be set at a height of 3 meters (approximately 10 feet) aboveground and located along the northern boundary of the site in an area that is clear of buildings, trees, or other obstructions (Figure 1). The meteorological system will continuously monitor temperature, relative humidity, wind speed, and wind direction. Fifteen-minute average values for each meteorological parameter will be stored in the meteorological system until downloaded once per week. However, real-time wind direction and speed are displayed on the central computer.

All TVOC, RPM_{10}, and meteorological data will be stored in dataloggers located within each monitoring station for up to 48 hours. Stored analytical data along with system performance data from each station will be sent in real-time, via radio telemetry, to the central computer system located in the project office or trailer for monitoring and analysis.

Equipment calibration will be performed according to manufacturer's instructions. Each organic vapor analyzer will be calibrated once daily using a certified standard isobutylene gas. Particulate monitors for RPM_{10} will be zeroed daily. Hand-held portable equipment will be calibrated before each use, and a minimum of once per week when not in use.

In the event of an exceedance of an Alert Limit or Action Limit for TVOC or RPM_{10}, the air-monitoring consultant will be notified via phone paging. The central computer will be equipped with a modem or wireless card that is capable of sending text pages to cell phones. If a TVOC Alert Limit or Action Limit is reached during non-working hours, the system will be checked remotely and an appropriate response action will be determined.

2.3 Supplemental and Perimeter Walk-around Monitoring

Supplemental walk-around perimeter monitoring for TVOC, RPM_{10}, and odor will occur along the perimeter of the project site on an as-needed basis. Specific site conditions that may trigger walk-around perimeter monitoring include:

- Visible dust
- Odor complaints
- Detection of TVOCs and/or RPM_{10} at an AMS at concentrations exceeding an Alert Limit or Action Limit
- Direction by National Grid or the construction manager

Fifteen-minute average TVOC, $RPM_{10,}$ and odor intensity readings will be collected continuously at a downwind location between the work area and the nearest receptors.

When a triggering condition is observed during ground intrusive activity, the supplemental down wind perimeter monitoring will occur continuously until the conditions that triggered the monitoring have subsided. TVOC concentrations will be monitored and recorded using a Portable Ionization Detector (PID) or equivalent. RPM_{10} will be measured and recorded using a portable real-time aerosol monitor equipped with a PM-10 impactor. Odor intensity will be noted based on the 8-point n-butanol scale, as adapted from ASTM E544-99. At each monitoring point, the 15-minute average value of TVOC and RPM_{10}, odor intensity, sample time, and sample location will be collected and recorded. Additional temporary monitoring points may be established due to changing site or meteorological conditions.

If cyanide materials are encountered during excavation or work area monitoring detects a confirmed measurement of cyanide, cyanide will be monitored at the perimeter downwind. To monitor cyanide (as hydrogen cyanide gas), a real-time hand-held meter in conjunction with the Dräger tubes will be used. Types of continuously monitoring equipment include the V-RAE by Rae Systems and the Mini-Warn by Dräger Safety Systems and are available from rental equipment suppliers.

Due to potential interference from sulfur compounds, hydrogen sulfide gas (H_2S) will also be monitored for comparison to the hydrogen cyanide gas levels detected. Hydrogen cyanide gas detections will also be confirmed with Dräger tubes due to this interference.

2.4 Time-Weighted Average Volatile Organic Compound Measurements

Verification VOC samples will be collected once per week at two air-monitoring stations. The verification samples are collected to demonstrate that the real-time monitoring stations are effective in measuring the concentration of the VOC target compounds. VOC samples will be collected using 6-liter Summa® canisters (or equivalent vacuum canisters) and analyzed using United States Environmental Protection Agency (EPA) Method TO-15 modified to include naphthalene. An accredited laboratory will perform the analytical testing on the canisters and will provide Category B deliverables as required by the New York Analytical Services Protocol. The data will be validated according to EPA and New York State Requirements.

2.5 Pre-Construction Baseline Sampling

Pre-construction sampling will be completed to establish baseline ambient air concentrations prior to the start of construction activities. Baseline conditions will be developed for TVOCs and RPM_{10} in ambient air using real-time fixed station sampling methods. In addition, a baseline odor survey will be completed during background sampling activities. Sample collection and analysis methods will follow those described in subsection 2.2 (Real-Time Fixed Station Monitoring).

Pre-construction real-time sampling will take place at the four fixed air monitoring station locations to determine TVOC and RPM_{10} baseline conditions. TVOC data will be recorded 24 hours per day for a minimum of three days.

Pre-construction odors will also be established prior to construction activities. On-site and off-site odor surveys will be conducted using the 8-point n-butanol scale. The on-site odor surveys will be conducted along the perimeter of the site. The off-site odor surveys will be conducted throughout adjacent neighborhoods and adjacent to the wastewater treatment plant east of the site.

2.6 Data Management Procedures

This section of the plan discusses the data management procedures that will be used during the remedy. Data will be generated from a variety of sources, including real-time fixed station analytical monitoring, supplemental walk-around monitoring, pre-construction sampling, verification TO-15 sampling, and meteorological monitoring. These data must be reduced, evaluated, verified, and presented to National Grid and the

construction manager in a timely manner to facilitate decision-making. The data management process for each source of data is discussed below.
Analytical data generated at each fixed-station monitoring location are sent to the central computer system via radio telemetry. Proprietary software translates the data into Microsoft Excel format for data analysis, interpretation, and reporting. The fixed station baseline monitoring data will also be downloaded to the project database for data evaluation. The following daily charts or tables will be prepared:

- Instantaneous and averaged TVOC concentrations compared to the TVOC Action Limit
- Instantaneous and averaged RPM_{10} concentrations compared to the RPM_{10} Action Limit
- Supplemental Perimeter Walk-Around RPM_{10} concentrations compared to the Action Limit (if any)
- Supplemental Perimeter Walk-Around TVOC concentrations compared to the TVOC Action Limit (if any)

The following weekly charts or tables will be prepared and transmitted to the NYSDEC and NYSDOH:

- 15-minute average wind speed, wind direction, humidity, and air temperature
- Maximum 15-minute average concentrations of TVOC, $RPM_{10,}$ and odor intensity
- Upwind and downwind comparison of Alert and Action Limits reached during the week
- Summary of site activities
- Air monitoring station locations

The air-monitoring contractor will review all real-time data in a timely manner following collection and transmit the summary report to National Grid.

3. Contingency Plan

This section of the CAMP presents the air monitoring contingency plan. The purpose of the contingency plan is to identify potential site control measures that may be implemented in response to elevated levels of target compounds or odor measured during ground intrusive activities. In general, a tiered approach to site conditions with corresponding response actions will be implemented during the air monitoring program. The three tiers of site conditions are defined as follows.

- **Alert Level 1.** Normal or ambient air-conditions where all target concentrations are less than the Alert Limit.
- **Alert Level 2.** Concentration of at least one target is equal to or greater than Alert Limit, but less than the Action Limit.
- **Action Level.** Concentration of at least one target is equal to or greater than the Action Limit.

The contingency plan will rely on real-time data generated from the fixed-station monitoring, odor intensity monitoring, and meteorological monitoring. These data sources will be evaluated together in order to make appropriate decisions concerning site conditions and potential control measures.

An explanation of the notification system, specific conditions, and response actions for VOCs, RPM_{10}, and odor intensity are presented below.

3.1 VOCs

TVOC concentrations in air will be measured and recorded by fixed-station monitors. Figure 4 presents the TVOC decision diagram that will be used to determine the appropriate site condition based on contaminant concentrations. Alert Level 1 site conditions will be in effect when the TVOC concentration is less than the Alert Limit (3.7 ppm).

Under an Alert Level 1 site condition, each organic vapor analyzer located at the fixed monitoring stations will collect and analyze a TVOC sample at a frequency of one sample per minute.

A preliminary Alert Level 2 site condition will occur if the TVOC concentration measured at a fixed station is greater than or equal to the Alert Limit (3.7 ppm) but less than the Action Limit (5.0 ppm). The construction manager, National Grid, and the air-monitoring contractor will be notified of elevated measurements and a possible Alert Level 2 site condition.

At this time, the upwind and downwind concentrations will be compared to determine if the preliminary Alert Level 2 site condition is due to site activities. If downwind TVOC concentrations are greater than upwind concentrations, then it will be assumed that the preliminary site condition is due to site activities.

If the above condition is true, then an Alert Level 2 site condition will be verified. Under a verified Alert Level 2 site condition, a contingency meeting attended by the air-monitoring consultant, National Grid, NYSDEC or NYSDOH representatives, and the construction manager will be held to determine appropriate response actions. This meeting will be held within 60 minutes of the Alert Level 2 site condition verification. Possible Alert Level 2 response actions are listed in Table 1. The site will remain in Alert Level 2 as long as the TVOC concentration is between 3.7 ppm (Alert Limit) and 5.0 ppm (Action Limit), based on 15-minute averages.

If average TVOC concentrations increase to greater than the Action Limit of 5.0 ppm, then the site will enter into an Action Level site condition. An Action Level site condition will remain in effect if either of the following conditions are true.

- The average TVOC concentration, measured over a 15-minute period, is greater than or equal to 5.0 ppm (Action Limit)
- The instantaneous TVOC concentrations are greater than 25 ppm

Under an Action Level site condition, all construction activities will be halted. A meeting attended by the air monitoring consultant, NYSDEC or NYSDOH representatives, National Grid, and the construction manager will be held within 60 minutes of the Action Level notification to determine appropriate response actions. Possible Action Level corrective measures/actions are listed in Table 1. After appropriate corrective measures/actions are taken, work activities may resume provided that the TVOC concentration at the site perimeter is no more than 5 ppm above background for the 15-minute average.

If average TVOC concentrations fall below the Action Limit, then the site will be returned to an Alert Level 2 site condition, at which time work activities may resume. The Alert Level 2 site condition will remain in effect as long as the following condition is true.

- The 15-minute average concentration for TVOCs is greater than 3.7 ppm (Alert Limit) and less than 5.0 ppm (Action Limit).

The site will return to Alert Level 1 site condition if the following condition is true.

- The 15-minute average concentrations for TVOCs at each of the fixed monitoring stations are less than 3.7 ppm (Alert Limit).

Specific TVOC target concentrations for Alert Level 1, Alert Level 2, and Action Level site conditions are summarized in Table 2.

3.2 Respirable Particulate Matter

RPM_{10} concentration in air will be measured and recorded by the fixed-station monitors. Figure 5 presents the RPM_{10} decision diagram. Alert Level 1 site condition will be in effect when the downwind 15-minute average RPM_{10} concentration is less than 100 $\mu g/m^3$ than the current average upwind conditions (Alert Limit). A preliminary Alert Level 2 site condition will occur if the RPM_{10} concentration at a fixed station is greater than 100 $\mu g/m^3$. At this time, the construction manager, National Grid, and the air-monitoring contractor will be notified of elevated measurements and a possible Alert Level 2 site condition. Under a preliminary Alert Level 2 site condition, upwind and downwind RPM_{10} concentrations will be compared to determine if the preliminary Alert Level 2 site condition is due to site activities. If downwind RPM_{10} concentrations are 100 ug/m^3greater than upwind concentrations (Alert Limit), then it will be assumed that the preliminary Alert Level 2 site condition is due to site activities.

If elevated RPM_{10} concentrations are found to be related to site activities, then RPM_{10} measurements will be collected over a 15-minute period and averaged. If the 15-minute average RPM_{10} concentration is equal to or greater than 100 $\mu g/m^3$ above the upwind RPM_{10} (Alert Limit), then the Alert Level 2 site condition will be verified.
The Alert Level 2 site condition will remain in effect as long as the average RPM_{10} concentration is greater than or equal to 100 $\mu g/m^3$ above upwind conditions (Alert Limit), and less than or equal to 150 $\mu g/m^3$(Action Limit). Under a verified Alert Level 2

site condition, dust suppression techniques must be implemented. At this point, routine monitoring continues and 15-minute averages continue to be evaluated. Work may continue with dust suppression techniques provided that downwind RPM_{10} levels do not exceed 150 ug/m^3 above the upwind level (Action Limit) and provided that no visible dust is migrating offsite from the work area. A contingency meeting attended by the air monitoring contractor, National Grid, the NYSDEC or NYSDOH representatives, and the construction manager will be held within 60 minutes of the verified Alert Level 2 site condition if the condition is not mitigated by dust suppression techniques. Possible response actions for dust control are listed in Table 1.

An Action Level site condition will go into effect if the average 15-minute RPM_{10} concentration exceeds 150 µg/m^3 above the current average upwind concentration (Action Limit). Under an Action Level site condition, work must be stopped and a meeting attended by the air monitoring contractor, National Grid, the NYSDEC or NYSDOH representatives, and the construction manager will be held within 60 minutes of the Action Level notification to determine appropriate response actions. Possible Action Level response actions for RPM_{10} are listed in Table 1. Work may resume provided that dust suppression measures and other controls are successful in reducing the downwind RPM_{10} concentration to within 150 ug/m^3 of the upwind level and in preventing visible dust migration.

Specific RPM_{10} target concentrations for Alert Level 1, Alert Level 2, and Action Level site conditions are summarized in Table 2.

3.3 Visible Dust

In addition to measured RPM_{10} levels, visible dust will be monitored. If visible airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind RPM_{10} levels do not exceed 150 µg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

3.4 Odor

Odors from MGP sites are generally negligible due to surface soil cover of contaminated materials. However, excavation work may expose these materials and odors may become detectable.

This may cause concern among the nearby community, visitors to the site, and on-site workers regarding potential health risks. Health risks or the potential for health risks do not rely strictly on detectable odors. A detectable odor does not indicate health risks. However, controlling odor emissions from a site can allay public fears about health risks and provide additional means of controlling nuisance emissions during remediation activities.

For MGP sites, the characteristic odor during remediation has been attributed primarily to naphthalene and indene, although additional compounds may contribute to the overall odor. (Pure naphthalene has the characteristic odor of mothballs). EPA provides a threshold for the initial presentation of naphthalene odors at 440 $\mu g/m^3$ (ATSDR, 1995; Amoore and Hautala, 1983). There is no reported odor threshold for indene. Odors emanating from the site will be monitored for general odor intensity, as described below.

Odor intensity levels will be noted and recorded during as needed perimeter walk-around monitoring. Intensity levels will be based on the 8-point n-butanol scale as adapted from ASTM E544-99.

Figure 6 illustrates the odor decision diagram. An Alert Level 1 site condition will remain in effect if the odor intensity, based on the 8-point n-butanol scale, is less than 3 (Action Limit). An Action Level site condition will go into effect when odor intensities are greater than 3, based on the 8-point n-butanol scale, or there are odor complaints from the public.

If an Action Level site condition, due to odor, is verified, then a meeting attended by the air monitoring contractor, National Grid, NYSDEC or NYSDOH representatives, and the construction manager will be held within 60 minutes of the Action Level to determine appropriate response actions. Possible Action Level responses are listed in Table 1.

3.5 Hydrogen Cyanide

Hydrogen cyanide will be monitored on the perimeter of the site if cyanide-containing material (e.g. purifier waste) is encountered during excavation or work place monitoring detects confirmed levels of cyanide. Sampling will be performed every fifteen minutes if sulfur odor or suspected purifier material is encountered. Measurements will be made downwind, and will be recorded into the field notebook. In the event that hydrogen cyanide is detected, the following procedures will be implemented:

Hydrogen Cyanide Gas Air Monitoring Plan

Response Level	Actions
>1 ppm for 15-minute average using real-time meter (Alert Level 2)	Run Dräger tubes Continue monitoring with real-time meter Continue work if Dräger tube for hydrogen cyanide reads <0.5 ppm
>0.5 ppm on Dräger tube (Alert Level 3)	Stop work and move (with continuous monitoring meter) at least 25 feet up-wind from excavation or until continuous monitoring meter registers <1 ppm Run Dräger hydrogen cyanide tube and re-evaluate activities Continue monitoring with real-time meter May resume work if Dräger tube for cyanide reads <0.5 ppm
> 1 ppm for 15-minute average using real-time meter and < 0.5 ppm on Dräger tube	Run Dräger using hydrogen cyanide gas tube and confirm <0.5 ppm concentration Continue monitoring with real-time meter Run Dräger tube using sulfur dioxide, hydrogen sulfide and phosphine tubes to evaluate potential interference Recalibrate the real-time meter and continue to monitor the work zone.

NOTE: The ACGIH Threshold Limit Value (TLV) for Hydrogen Cyanide is 4.7 ppm.

4. Alternate Monitoring Procedures

The procedures noted above are directed towards the monitoring of perimeter air during the conduct of significant ground intrusive activities. Significant ground intrusive activities are those excavations on the site where there is reasonable expectation of encountering MGP-impacted materials. Where appropriate, an alternative level of monitoring which is in compliance with NYSDOH CAMP Guidance in DER-10 and equally protective of the community may be employed. Based on specific field activities, a decision will be made as to the appropriate level of monitoring. Specific activities could include trenching and surface restoration activities for the installation of the catch basin piping in Short Alley or additional geotechnical or environmental borings deemed necessary during the performance of the remedy. For these activities, monitoring may be performed using equipment and procedures similar to those used at the site during previous investigation activities as described below.

Real-time air monitoring for TVOCs and suspended particulates will be conducted upwind and downwind of the work area at the site perimeter. Real-time monitors will operate during periods of excavation/construction activity during working hours only.

Each alternative air monitoring station would include the following:

1. Station Tripod
2. An organic vapor analyzer
3. A particulate monitor

Instruments will be positioned to monitor from the breathing zone.

Each monitoring station will continuously measure and record TVOCs and RPM_{10}. All TVOC and RPM_{10} will be stored in dataloggers located within each monitoring station. Data from each piece of equipment will be downloaded daily at the completion of excavation/construction activities and stored on a central computer system. The location of each station, the work zone, and the wind direction will be noted daily. At each monitoring station location, the 15-minute average value of TVOC and RPM_{10} will be recorded. The 15-minute average value of TVOC and RPM_{10} data from the upwind and downwind station will be compared and resultant downwind concentration will be calculated and recorded.

If cyanide materials are encountered during excavation or work area monitoring detects a confirmed measurement of cyanide, cyanide will be monitored at the perimeter downwind. To monitor cyanide (as hydrogen cyanide gas), a real-time hand-held meter in conjunction with Dräger tubes will be used. Types of continuously monitoring equipment include the V-RAE by Rae Systems and the Mini-Warn by Dräger Safety Systems and are available from rental equipment suppliers. Due to potential interference from sulfur compounds, hydrogen sulfide gas (H_2S) will also be monitored for comparison to the hydrogen cyanide gas levels detected. Hydrogen cyanide gas detections will also be confirmed with Dräger tubes due to this interference.

Tables

Table 1
Levels and Response Actions
CAMP Work Plan for
Saratoga Springs (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Site Condition	Response Action
Alert Level 1	▪ Normal Site Operations – No Response Action Required
Alert Level 2	▪ Establish trend of data and determine if evaluation/wait period is warranted ▪ Temporarily stop work ▪ Temporarily relocate work to an area with potentially lower emission levels ▪ Apply water to area of activity or haul roads to minimize dust levels ▪ Reschedule work activities ▪ Cover all or part of the excavation area ▪ Apply VOC emission suppressant foam over open excavation areas ▪ Slow the pace of construction activities ▪ Change construction process or equipment that minimize air emissions ▪ Install a perimeter barrier fence
Action Level	▪ Encapsulate construction area and treat air exhaust ▪ Perform work during cold weather ▪ Cease construction activities ▪ Re-evaluate air monitoring work plan

Notes:
The bulleted response actions specified under each site condition can be implemented in any order that is most appropriate under the existing site conditions.

Table 2
Target Concentrations for Site Conditions
CAMP Work Plan for
Saratoga Springs (Lake Ave.) Non-Owned Former MGP Site
Saratoga Springs, New York

Target	Alert Limit	Action Limit	Site Condition			
			Alert Level 1	Preliminary Alert Level 2	Alert Level 2	Action Level
Total VOC (PID)-ppmv	3.7	5.0	[C]<3.7	3.7<=[C]<=5.0	3.7<=[C_{avg}]<=5.0	[C_{avg}]>5.0
RPM_{10}-ug/m^3	100	150 greater than upwind	[C]<100	100<=[C]<=150	100<=[C_{avg}]<=150	[C_{avg}]>150
Odor (n-butanol scale)	NA	3	OI<3 and No Odor Complaints	NA	NA	OI>=3 or Odor Complaints
Odor (naphthalene) - ug/m^3	NA	440	[C]<440	N/A	N/A	[C_{avg}]>440
Hydrogen Cyanide - ppmv	NA	1	[C_{avg}]<1	[C_{avg}]>1	[C_{avg}]>1 (meter) and [C]>=0.5 (Drager Tube)	[C_{avg}]>1 (meter) and [C]>=0.5 (Drager Tube)

Notes:
VOC = Volatile Organic Compound
PID = Photoionization Detector
RPM_{10} = Respirable Particulate Matter
ppmv - parts per million volume
ug/m3 - micrograms per cubic meter
[C] = Concentration of target collected from a discrete sample.
[C_{avg}] = 15-minute average concentration of target.
NM = Target is not measured during this site condition.
OI = Odor Intensity based on the 8-point n-butanol scale adapted from ASTM E544-99.
Odor measurements made over a 15 minute interval.
NA - Not applicable, odor intensity will be either an Alert Level 1 or Action Level; there is no Alert Level 2 for odc

Figures

SOURCE:
1. Wind rose for the period January 1st through December 31, 2008. Wind direction data were digitized from: http://www.weatherunderground.com Station ID: KGFL

2. Orthophoto obtained from New York State Interactive Mapping Gateway (http:/.www1.nysgis.state.ny.us/MainMap.cfm) photo date: April 2007, accessed 2/26/09.

0 375 750 1,500
SCALE, FEET

SARATOGA SPRINGS (LAKE AVE.)
NON-OWNED FORMER MGP SITE
COMMUNITY AIR MONITORING PROGRAM
SARATOGA SPRINGS, NEW YORK

nationalgrid

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SITE LOCATION AND POTENTIAL SENSITIVE RECEPTORS

Proj. 034400-2 | August 2009 | Figure 1

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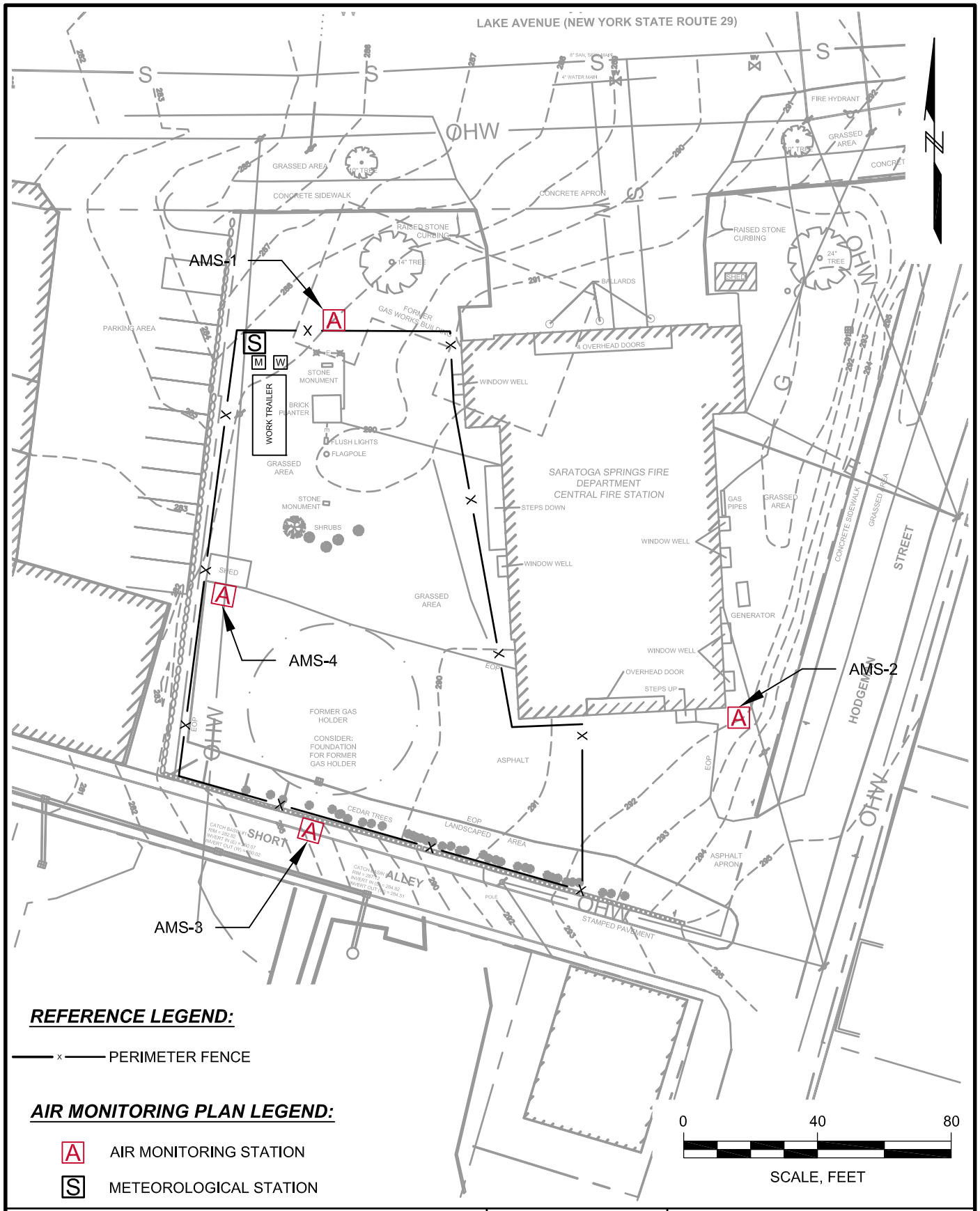

REFERENCE LEGEND:

PERIMETER FENCE

AIR MONITORING PLAN LEGEND:

A — AIR MONITORING STATION

S — METEOROLOGICAL STATION

SARATOGA SPRINGS (LAKE AVE)
NON-OWNED MGP SITE
COMMUNITY AIR MONITORING PROGRAM
SARATOGA SPRINGS, NEW YORK

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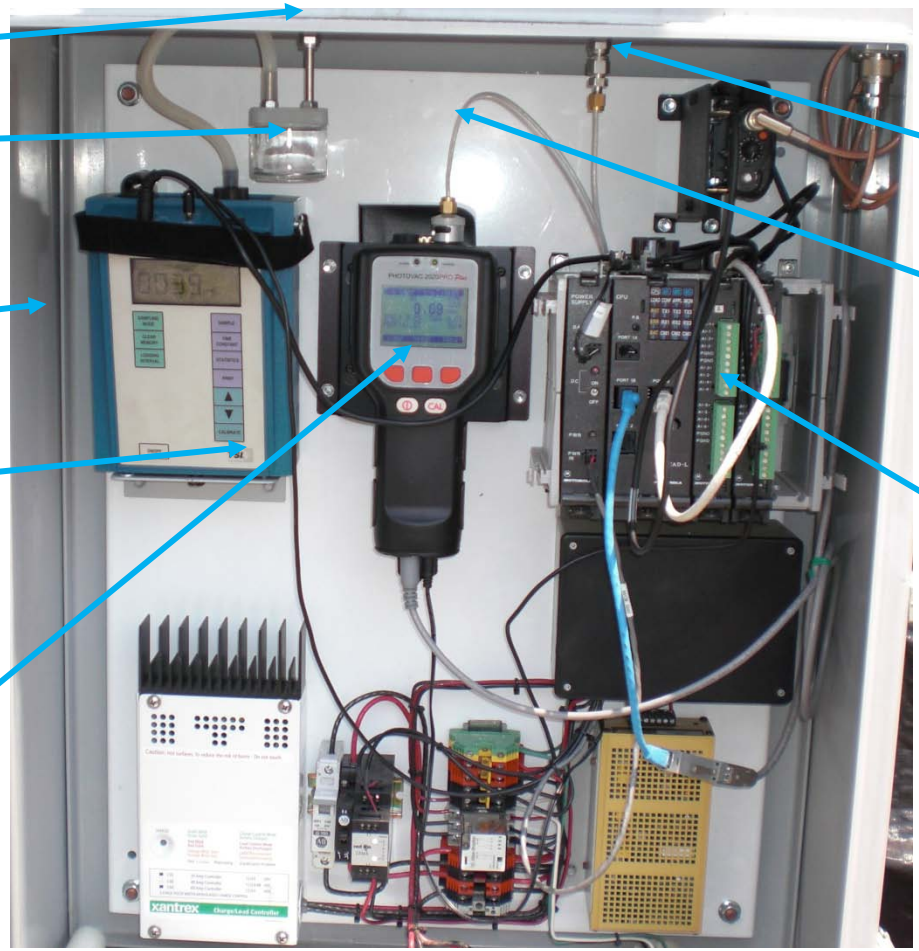
SITE MAP AND AIR MONITORING STATION LOCATIONS

Project 034400-2 | August 2009 | Figure 2

H:\TECH\project\Nimo\Saratoga Springs\2009 Remediation and Oversight\RAWP\CAMP\ FIGURE 2 SITE MAP AND AIR MONITORING STATION LOCATIONS.dwg \Aug 26, 2009



1. Station enclosure
2. Organic Vapor Monitor (OVM)
3. OVM sample inlet
4. OVM sample inlet tubing
5. Dusttrak™ Aerosol Monitor portable real-time aerosol monitor
6. Dusttrak™ sample inlet with PM-10 impactor
7. DataRAM sample tubing with in-line condensor
9. Data communications device
10. Solar Panel

Note: Figure depicts an AirLogics Light, LLC Perimeter Air Monitoring System as an example and may not be representative of the actual system or components that will be employed at the Site

SARATOGA SPRINGS (LAKE AVE) NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

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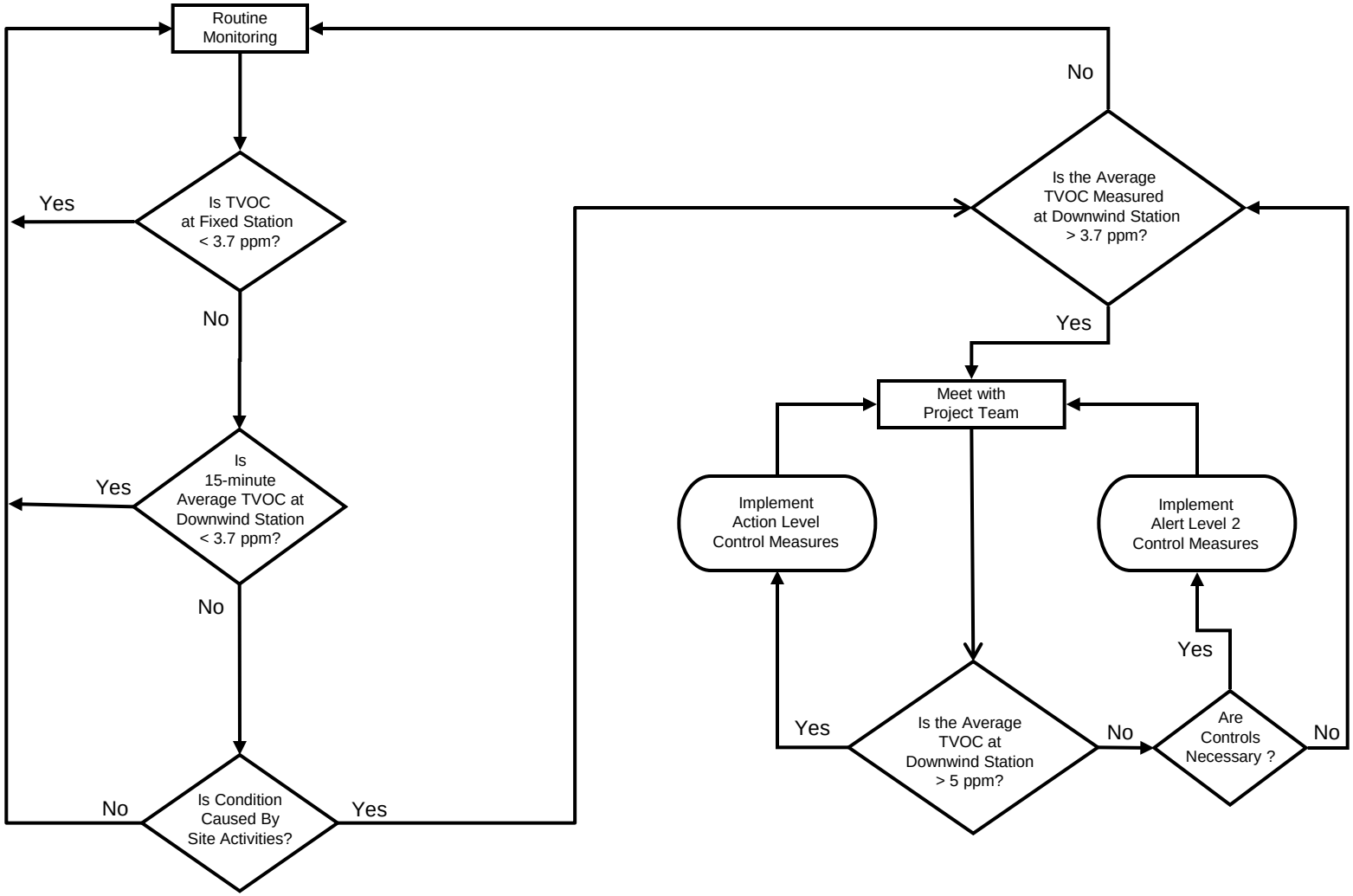
EXAMPLE FIXED STATION INTERNAL COMPONENTS

PROJECT 034400-2 | AUGUST 2009 | Figure 3



TVOC – Total Volatile Organic Compound

ppm – parts per million

SARATOGA SPRINGS (LAKE AVE) NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

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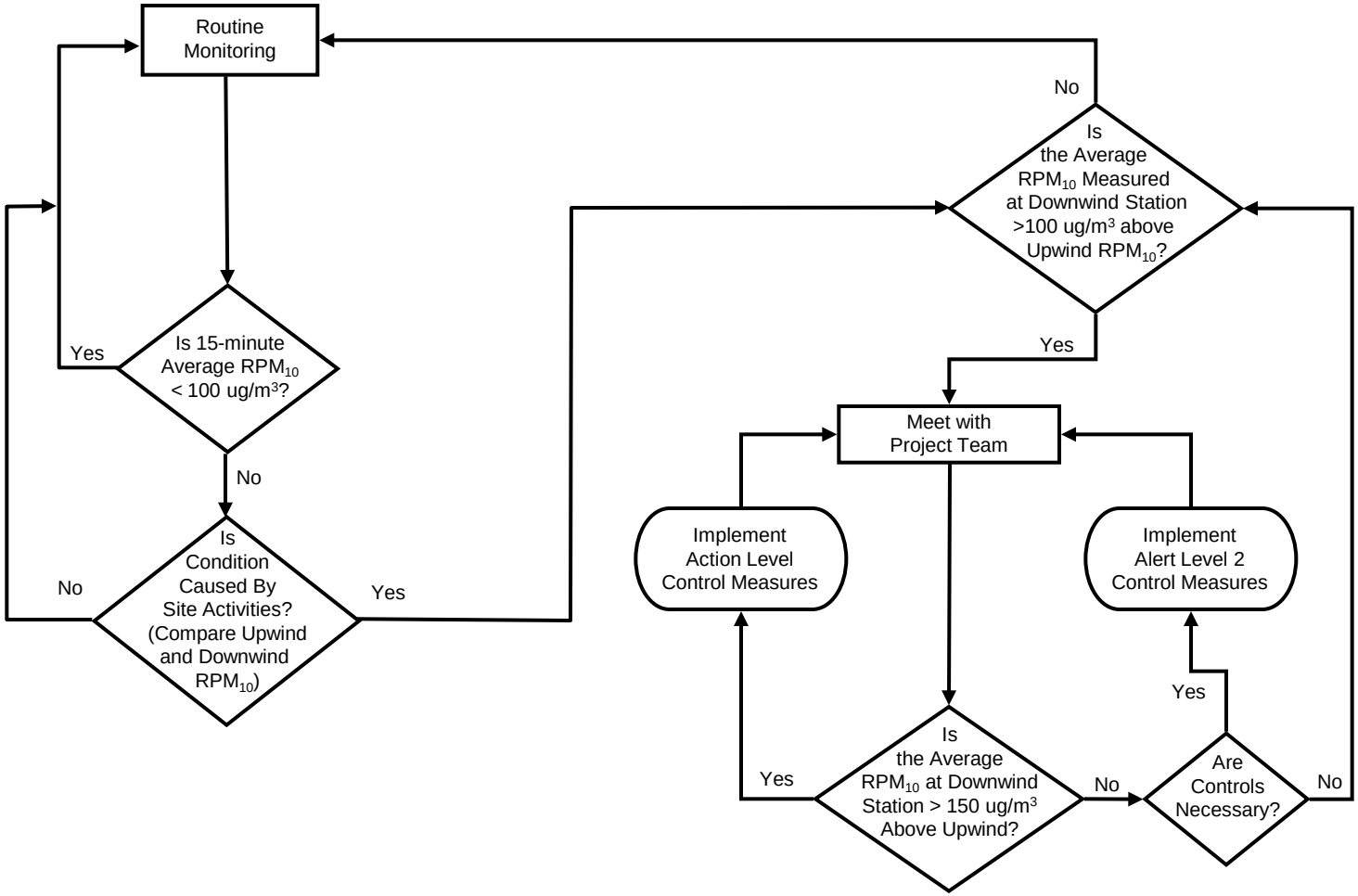
TVOC DECISION DIAGRAM

PROJECT 034400-2 | AUGUST 2009 | Figure 4

H:\WPROC\Project\NationalGrid\Saratoga\RAWP 2009\Final RAWP\Appendix F\Saratoga CAMP Figures 3 thru 6.ppt



RPM_{10} – Respirable Particulate Matter

ug/m^3 – micrograms per cubic meter

SARATOGA SPRINGS (LAKE AVE) NON-OWNED FORMER MGP SITE
SARATOGA SPRINGS, NEW YORK

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RESPIRABLE PARTICULATE MATTER DECISION DIAGRAM

PROJECT 034400-2 | AUGUST 2009 | Figure 5

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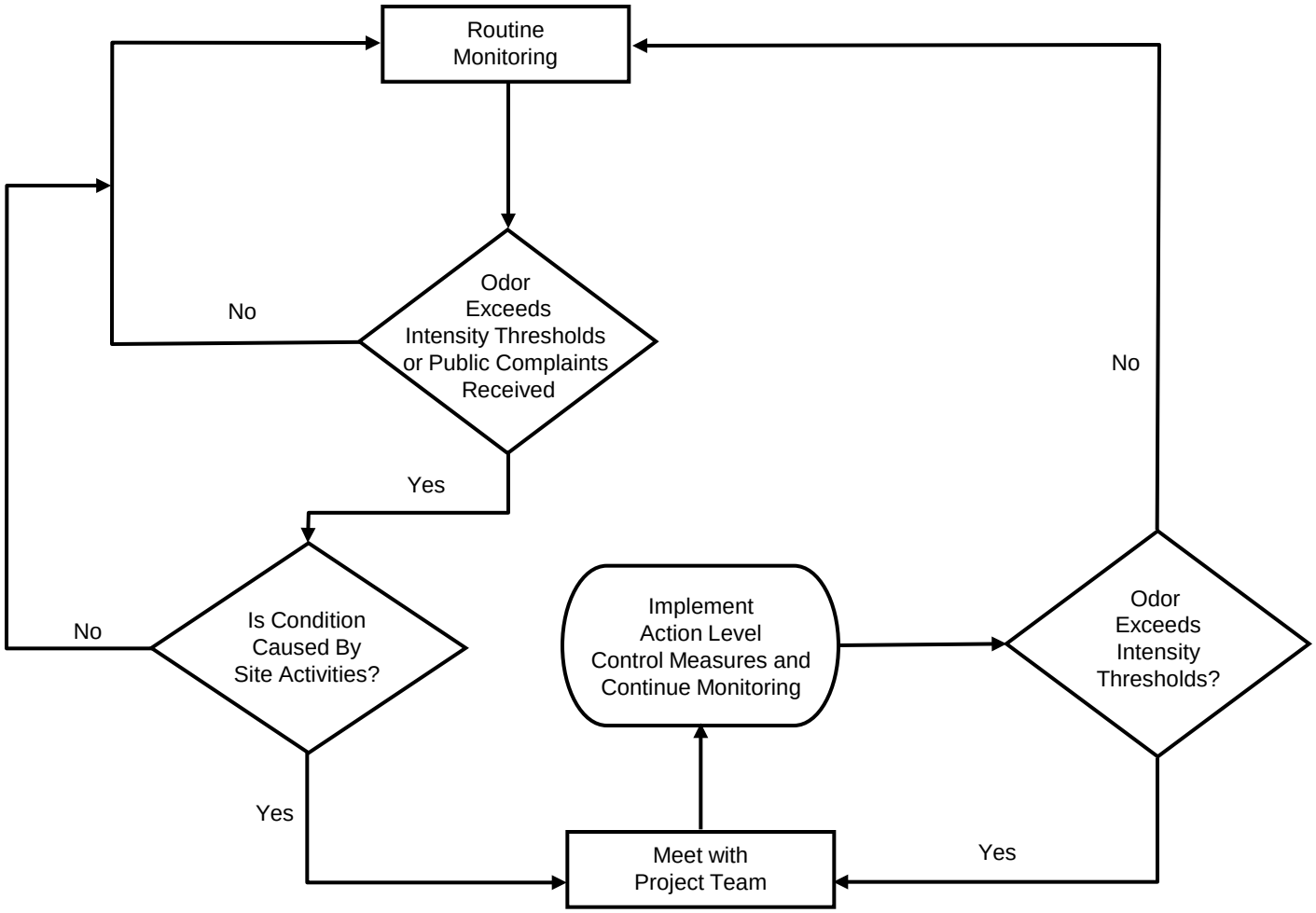

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SARATOGA SPRINGS, NEW YORK

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ODOR DECISION DIAGRAM

PROJECT 034400-2 | AUGUST 2009 | Figure 6

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Appendix F

Inspection Form Template

INSPECTION FORM

		Date:	
Project :	Saratoga Springs (Lake Ave) Former MGP Site	**Report No.**	
Property:	Central Fire Station 60 Lake Avenue Saratoga Springs, NY	**Page:**	1 of
Client :	National Grid	**Proj. No.**	

Time of Arrival: **Departure:** **Weather:**

GEI Representatives

Purpose of Site Visit: Annual Inspection or Emergency Inspection (if emergency indicate event that required an inspection).

Observations

NOTES:
Inspections should be made a minimum once a year and within 5 days of an emergency, such as a natural disaster or an unforeseen failure or damage to the building occurs)

Observations should answer the following questions, the extent practicable.

1. Are the Institutional Controls in place, performing properly, and remain effective?
2. Have there been any changes to the property since the last inspection?
3. Has ownership of the property changed since the last inspection?

Attach applicable pictures at the end of this report.

By:	**Reviewed By:**

GEI Consultants