47 Utica Street ERP Site

MADISON COUNTY, NEW YORK

Final Engineering Report

NYSDEC Site Number: E727011

Prepared for:

Madison County
138 North Court Street
Wampsville, New York 13163

Prepared by:

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JANUARY 2015

REVISED: JUNE 2015

CERTIFICATIONS

I, Wayne E. McFarland, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Interim Remedial Measures were implemented and that all construction activities were completed in substantial conformance with the Department-approved Interim Remedial Measure Work Plans.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Interim Remedial Measure Work Plans and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant to ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

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, Wayne E. McFarland, of GHD Consulting Services Inc., am certifying as Owner's Designated Site Representative for the Site.

STATE OF NEW YORK
WAYNE EDWARD McFARLAND
No. 59177
LICENSED PROFESSIONAL ENGINEER

59177	6/9/15	
NYS Professional Engineer #	Date	Signature

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LIST OF ACRONYMS

Acronym	Definition
AST	Aboveground Storage Tank
CAMP	Community Air Monitoring Plan
COC	Certificate of Completion
CPP	Citizen Participation Plan
DER	Department of Environmental Remediation
DOH	Department of Health
ECL	Environmental Conservation Law
ECs	Engineering Controls
EE	Environmental Easement
EPA	Environmental Protection Agency
ERP	Environmental Restoration Program
FER	Final Engineering Report
GHD	GHD Consulting Engineers, LLC or GHD Consulting Services Inc.
HASP	Health and Safety Plan
ICs	Institutional Controls
IRM	Interim Remedial Measure
LLC	Limited Liability Corporation
NYCRR	New York Code of Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OSHA	Occupational Safety and Health Administration
QAPP	Quality Assurance Project Plan
RAA	Remedial Alternatives Analysis
RAOs	Remedial Action Objectives
RI	Remedial Investigation
ROD	Record of Decision
SAC	State Assistance Contract
S/MMP	Soil/Materials Management Plan
SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
SWPPP	Stormwater Pollution Prevention Plan
SWRNA	S&W Redevelopment of North America, LLC
S&W	Stearns & Wheler
TCL	Target Compound List
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

Madison County (the County) entered into a State Assistance Contract (SAC) with the New York State Department of Environmental Conservation (NYSDEC) in October 2005, to investigate and remediate an approximately 0.282-acre property located in the Village of Hamilton, Madison County, New York. The property was remediated to Commercial use.

The Site is located in the Village of Hamilton, County of Madison, New York and is identified as Tax Parcel 153.83-1-13 on the Village of Hamilton Tax Map. The Site is situated on an approximately 0.282-acre area bounded by commercial properties to the north and south, Utica Street to the east with mixed residential and commercial properties to the east, and residential properties to the west (Figures 1 and 2). The boundaries of the Site are fully described in Appendix A – Survey Map, Metes and Bounds.

An electronic copy of this FER with all supporting documentation is included as Appendix B. An electronic copy of the NYSDEC-approved Site Management Plan (SMP) with all supporting documentation is included as Appendix C.

2.0 SUMMARY OF SITE REMEDY

2.1 REMEDIAL ACTION OBJECTIVES

Based on the results of the Remedial Investigation (RI) and Interim Remedial Measures (IRMs), the following Remedial Action Objectives (RAOs) were identified for this Site.

2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.

2.1.2 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.1.3 Soil Vapor RAOs

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or potential for, soil vapor intrusion into the current on-Site building (if it becomes occupied) or into future buildings constructed at the Site.

2.1.4 Surface Water RAOs

There are no surface water bodies on or immediately adjacent to the Site, and the RI did not indicate that Site-related contaminants have impacted any off-Site surface water bodies. As a result, no remedial action was undertaken with respect to surface water.

2.1.5 Sediment RAOs

Aquatic sediments do not exist on or immediately adjacent to the Site, and the RI did not indicate that Site-related contaminants have impacted any off-Site sediments. As a result, no remedial action was undertaken with respect to surface water.

2.2 DESCRIPTION OF SELECTED REMEDY

The Site was remediated through completion of two Interim Remedial Measures (IRMs) to address specific contamination sources prior to completing the Remedial Investigation (RI) and Remedial Alternatives Analysis (RAA). Based on the implementation of the IRMs and the findings of the investigation of the Site, the NYSDEC determined that additional remedial actions were not required under the current Site conditions. As a result, No Further Action was the remedy selected by the NYSDEC in the Record of Decision (ROD) dated March 18, 2014. It is also noted in the ROD that this No Further Action remedy includes continued operation and implementation of IC/ECs which include: green remediation principles and techniques, maintaining a Site cover system, restriction of groundwater use, compliance with redevelopment as a commercial use property, and a Site Management Plan for monitoring and future redevelopment. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the elements of the IRMs completed at the Site and the IC/ECs required for protection of human health and the environment:

IRM Elements Completed:

1. Excavation of soil/fill exceeding Commercial Use SCOs for semi-volatile organic compounds (SVOCs) in a discrete area west of the Site building to a depth of 1-foot below ground surface (bgs);
2. Decommissioning and removal of two (2) underground storage tanks near the southwestern corner of the Site building;
3. Removal of the former fuel dispenser island, supply lines, and associated soil to a depth of 2-feet;
4. Removal of a hydraulic lift and associated hydraulic fluid tank from inside the Site building;
5. Removal of nine (9) 55-gallon drums from inside the Site building;
6. Investigation and removal of a suspected waste oil pipe from inside the Site building;
7. Investigation and cleaning or two (2) floor sumps located inside the Site building;
8. Removal of oil stains from building floor and walls;
9. Removal of an above ground fuel oil storage tank located inside the Site building;
10. Decommissioning of all on-Site and off-Site groundwater monitoring wells and soil vapor monitoring wells, with the exception of the one located within the Site building since access could not be obtained at the time of decommissioning.

Selected Remedy Institutional Controls and Engineering Controls (ICs/ECs):

1. A Site cover currently exists and will be maintained to allow for commercial use of the Site (Figure 3). Any Site redevelopment will maintain a soil cover, which may consist of either structures, pavement, and/or sidewalks comprising the Site development or a soil cover in areas of the Site where the

upper one foot of exposed surface soil exceeds the applicable SCOs. Where a soil cover is required it will be a minimum of one foot of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover will be placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the Site will meet the requirements for the identified Site use as set forth in 6 NYCRR Part 375-6.7(d);

2. Imposition of institutional controls in the form of an Environmental Easement for the Site that:

    - Requires the remedial party or Site owner to complete and submit to the NYSDEC a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3);

    - Allows the use and development of the Site for commercial or industrial uses, as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

    - Restricts the use of groundwater as a source of potable or process water, without the necessary water quality treatment as determined by the NYSDOH or Madison County DOH; and

    - Requires compliance with the Department approved Site Management Plan.

3. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes the following:

    a. An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the Site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

- (1) Institutional Controls in the form of the Environmental Easement discussed in paragraph 2 above; and
- (2) Engineering controls consisting of the soil cover discussed in paragraph 1 above.

This plan includes, but may not be limited to:

- An Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- A provision for further investigation to refine the nature and extent of contamination within the footprint of the existing building, where access was previously hindered, if and when it is demolished;
- A provision for removal or treatment of the source area located under the existing building, if and when it is demolished;
- Descriptions of the provisions of the Environmental Easement including any land use and groundwater use restrictions;
- A provision for the evaluation of the potential for soil vapor intrusion should the use of the on-Site building change and for any buildings developed on the Site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- Provisions for the management and inspection of the identified engineering controls;
- Maintaining Site access controls and NYSDEC notification; and
- The steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

b. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- Installation , development, and sampling of groundwater monitoring wells;
- Monitoring of groundwater to assess the performance and effectiveness of the remedy;
- A schedule of monitoring and frequency of submittal to the Department; and
- Monitoring for vapor intrusion for any buildings as may be required by the Institutional and Engineering Control Plan discussed above.

4. Green remediation principles and techniques will be implemented to the extent feasible in the Site management of the remedy as per DER-31. The major green remediation components are as follows:
   - Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
   - Reducing direct and indirect greenhouse gases and other emissions;
   - Increasing energy efficiency and minimizing use of non-renewable energy;
   - Conserving and efficiently managing resources and materials; and
   - Reducing waste, increasing recycling, and increasing reuse of materials which would otherwise be considered a waste.

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The remedy for the Site was performed as a series of Interim Remedial Measures, and no operable units or separate construction contracts were performed. The Site IRMs were completed by various contractors under the oversight of various consultants, as described in the following section.

The following reports can be referred to for a more detailed description of previous actions taken at the Site:

- Interim Remedial Measures Work Plan, Stearns & Wheler, LLC, August 2005;
- Interim Remedial Measures Report, Stearns & Wheler, LLC, May 2006;
- Remedial Investigation Work Plan, Stearns & Wheler, LLC, May 2006;
- Interim Remedial Measures-2 Work Plan, Stearns & Wheler, June 2007;
- Interim Remedial Measures-2 Report, Stearns & Wheler, February 2008;
- Supplemental Sampling Report, S&W Redevelopment, LLC, March 2009;
- Well Decommissioning Letter Report, GHD Consulting Engineers, LLC, June 2012;
- Temporary Well Installation and Sampling Letter Report, GHD Consulting Engineers, LLC, December 2014;
- Remedial Alternatives Analysis, GHD Consulting Engineers, LLC, January 2015; and
- Site Management Plan, GHD Consulting Engineers, LLC, January 2015.

3.1 INTERIM REMEDIAL MEASURES

3.1.1 NYSDEC Spills Program (2000 – 2005)

Initial remedial activities conducted at the Site included removal of the fuel dispensers and five (5) underground storage tanks (USTs) in November 2000, under the direction of NYSDEC. During tank removal activities, grossly impacted soil was encountered adjacent to the USTs. Based on these field observations, the NYSDEC Spills Hotline was contacted and Spill File Number 00-09395 was assigned to the release.

Between 2000 and 2005, Nature's Way Environmental Consultants and Contractors, Inc. (Nature's Way) investigated and monitored the Site by installing and sampling seven (7) on-Site and five (5) off-Site groundwater monitoring wells. The County took title to the property in 2002, during the investigation phase.

The information and certifications made in the *Preliminary Subsurface Investigation Report* prepared by Nature's Way (April 2002) were relied upon to prepare this report and certify that the remediation requirements for the Site have been met.

3.1.2 Interim Remedial Measure (2005)

Based on the residual groundwater contamination identified under the NYSDEC Spills Program, the County applied to get the Site entered into the Environmental Restoration Program (ERP). The application was approved by the NYSDEC on May 26, 2005. The County, as an ERP Volunteer, agreed with NYSDEC that the initial action under the ERP would be to remove the remaining 550 gallon UST at the southwestern corner of the building as an Interim Remedial Measure (IRM). Stearns & Wheler Companies (S&W) prepared an IRM Work Plan for the County in August 2005, which outlined the approach for removing the UST and for excavating petroleum impacted soils encountered during its excavation.

The IRM was conducted in October 2005, following NYSDEC approval of the IRM Work Plan. As the 550 gallon UST was being removed, a 275 gallon UST was discovered adjacent to it. The second UST was also removed. In total, two (2) USTs and approximately 45 tons of petroleum impacted soil were removed as part of this initial IRM.

Confirmatory soil samples were taken from the tank excavation side walls and indicated that the IRM activities had removed the majority of potential source material associated with the two (2) USTs. The IRM Report (S&W, February 2006) noted that the northern and western limits of the UST excavation stopped at the southern sidewall of the building and western Site boundary, respectively. As a result, the report concluded that small amounts of residual petroleum impacts potentially remain at these locations.

The IRM activities discussed above were followed by the initial phase of Remedial Investigation (RI) activity in September and October 2006, following NYSDEC approval of the *Remedial Investigation Work Plan* (S&W, May 2006).

The information and certifications made in the *Interim Remedial Measures Report* prepared by S&W (May 2006) were relied upon to prepare this report and certify that the remediation requirements for the Site have been met.

3.1.3 Interim Remedial Measure (2007)

Based on the initial IRM and RI findings, additional IRM activities were proposed in an *Interim Remedial Measures-2 Work Plan* (S&W, June 2007), and the IRM-2 was completed at the Site in August 2007 in order to address other potential contamination sources. IRM-2 activities included:

- removal of one (1) 275 gallon above ground fuel oil tank and its contents from inside the building;
- removal of a section of waste oil pipe that ran from the west wall of the building to the former UST area and plugging of the pipe's floor penetration with cement;
- removal of the former hydraulic lift and contained hydraulic fluid;
- removal of the former pump island, including soil and piping adjacent to it;
- cleaning and plugging with cement a floor sump (Bay 2) and dry sump (Bay 3);
- removal of surface soil from two (2) discrete areas outside the building where sample results identified relatively elevated levels of polycyclic aromatic hydrocarbons (PAHs);
- steam cleaning of wall and floors of Bays 2 and 3 to remove oily residue; and
- removal of nine (9) 55 gallon drums.

The results of the 2007 IRM-2 activities were presented in the *Interim Remedial Measure – 2 Report* (S&W, January 2008), and included the removal of approximately 15 tons of soil and debris related to past Site operations, one (1) remaining AST and its contents, and nine (9) drums and their contents from the Site. Analytical results from the IRM-2 indicated that small amounts of residual petroleum impacts potentially remain at discrete locations of the Site.

The IRM activities discussed above were followed by a supplemental phase of RI activity between August and November 2007, following NYSDEC approval of the *Supplemental Remedial Investigation Work Plan* (S&W, June 2007).

The information and certifications made in the *Interim Remedial Measures – 2 Report* prepared by S&W (January 2008) were relied upon to prepare this report and certify that the remediation requirements for the Site have been met.

3.1.4 Supplemental Soil Excavation (2008)

In order to supplement the 2007 IRM, which identified a discrete area of soils impacted by polycyclic aromatic hydrocarbons (PAHs), the Department requested that additional soil excavation and sampling be completed. As a result, S&W Redevelopment of North America, LLC (SWRNA) completed supplemental soil excavation and sampling activities in September 2008. The supplemental activities included removal of approximately 0.3 cubic yards of soil from a discrete area (approximately 5-feet long, 1.5-feet wide, and 10-inches deep) on the west side of the Site building and collection of an end-point soil sample from the bottom of the excavation. The end point soil sample was analyzed for Target Compound List (TCL) SVOCs by Environmental Protection Agency (EPA) Method 8270.

The excavation end point soil sample identified one (1) SVOC at a concentration above Commercial Use SCOs (benzo(a)pyrene at 2.3 mg/kg). Based on these results, it was concluded that no further excavation or sampling was recommended in the discrete area west of the Site building.

The information and certifications made in the *Supplemental Sampling and Soil Excavation Letter Report* prepared by SWRNA (December 2008) were relied upon to prepare this report and certify that the remediation requirements for the Site have been met.

3.2 OPERABLE UNITS

There were no operable units as part of the remedy for the Site.

3.3 REMEDIAL CONTRACTS

There were no remedial contracts as part of the remedy for the Site.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Interim Remedial Measure Work Plans for the 47 Utica Street ERP Site (August 2005 and June 2007). All deviations from the Work Plans are discussed in Section 4.10 below.

4.1 GOVERNING DOCUMENTS

4.1.1 Site Specific Health & Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site. The HASP was included as an appendix to each of the Work Plans, and included:

- Identification of potential chemical hazards associated with Site contamination;
- Identification of potential chemical and physical hazards associated with construction work related to implementation of the Site remedy;
- A description of protective, preventative, and corrective measures to be taken to protect Site workers from hazards; and
- A description of emergency procedures and contacts.

4.1.2 Quality Assurance Project Plan (QAPP)

The QAPP was included as Appendix B of the Remedial Investigation Work Plan approved by the NYSDEC. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

4.1.3 Construction Quality

Construction Quality was managed and applied in the field and in the lab during IRM tasks, based on methodologies described in the NYSDEC-approved Work Plans. The Work Plans provided a description of the observation and testing activities that were used to monitor and confirm that the IRMs were in conformance with the remediation objectives and specifications.

These observation and testing activities included completing excavation end-point sampling in areas of UST and soil removal to confirm that impacted soils were effectively removed, collection of groundwater samples to document groundwater impacts and to delineate their extents, and collection of soil vapor samples to document soil vapor impacts and to develop requirements for future sub-slab venting systems for future on-Site buildings that will be occupied.

4.1.4 Soil/Materials Management Plan (S/MMP)

During remedial activites, soils were managed in accordance with details provided in the Work Plans. These documents set forth guidelines for handling of any soil that needed to be removed during the excavation of USTs and the fuel pump island, as well as air monitoring procedures. The documents further specified how soil brought on-Site from off-Site sources would be sampled and analyzed for characterization prior to being placed on-Site, and indicated that any material taken off-Site must be properly disposed in accordance with all applicable federal, state, and local laws.

4.1.5 Storm-Water Pollution Prevention Plan (SWPPP)

No work was performed as part of the remedial action that required following the New York State Guidelines for Urban Erosion and Sediment Control or the creation of a Site-specific Storm-Water Pollution Prevention Plan.

4.1.6 Community Air Monitoring Plan (CAMP)

A Community Air Monitoring Plan (CAMP) was included in the appendices of each of the Work Plans, and was carried out during remediation activities that created the potential for airborne release of Site contaminants. The objective of the CAMP was to provide a measure of protection for the downwind community from airborne contaminant releases, if any, that might arise as a result of intrusive activities, which included completion of soil borings, installation of groundwater and soil vapor monitoring wells, and tank removals with associated soil excavations.

Results of CAMP monitoring conducted during Site IRMs and investigation activities were included in previous reports submitted to the NYSDEC.

4.1.7 Contractors Site Operations Plans (SOPs)

The Remediation Engineer reviewed all plans and submittals for this remedial project (i.e. those listed above plus contractor and subcontractor submittals) and confirmed that they were in compliance with the IRM and RI Work Plans. All remedial documents were submitted to NYSDEC and NYSDOH in a timely manner and prior to the start of work.

4.1.8 Citizen Participation Plan

Citizen participation was conducted during remedial actions in accordance with the May 2006 Citizen Participation Plan (CPP). The objectives of the CPP were to assure an open process for the interested, and possibly affected, public so they could be a part of the decision-making process for the Site and be informed about on-Site activities and findings. The CPP contained information on locations where interested parties can obtain additional information about the remedial program for the Site and specific opportunities for public and community input into the decision-making process.

Prior to any activities being approved for the Site, Fact Sheets were mailed to the project contact list identified in the CPP, which included area residents, neighboring businesses, local public officials, municipal and state elected officials, and local media. The Fact Sheets announced that specific documents were available for public review and comment, described the proposed approaches for upcoming activities, and identified where local repositories containing pertinent documents for public review are located. A second Fact Sheet was mailed prior to activities occurring on-Site, which stated that the proposed activities had undergone the mandatory public review and comment period and that the NYSDEC/NYSDOH has approved the proposed approach. The second Fact Sheet also identified the date that the activities were to begin.

A final Fact Sheet will be mailed to the project contact list stating that this Final Engineering Report (FER) is complete and that a Certificate of Completion (COC) has been issued for the Site. This Fact Sheet will be included as an Attachment to this FER, once received.

4.2 REMEDIAL PROGRAM ELEMENTS

4.2.1 Contractors and Consultants

Remediation work began in 2000 under the Spills Program and was directed by the NYSDEC, which continued until 2005. S&W was the primary consultant from 2005 to 2008 and provided on-Site reviews of remedial activities completed during this time. SWRNA was the primary consultant for work activities and reporting completed in late 2008 and provided on-Site reviews during this time. No activities occurred at the Site between 2009 and 2011. GHD Consulting Engineers, LLC was the primary consultant in 2012, when the groundwater and soil vapor monitoring wells were decommissioned. No activities occurred at the Site in 2013. GHD Consulting Services Inc. (GHD) was the primary consultant in 2014 and provided on-Site reviews of temporary groundwater monitoring well installation and sampling that was completed during that time. Multiple sub-consultants and/or contractors were used to implement specific components of the remedy.

4.2.2 Site Preparation

A pre-construction meeting was held with NYSDEC and all contractors prior to initiating specific remediation tasks.

Documentation of agency approvals required by the specific Work Plans are included in Appendix D. Other non-agency permits relating to the remediation project are provided in Appendix D.

All SEQRA requirements and all substantive compliance requirements for attainment of applicable natural resource or other permits were achieved during this Remedial Action.

A NYSDEC-approved project sign was erected near the project entrance and remained in place during all phases of the project.

4.2.3 General Site Controls

Details of Site controls are included in each of the IRM and RI Reports previously submitted to the NYSDEC, as appropriate. In General, Site security and record keeping was maintained during work activities by the consultant responsible for completing the activity. Erosion and sedimentation controls and equipment decontamination were implemented as necessary based on the remedial activity being performed.

4.2.4 Nuisance controls

Particulate control measures were applied as needed during remediation work, and air monitoring for particulate and VOCs was conducted in accordance with the NYSDEC-approved CAMP. No VOC or odor issues were encountered during Site activities. As a result, no odor control measures needed to be implemented. Particulate control measures implemented during Site activities, including limiting the extent of open excavations and truck traffic on unpaved roadways, were effective at minimizing particulate issues.

No complaints were received during completion of work at the Site.

4.2.5 CAMP results

Community air monitoring for organic vapors and particulate matter was conducted during all ground intrusive activities, such as UST removal, soil excavation, and monitoring well installation, in accordance with the NYSDEC-approved CAMP. As specified in the CAMP, the action level for total organic vapors was 5 ppm over background for the 15-minute average and the action level for particulate matter was 100 ug/m^3 over background for the 15-minute average.

There were no 15-minute average exceedances for total organic vapors or particulate matter during the course of ground intrusive activities.

Copies of all field data sheets relating to the CAMP were provided as attachments to previous reports submitted to the NYSDEC.

4.2.6 Reporting

Project meetings and/or teleconferences were held during the remediation process with the NYSDEC/NYSDOH as necessary. These meetings provided a regular opportunity to discuss the remediation approach, progress, and kept all parties informed of the overall project status.

Selected photographs representing the progress of the activities were included in previous reports submitted to the NYSDEC.

4.3 CONTAMINATED MATERIALS REMOVAL

A list of the Track 4 Commercial Use Soil Cleanup Objectives (SCOs) for the contaminants of concern for this project is provided in Table 1.

A figure depicting areas where excavations were performed is shown in Figure 4.

4.3.1 Tanks, Fuel Dispensers, Pump Island, and Piping

During initial remediation activities in November 2000, the NYSDEC directed and oversaw the removal of five (5) USTs located southeast of the building and two (2) fuel dispensers located east of the building. Grossly impacted soil was encountered adjacent to the USTs during removal. As a result, the USTs and associated impacted soils were characterized and removed from the Site for disposal. The fuel dispensers were also removed from the Site for disposal.

During the first IRM, completed in October 2005 by S&W, two (2) additional USTs were removed from the Site, along with approximately 45-tons of petroleum impacted soils. The USTs had capacities of 550-gallons and 275-gallons.

A second IRM was completed on-Site in August 2007 and included removal of the following:

- removal of one (1) 275 gallon above ground fuel oil tank and its contents from inside the building;
- removal of a section of waste oil pipe that ran from the west wall of the building to the former UST area and plugging of the pipe’s floor penetration with cement;
- removal of the former hydraulic lift and contained hydraulic fluid;
- removal of the former pump island, including soil and piping adjacent to it;
- cleaning and plugging with cement a floor sump (Bay 2) and dry sump (Bay 3);

- removal of surface soil from two (2) discrete areas outside the building where sample results identified relatively elevated levels of polycyclic aromatic hydrocarbons (PAHs);
- steam cleaning of wall and floors of Bays 2 and 3 to remove oily residue; and
- removal of nine (9) 55 gallon drums containing waste materials.

4.3.1.1 Disposal Details

The IRM documentation reports submitted to the NYSDEC shows the total quantities of material removed from the Site and the disposal locations. A summary of the samples collected to characterize the waste, and associated analytical results are summarized in the IRM documentation.

Letters from Applicants to disposal facility owners and acceptance letters from disposal facility owners are included in the IRM documentation reports as appropriate.

Manifests and bills of lading are included in electronic format in the IRM documentation reports submitted to the NYSDEC.

4.3.1.2 On-Site Reuse

None of the materials discussed above were re-used on-Site.

4.4 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

Data usability summary reports (DUSRs) were prepared for all data generated in this remedial performance evaluation program. The DUSRs were included as appendices to previous IRM reports submitted to the NYSDEC, along with associated raw laboratory analytical reports.

4.4.1 Soil Sampling

Tables and a figure summarizing soil samples are included as Tables 2A through 2E and Figure 5, respectively, and all exceedances of SCOs are highlighted. Analytical data taken from across the Site indicate that Commercial Use SCOs have been met, with the exception of soils in discrete areas of the Site, as shown on Figure 6. Analytes in soil samples that exceed Commercial Use SCOs are analytes typically found in petroleum fuels, and the majority only marginally exceed applicable SCOs.

4.4.2 Groundwater Sampling

There was no remedial action for on-Site or off-Site groundwater. However, several rounds of groundwater samples were taken from the groundwater monitoring well network to delineate impacts and to determine groundwater quality trends. A table summarizing laboratory analytical results of groundwater samples is included as Table 3, and all exceedances of standards are highlighted. Groundwater impacts were identified across the majority of the Site, and off-Site in the downgradient direction (Figure 7). The majority of the impacts were due to metals and not Site contaminants of concern. In general, the highest concentrations of Site contaminants of concern identified in groundwater were in the vicinity of the historic USTs, and concentrations decreased substantially in the downgradient direction. Only one (1) off-Site well (MW-10) identified impacts due to Site contaminants of concern.

4.4.3 Soil Vapor Sampling

There was no remedial action for soil vapor at the Site; however, the Site Management Plan requires the installation, operation, and maintenance of a soil vapor venting system if the current building is occupied, or if any new building is constructed on-Site. Soil vapor samples were taken from on-Site soil vapor wells in 2006 and 2007, laboratory analytical results of which are summarized in Table 4. Laboratory analytical results indicated that soil vapor contaminated with VOCs exists at the Site, with the concentrations of analytes detected in soil vapor samples being fairly consistent across the majority of the Site (Figures 8 and 9). Detected concentrations were relatively minor, which likely will limit the mobility and off-Site impact of soil vapor through soil vapor intrusion.

4.5 IMPORTED BACKFILL

The IRM documentation reports discuss the imported backfill used to complete the IRM activities. A figure showing the Site locations where backfill was used at the Site is shown in Figure 4.

4.6 CONTAMINATION REMAINING AT THE SITE

Tables 2A through 2E and Figure 5 summarize the results of all soil samples remaining at the Site after completion of Remedial Action that exceed the Track 1 (Unrestricted Use) SCOs.

Since contaminated soil, groundwater, and soil vapor remains beneath the Site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

The Site is currently covered by a building slab, asphalt pavement, and minor landscaped areas. These existing features are intended to remain in place for the foreseeable future and constitute a soil cover engineering control for the Site. A Soil Management Plan, which outlines the procedures required in the event the underlying residual contamination is disturbed, is provided in Appendix B of the NYSDEC-approved SMP.

4.7 SOIL COVER SYSTEM

Since soil remains on-Site that may be contaminated, engineering controls (ECs) are required to protect human health and the environment.

Exposure to remaining contamination in soil/fill at the Site is prevented by a soil cover system placed over the Site. This cover system is comprised of a minimum of 12 inches of soil meeting the Commercial Use SCOs, or existing asphalt pavement or concrete building slabs. Figure 3 shows the location of each cover type at the Site. An Excavation Work Plan, which outlines the procedures required in the event the cover system and/or underlying residual contamination are disturbed, is provided in Appendix B of the SMP.

Procedures for monitoring, operating, and maintaining the soil cover system are provided in the Operation and Maintenance Plan in Section 4 of the SMP. The Monitoring Plan also addresses inspection procedures that must occur after any severe weather condition has taken place that may affect on-Site ECs.

4.8 OTHER ENGINEERING CONTROLS

Since remaining contaminated soil, groundwater, and soil vapor exists beneath the Site, it will be necessary to either 1) design and install a soil vapor mitigation system that will preclude soil vapor intrusion in on-Site buildings or 2) conduct an evaluation of soil vapor, indoor air, and sub-slab vapor in accordance with NYSDOH guidance to determine appropriate measures to be taken.

Procedures for monitoring the system will need to be included in the Monitoring Plan (Section 3 of the SMP) following installation of a soil vapor mitigation system in the existing building, or construction of new on-Site buildings. Procedures for operating and maintaining the soil vapor mitigation system will need to be included in the Operation and Maintenance Plan (Section 4 of the SMP) following installation of the system in the existing Site building, or construction of new on-Site buildings. The Monitoring Plan will also need to be updated to address severe condition inspections in the event that a severe condition, which may affect controls at the Site, occurs.

4.9 INSTITUTIONAL CONTROLS

The Site remedy requires that an Environmental Easement (EE) be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; (3) limit the use and development of the Site to Commercial or Industrial uses only; (4) restrict the use of groundwater for drinking or industrial purposes without treatment rendering it safe, as appropriate, and prior written approval from the NYSDEC and NYSDOH; and (5) require the investigation and mitigation, if necessary, of a potential source in the area of the Bay 3 Sump if the existing building is demolished/removed in the future.

The EE for the Site was executed by the Department on December 31, 2014, and filed with the Madison County Clerk on January 12, 2015. The County Recording Identifier number for this filing is 2015-171. A copy of the easement and proof of filing is provided in Appendix E.

4.10 DEVIATIONS FROM THE INTERIM REMEDIAL MEASURE WORK PLANS

There were no deviations from the NYSDEC-approved Interim Remedial Measure Work Plans.

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

A – Survey Map, Metes and Bounds

B – Digital Copy of the FER (on CD)

C – Digital Copy of the SMP (on CD)

D – NYSDEC Approvals of Substantive Technical Requirements and Other Remediation- Related Permits

E – Environmental Easement and Proof of Filing

FIGURES

CONTOUR INTERVAL: 20 FEET

MAP TAKEN FROM: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE
HAMILTON (1943, PHOTOINSPECTED 1976)
(www.nysgis.state.ny.us/quads/usgsdrg.htm)

QUADRANGLE LOCATION

0 1,000 2,000 3,000 4,000'

SCALE 1"=2,000' AT ORIGINAL SIZE

N

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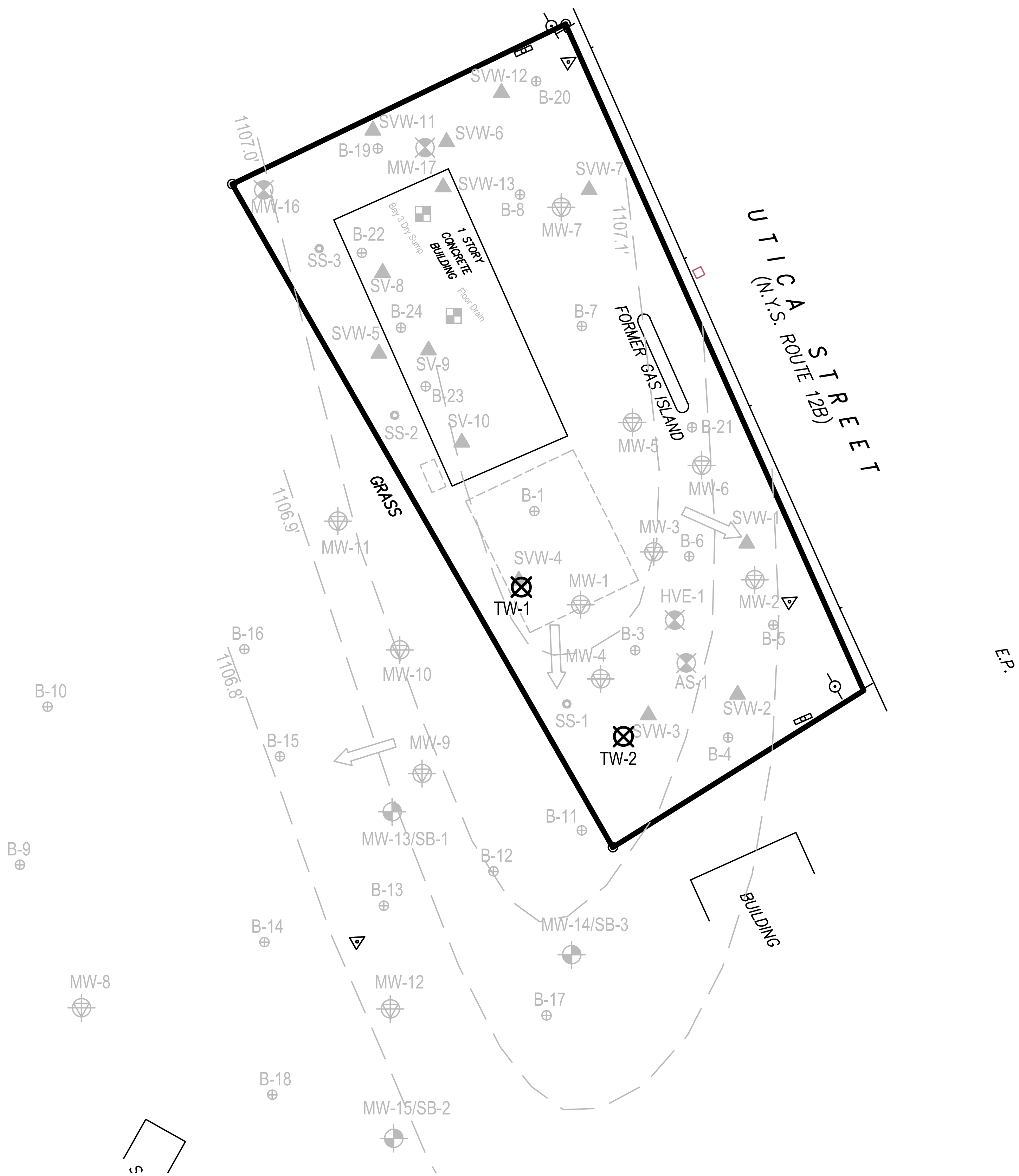
Madison County
47 Utica Street Final Engineering Report
ERP Site #E727011
Site Location Map

Job Number	86-12051
Revision	A
Date	01.07.2015

Figure 1



LEGEND:

- TEMPORARY GROUNDWATER MONITORING WELL (2014)
- GROUNDWATER MONITORING WELL (2006)
- GROUNDWATER MONITORING WELL (2002)
- SOIL VAPOR MONITORING WELL (2006)
- SOIL BORING (2006)
- SURFACE SOIL SAMPLE (2006)
- FLOOR DRAIN AND DRY SUMP SAMPLE
- HISTORIC GROUNDWATER ELEVATION CONTOURS AND FLOW DIRECTION (APPROXIMATE, FROM MARCH 2009)
- LOCATION OF FORMER USTs (APPROXIMATE)
- SITE BOUNDARY (APPROXIMATE)

NOTES:

1. MONITORING WELL LOCATIONS 2, 3, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, HVE-1 & AS-1,& ALL SOIL VAPOR WELL LOCATIONS WERE SURVEYED BY BRYANT (2006).
2. TEMPORARY GROUNDWATER MONITORING WELL LOCATIONS TW-1 AND TW-2 WERE SURVEYED BY SUSAN ANACKER, PLS (2014).
3. ALL OTHER SAMPLE LOCATIONS ARE APPROXIMATE.
4. ALL GROUNDWATER MONITORING WELLS AND SOIL VAPOR MONITORING WELLS HAVE BEEN DECOMMISSIONED AND REMOVED FROM THE SITE, EXCEPT THE ONES LOCATED WITHIN THE BUILDING.
5. TEMPORARY GROUNDWATER MONITORING WELLS WERE REMOVED IMMEDIATELY FOLLOWING SAMPLE COLLECTION IN 2014.

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

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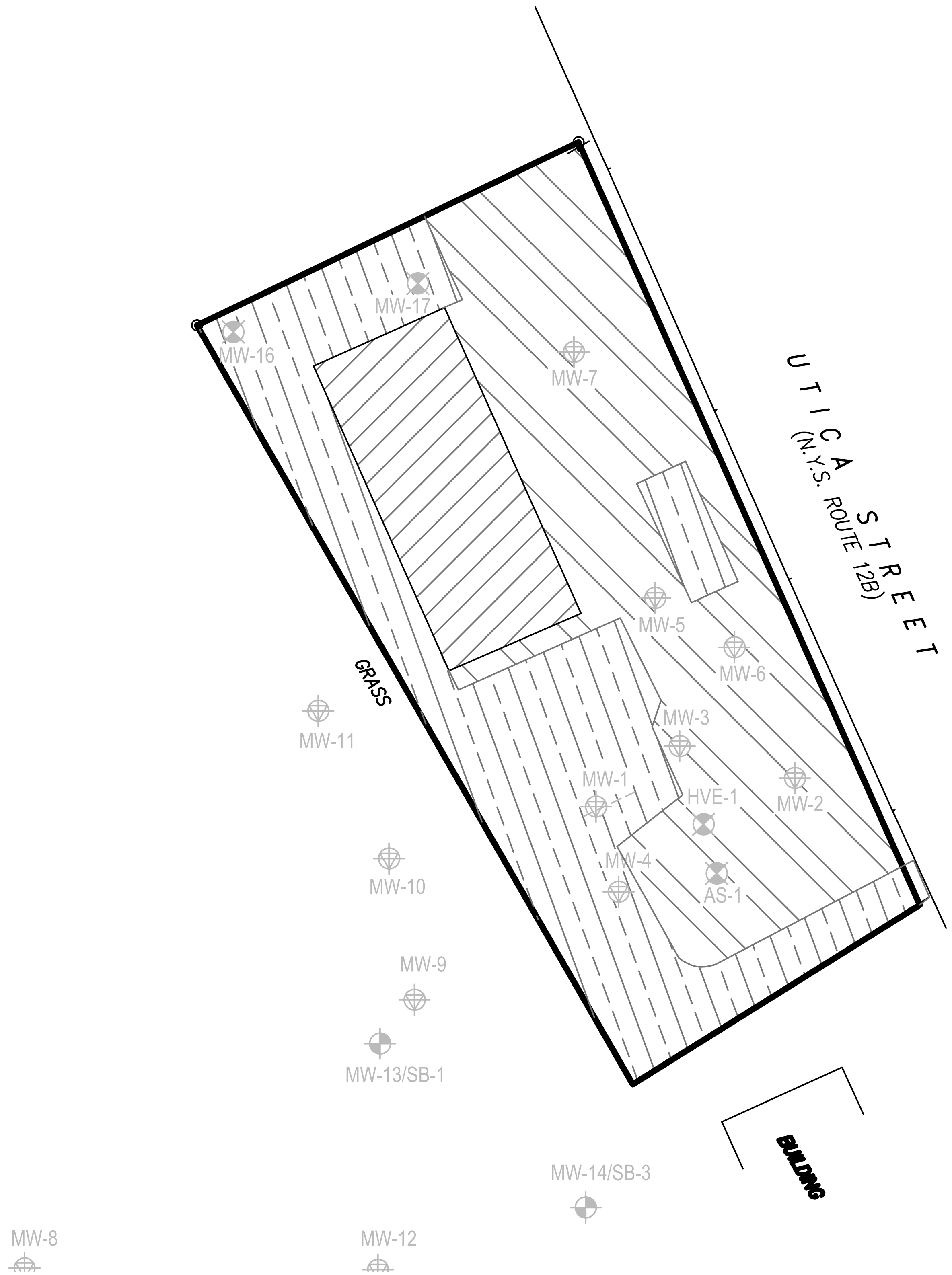
Madison County
47 Utica Street Final Engineering Report
ERP Site # E727011
Site Layout

Job Number	86-12051
Revision	A
Date	01.07.2015

Figure 2

One Remington Park Drive, Cazenovia NY 13035 USA **T** 1 315 679 5800 **F** 1 315 679 5853 **E** cazmail@ghd.com **W** www.ghd.com

Plot Date: 7 January 2015 - 11:07 AM Cad File No: G:\86\12051\FER\Figures\86-12051-D2.cadd.dwg



LEGEND:

- GROUNDWATER MONITORING WELL (2006)
- GROUNDWATER MONITORING WELL (2002)
- LOCATION OF SOIL/GRANULAR FILL COVER (APPROXIMATE)
- LOCATION OF ASPHALT PAVEMENT COVER (APPROXIMATE)
- LOCATION OF CONCRETE BUILDING SLAB COVER (APPROXIMATE)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:
1. COVER AREAS BASED ON SURVEY PROVIDED BY SUSAN M. ANACKER, PLS. AUGUST 14, 2013.
2. ALL GROUNDWATER MONITORING WELLS WERE DECOMMISSIONED IN 2012.

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

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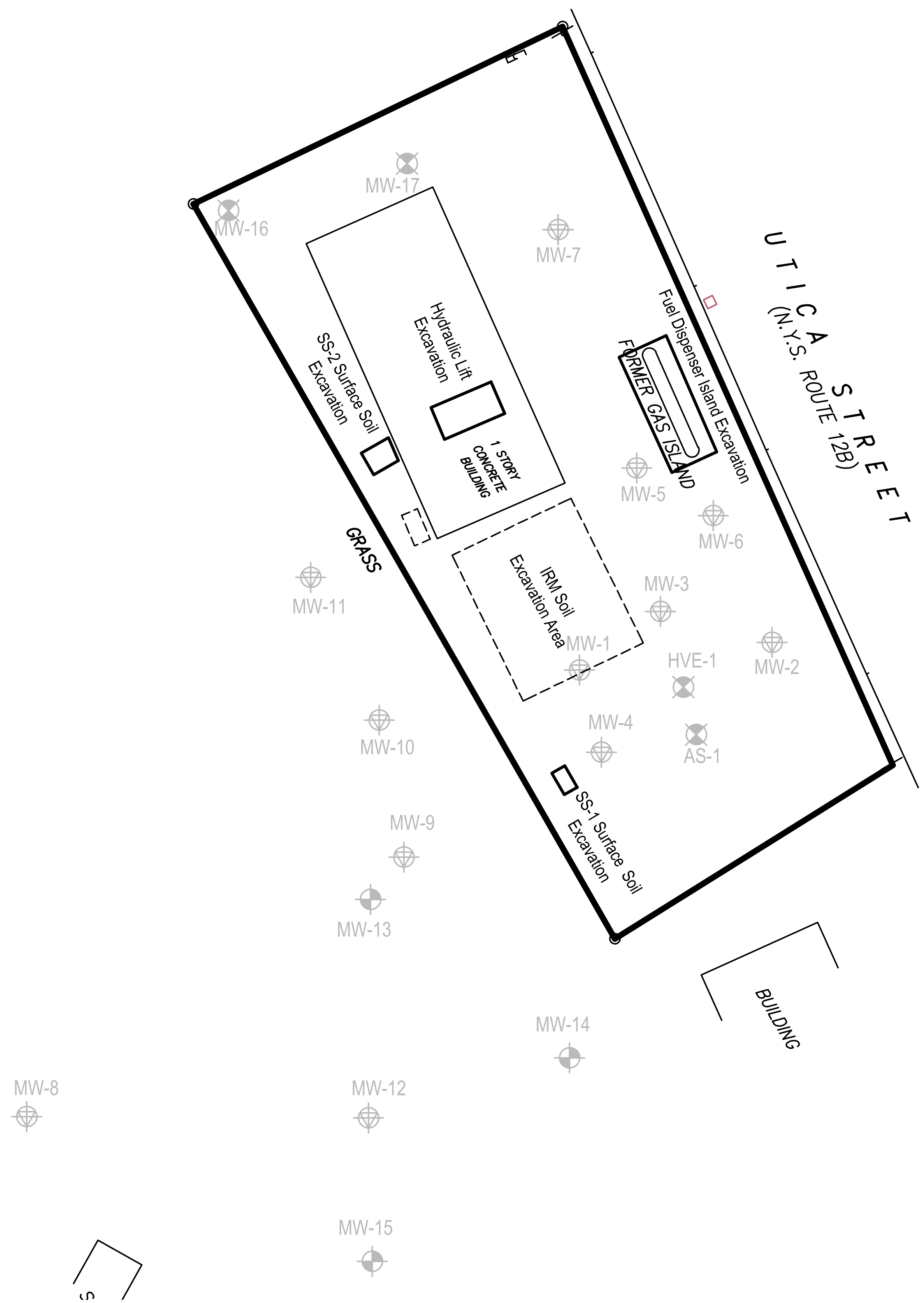
Madison County
47 Utica Street Final Engineering Report
ERP Site # E727011
Location of Cover Types

Job Number	86-12051
Revision	A
Date	01.07.2015

Figure 3

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com



LEGEND:

- GROUNDWATER MONITORING WELL (2006)
- GROUNDWATER MONITORING WELL (2002)
- LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)
- AREA OF SOIL EXCAVATION (APPROXIMATE)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:
1. EXCAVATIONS WERE BACKFILLED WITH CLEAN OFF-SITE GRANULAR MATERIAL.
2. THE SURFACE AT THE FORMER GAS ISLAND EXCAVATION WAS RESTORED WITH ASPHALT PAVEMENT, ONCE BACKFILLED.
3. THE SURFACE AT THE HYDRAULIC LIFT EXCAVATION WAS RESTORED WITH CONCRETE, ONCE BACKFILLED.
4. THE SURFACE AT THE TWO FORMER USTs EXCAVATIONS AND THE TWO SURFACE SOIL EXCAVATIONS WERE RESTORED TO GRASS COVER, ONCE BACKFILLED.
5. ALL GROUNDWATER MONITORING WELLS WERE DECOMMISSIONED IN 2012.

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

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Madison County
47 Utica Street Final Engineering Report
ERP Site # E727011
Extent of Remedial Excavation and Backfill Areas

Job Number 86-12051
Revision A
Date 01.07.2015

Figure 4

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 7 January 2015 - 11:09 AM Cad File No: G:\86\12051\FER\Figures\86-12051-D4.cadd.dwg

Analyte	MW17-2 (13-14')
Acetone	0.064

Analyte	H1 Sidewall	H1 Bottom
Benzo(a)anthracene	1.1	1.7
Chrysene	1.1	2.1
Benzo(b)fluoranthene	1.4	1.4
Benzo(a)pyrene	1.0	
Indeno(1,2,3-cd)pyrene	0.59	0.52

Analyte	B-7
Xylenes (Total)	0.31

Analyte	PI-1N	PI-2E	PI-3W	PI-4S
Acetone	0.18	0.2		0.16
Methylene Chloride	0.065		0.059	0.057
Benzo(a)anthracene		1.3		
Chrysene		1.2		
Benzo(b)fluoranthene		1.4		
Benzo(a)pyrene		1.1		
Indeno(1,2,3-cd)pyrene		1.3		
Dibenzo(a,h)anthracene		0.36		

Analyte	SS-2N	SS-2S	SS-2E	SS-2W	SS-2B
Copper	56.8	65.9	70.9		
Lead	337	530	379	233	312
Mercury	0.5	0.46	0.42	0.89	0.61
Zinc	686	1,040	1,050	376	590
Benzo(a)anthracene	7.1	6.9	11	3.5	7.1
Chrysene	6.7	6.9	12	3.5	7.1
Benzo(b)fluoranthene	6.8	6.6	15	3.1	9.4
Benzo(k)fluoranthene	2.6	2.8	5.5	1.2	3.3
Benzo(a)pyrene	5.6	5.8	10		6.4
Indeno(1,2,3-cd)pyrene	3.7	3.5	5.1	1.6	3.3
Dibenzo(a,h)anthracene	0.93	0.85	1.4	0.37	0.83

Analyte	WW-1	NW-1	Floor-2
Benzo(a)anthracene	1.7	1.3	
Chrysene	1.8	1.2	
Benzo(b)fluoranthene	1.8	1.2	
Benzo(a)pyrene	1.5	1.1	
Indeno(1,2,3-cd)pyrene	1.3	0.99	
Dibenzo(a,h)anthracene	0.39		
m,p-Xylene			3.4
n-Propylbenzene			5
1,2,4-Trimethylbenzene			10
Lead	315	127	

Analyte	B-1
Xylenes (Total)	2

Analyte	B-6
Xylenes (Total)	1.5

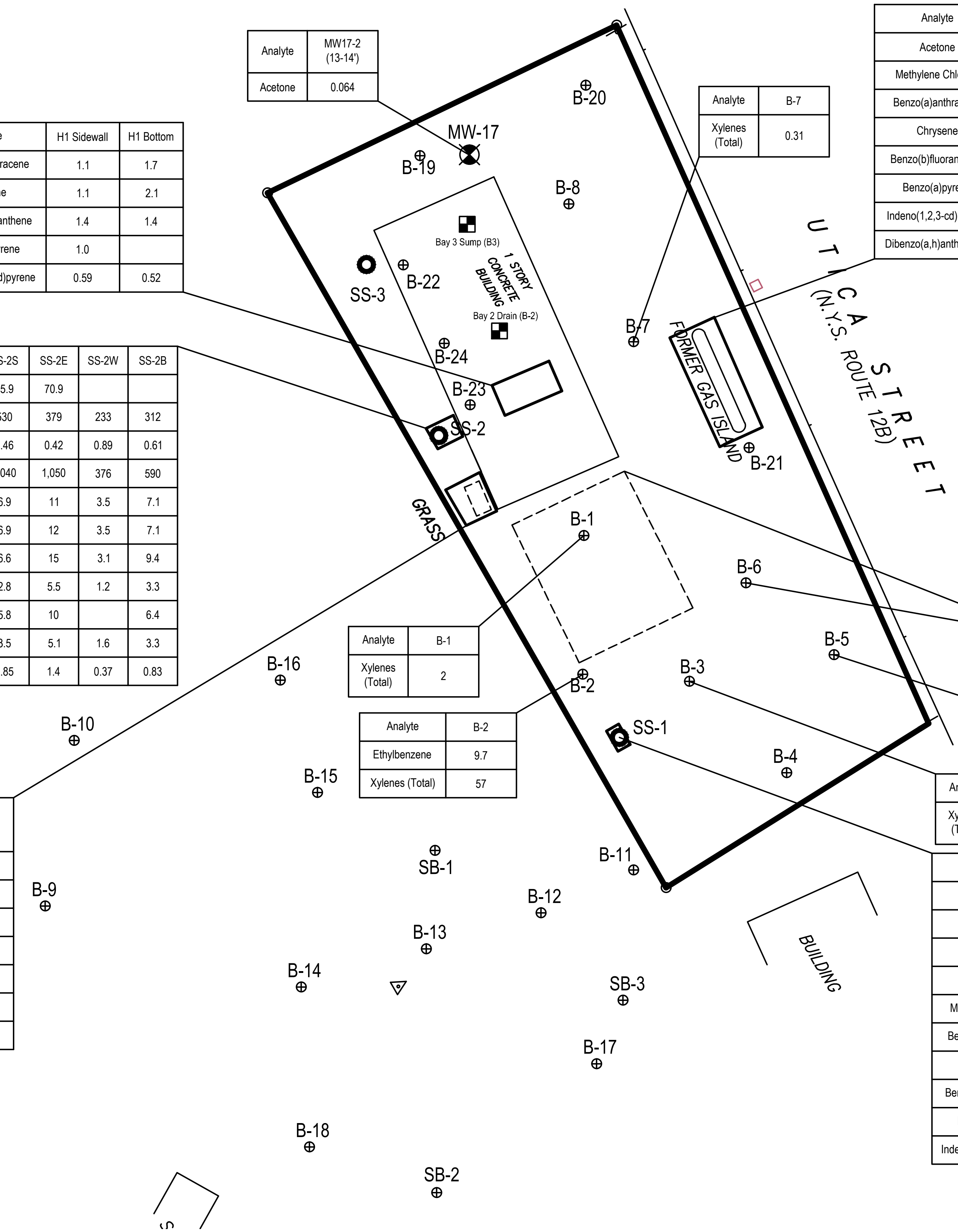
Analyte	B-2
Ethylbenzene	9.7
Xylenes (Total)	57

Analyte	B-5
Ethylbenzene	0.24

Analyte	B-3
Xylenes (Total)	1

Analyte	Soil End Point
Benzo(a)anthracene	2.5
Chrysene	2.5
Benzo(b)fluoranthene	2.6
Benzo(k)fluoranthene	1.1
Benzo(a)pyrene	2.3
Indeno(1,2,3-cd)pyrene	1.5
Dibenzo(a,h)anthracene	0.4

Analyte	SS-1N	SS-1S	SS-1E	SS-1W	SS-1B
Lead	67.9	171	82.8	267	70.2
Mercury				0.25	
Zinc	109	142	110	279	124
Acetone	0.19				0.16
Methylene Chloride	0.053	0.082	0.068	0.13	0.15
Benzo(a)anthracene				1.1	
Chrysene			1	1.1	
Benzo(b)fluoranthene			1.4	1.7	
Benzo(a)pyrene				1.1	
Indeno(1,2,3-cd)pyrene			0.61	0.68	



LEGEND:

- LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)
- AREA OF IRM SOIL EXCAVATION (APPROXIMATE)
- SURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)
- SUBSURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:
1. TEXT BOXES INDICATE SOIL BORING ANALYTICAL RESULTS THAT EXCEEDED UNRESTRICTED USE SCOs.
2. ALL RESULTS ARE REPORTED AS mg/kg (PARTS PER MILLION)
3. ONLY ANALYTES THAT EXCEEDED UNRESTRICTED USE SCOs ARE INCLUDED HERE. FOR A COMPLETE LIST OF ANALYTICAL RESULTS SEE TABLES.
4. BLANK CELLS INDICATE ANALYTE WAS NOT DETECTED ABOVE UNRESTRICTED USE SCOs.
5. END-POINT SOIL SAMPLES WW-1 AND NW-1 TAKEN FROM THE SIDEWALLS OF THE IRM EXCAVATION AREA (SWRNA, 2005).
6. END-POINT SOIL SAMPLE FLOOR-2 TAKEN FROM THE FLOOR OF THE IRM EXCAVATION AREA (SWRNA, 2005).
7. END-POINT SOIL SAMPLES SS-1N, SS-1S, SS-1E, SS-1W TAKEN FROM THE SIDEWALLS OF THE SS-1 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
8. END-POINT SOIL SAMPLE SS-1B TAKEN FROM THE FLOOR OF THE SS-1 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
9. END-POINT SOIL SAMPLES SS-2N, SS-2S, SS-2E, AND SS-2W TAKEN FROM THE SIDEWALLS OF THE SS-2 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
10. END-POINT SOIL SAMPLE SS-2B TAKEN FROM THE FLOOR OF THE SS-2 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
11. END-POINT SOIL SAMPLES PI-1N, PI-2E, PI-3W, AND PI-4S TAKEN FROM THE SIDEWALLS OF THE FUEL DISPENSER ISLAND EXCAVATION AREA (SWRNA, 2007).
12. END-POINT SOIL SAMPLES H1 SIDEWALL AND H2 BOTTOM TAKEN FROM THE SIDEWALL AND FLOOR OF THE HYDRAULIC LIFT EXCAVATION AREA, RESPECTIVELY (SWRNA, 2007).
13. END-POINT SOIL SAMPLE SOIL END POINT TAKEN FROM THE SIDEWALL OF THE SUPPLEMENTAL SOIL EXCAVATION AROUND SS-2 (SWRNA, 2008).

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

CLIENTS | PEOPLE | PERFORMANCE

Madison County
47 Utica Street Final Engineering Report
ERP Site # E727011

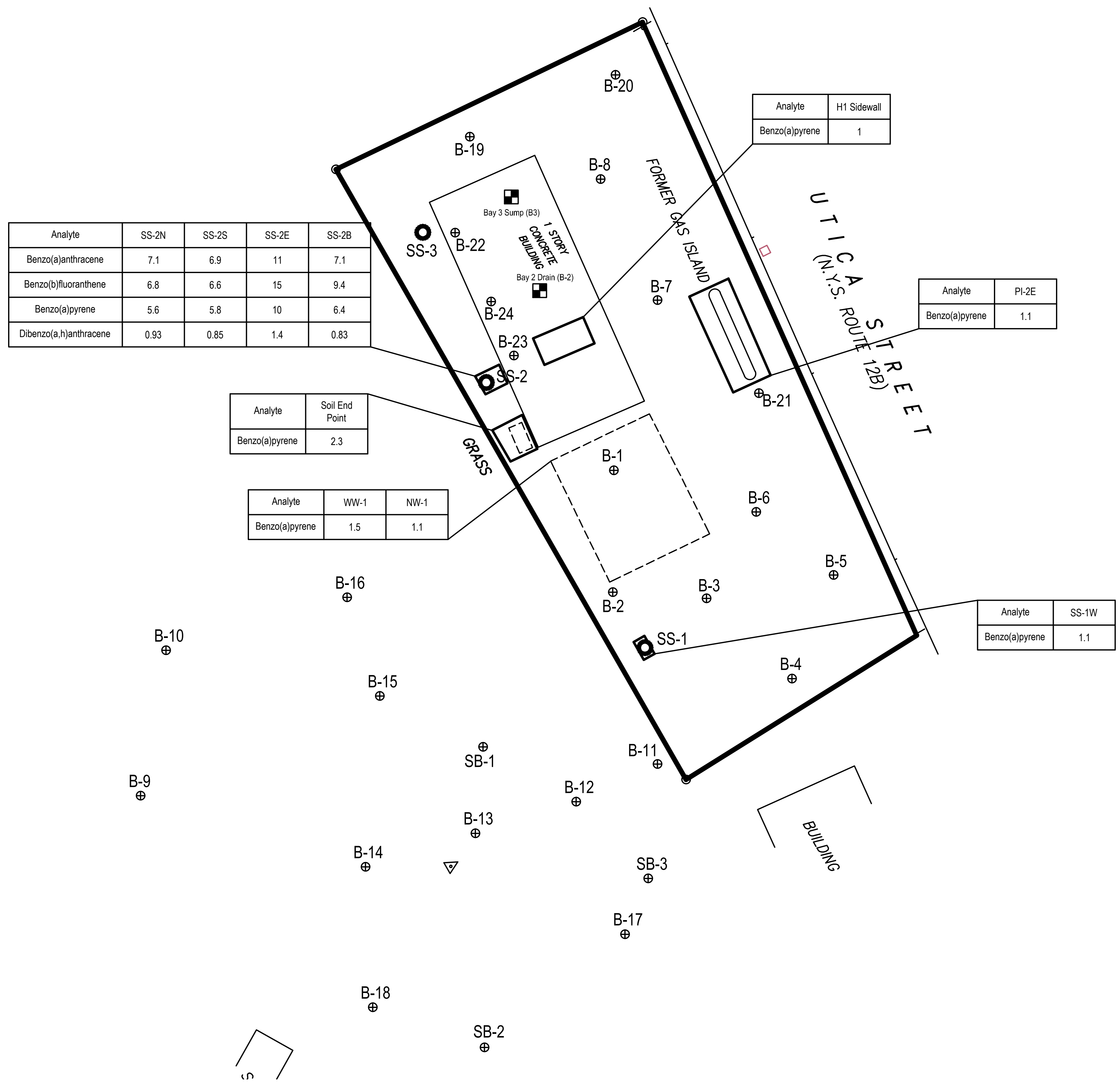
Remaining Soil Contamination
Above Unrestricted Use SCOs

Job Number | 86-12051
Revision | A
Date | 01.07.2015

Figure 5

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 7 January 2015 - 11:10 AM Cad File No: G:\86\12051\FER\Figures\86-12051-D5.cadd.dwg



Analyte	SS-2N	SS-2S	SS-2E	SS-2B
Benzo(a)anthracene	7.1	6.9	11	7.1
Benzo(b)fluoranthene	6.8	6.6	15	9.4
Benzo(a)pyrene	5.6	5.8	10	6.4
Dibenzo(a,h)anthracene	0.93	0.85	1.4	0.83

Analyte	Soil End Point
Benzo(a)pyrene	2.3

Analyte	WW-1	NW-1
Benzo(a)pyrene	1.5	1.1

Analyte	H1 Sidewall
Benzo(a)pyrene	1

Analyte	PI-2E
Benzo(a)pyrene	1.1

Analyte	SS-1W
Benzo(a)pyrene	1.1

LEGEND:

- LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)
- AREA OF IRM EXCAVATION (APPROXIMATE)
- SURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)
- SUBSURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:
1. ONLY SAMPLES THAT EXCEEDED COMMERCIAL USE SOIL CLEANUP OBJECTIVES FOR AT LEAST ONE ANALYTE ARE SHOWN HERE (SEE TABLES IN REPORT FOR FULL ANALYTICAL RESULTS).
2. END-POINT SOIL SAMPLES WW-1 AND NW-1 TAKEN FROM THE SIDEWALL OF THE IRM EXCAVATION AREA (SWRNA, 2007)
3. END-POINT SOIL SAMPLE SS-1W TAKEN FROM THE SIDEWALL OF THE SS-1 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
4. END-POINT SOIL SAMPLES SS-2N, SS-2S, SS-2E TAKEN FROM THE SIDEWALLS OF THE SS-2 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
5. END-POINT SOIL SAMPLE SS-2B TAKEN FROM THE FLOOR OF THE SS-2 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
6. END-POINT SOIL SAMPLE PI-2E TAKEN FROM THE SIDEWALL OF THE FUEL DISPENSER ISLAND EXCAVATION AREA (SWRNA, 2007).
7. END-POINT SOIL SAMPLE HI SIDEWALL TAKEN FROM THE SIDEWALL OF THE HYDRAULIC LIFT EXCAVATION AREA (SWRNA, 2007).
8. END-POINT SOIL SAMPLE SOIL END POINT TAKEN FROM THE SIDEWALL OF THE SUPPLEMENTAL SOIL EXCAVATION AROUND SS-2 (SWRNA, 2008).

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

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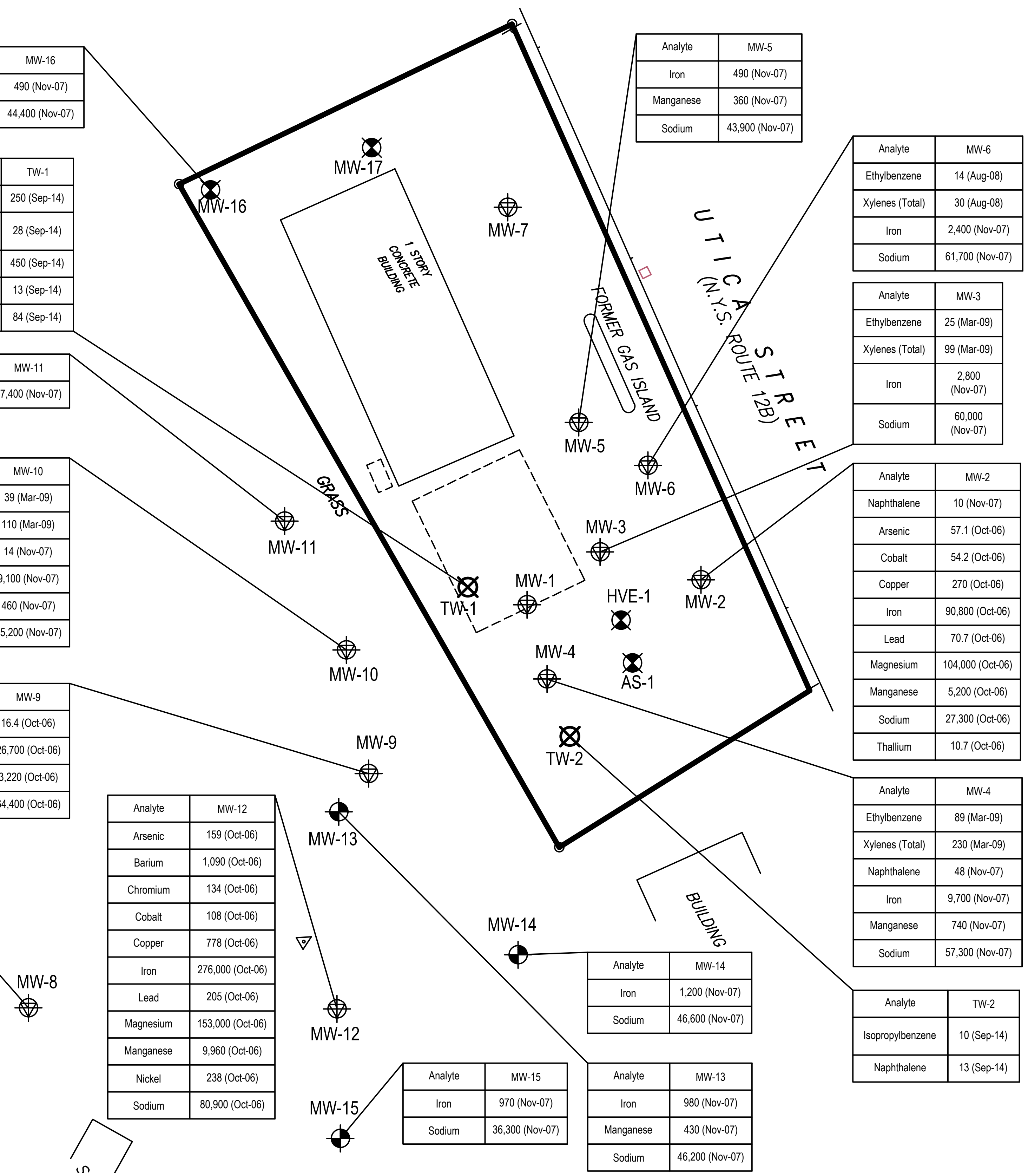
Madison County
47 Utica Street Final Engineering Report
ERP Site # E727011

Remaining Soil Contamination Above Commercial Use SCOs

Job Number	86-12051
Revision	A
Date	01.07.2015

Figure 6

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com



Analyte	MW-16
Iron	490 (Nov-07)
Sodium	44,400 (Nov-07)

Analyte	TW-1
Ethylbenzene	250 (Sep-14)
Isopropylbenzene	28 (Sep-14)
m,p-Xylenes	450 (Sep-14)
o-Xylene	13 (Sep-14)
Naphthalene	84 (Sep-14)

Analyte	MW-11
Sodium	57,400 (Nov-07)

Analyte	MW-10
Ethylbenzene	39 (Mar-09)
Xylenes (Total)	110 (Mar-09)
Naphthalene	14 (Nov-07)
Iron	9,100 (Nov-07)
Manganese	460 (Nov-07)
Sodium	55,200 (Nov-07)

Analyte	MW-9
Cobalt	16.4 (Oct-06)
Iron	26,700 (Oct-06)
Manganese	3,220 (Oct-06)
Sodium	64,400 (Oct-06)

Analyte	MW-8
Iron	900 (Nov-07)
Sodium	36,700 (Nov-07)

Analyte	MW-12
Arsenic	159 (Oct-06)
Barium	1,090 (Oct-06)
Chromium	134 (Oct-06)
Cobalt	108 (Oct-06)
Copper	778 (Oct-06)
Iron	276,000 (Oct-06)
Lead	205 (Oct-06)
Magnesium	153,000 (Oct-06)
Manganese	9,960 (Oct-06)
Nickel	238 (Oct-06)
Sodium	80,900 (Oct-06)

Analyte	MW-15
Iron	970 (Nov-07)
Sodium	36,300 (Nov-07)

Analyte	MW-5
Iron	490 (Nov-07)
Manganese	360 (Nov-07)
Sodium	43,900 (Nov-07)

Analyte	MW-6
Ethylbenzene	14 (Aug-08)
Xylenes (Total)	30 (Aug-08)
Iron	2,400 (Nov-07)
Sodium	61,700 (Nov-07)

Analyte	MW-3
Ethylbenzene	25 (Mar-09)
Xylenes (Total)	99 (Mar-09)
Iron	2,800 (Nov-07)
Sodium	60,000 (Nov-07)

Analyte	MW-2
Naphthalene	10 (Nov-07)
Arsenic	57.1 (Oct-06)
Cobalt	54.2 (Oct-06)
Copper	270 (Oct-06)
Iron	90,800 (Oct-06)
Lead	70.7 (Oct-06)
Magnesium	104,000 (Oct-06)
Manganese	5,200 (Oct-06)
Sodium	27,300 (Oct-06)
Thallium	10.7 (Oct-06)

Analyte	MW-4
Ethylbenzene	89 (Mar-09)
Xylenes (Total)	230 (Mar-09)
Naphthalene	48 (Nov-07)
Iron	9,700 (Nov-07)
Manganese	740 (Nov-07)
Sodium	57,300 (Nov-07)

Analyte	MW-14
Iron	1,200 (Nov-07)
Sodium	46,600 (Nov-07)

Analyte	MW-13
Iron	980 (Nov-07)
Manganese	430 (Nov-07)
Sodium	46,200 (Nov-07)

Analyte	TW-2
Isopropylbenzene	10 (Sep-14)
Naphthalene	13 (Sep-14)

LEGEND:

- TEMPORARY GROUNDWATER MONITORING WELL (2014)
- LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)
- GROUNDWATER MONITORING WELL (2006)
- GROUNDWATER MONITORING WELL (2002)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:
1. ONLY THE MOST RECENT GROUNDWATER SAMPLE ANALYTICAL RESULTS THAT EXCEEDED NYSDEC TOGS CLASS GA STANDARDS OR GUIDANCE VALUES ARE LISTED HERE (SEE TABLES IN REPORT FOR FULL LIST OF ANALYTES AND RESULTS).
2. ALL GROUNDWATER ANALYTICAL RESULTS REPORTED AS ug/L (PARTS PER BILLION).
3. THE GROUNDWATER SAMPLES EXHIBITED HIGH TURBIDITY AT THE TIME OF SAMPLE COLLECTION, WHICH LIKELY LEADS TO THE ELEVATED METALS CONCENTRATIONS IDENTIFIED.
4. ALL GROUNDWATER MONITORING WELLS WERE DECOMMISSIONED IN 2012.
5. TEMPORARY GROUNDWATER MONITORING WELLS WERE REMOVED IMMEDIATELY FOLLOWING SAMPLE COLLECTION IN 2014.

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

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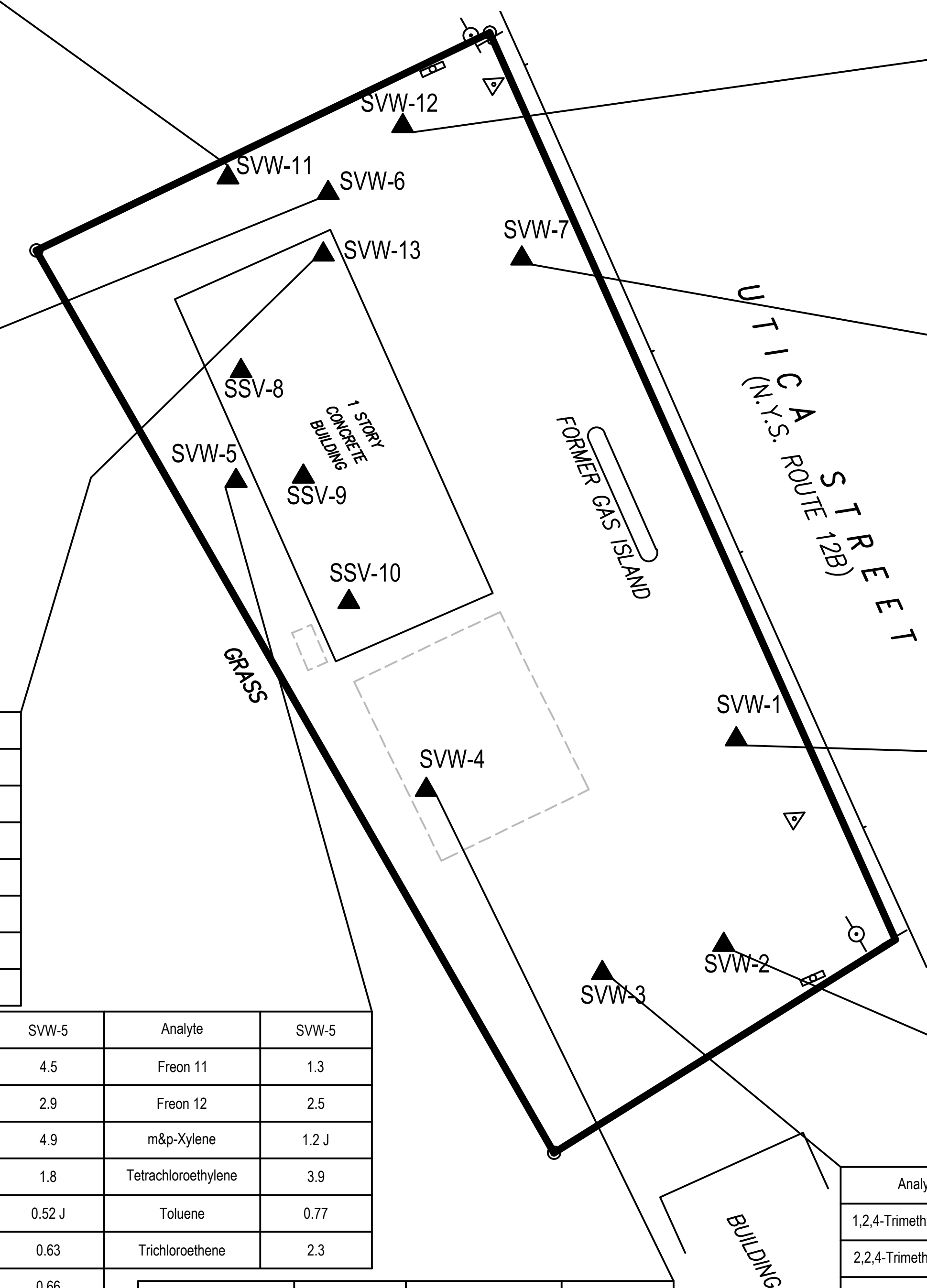
Madison County
47 Utica Street Final Engineering Report
ERP Site # E727011
Remaining Groundwater Contamination
Above Class GA Standards

Job Number 86-12051
Revision A
Date 01.07.2015

Figure 7

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 7 January 2015 - 11:08 AM Cad File No: G:\86\12051\FER\Figures\86-12051-D7.cadd.dwg



Analyte	SVW-11	Analyte	SVW-11
1,1,1-Trichloroethane	0.83	Ethylbenzene	66
1,2,4-Trimethylbenzene	9	Freon 11	1.1
1,3,5-Trimethylbenzene	5.8	Freon 12	2.4
1,4-Dichlorobenzene	3.7	m&p-Xylene	380
4-Ethyltoluene	3.1	o-Xylene	120
Acetone	38	Tetrachloroethylene	84
Carbon disulfide	0.76	Toluene	0.77
cis-1,2-Dichloroethene	0.73	Trichloroethene	2.5

Analyte	SVW-6	Analyte	SVW-6
1,1,1-Trichloroethane	78	Freon 11	1.5
1,2,4-Trimethylbenzene	5.4	Freon 12	2.6
1,3,5-Trimethylbenzene	2.5	m&p-Xylene	1.5
1,4-Dichlorobenzene	3.4	Methylene chloride	0.99
4-Ethyltoluene	0.6 J	o-Xylene	0.71
Acetone	73.0	Styrene	0.56 J
Carbon disulfide	1.6	Tetrachloroethylene	500
cis-1,2-Dichloroethene	1.3	Toluene	0.69
Ethylbenzene	0.84	Trichloroethene	5.7

Analyte	SVW-13	Analyte	SVW-13
1,1,1-Trichloroethane	26	Freon 114	9.2
1,2,4-Trimethylbenzene	4.7	Freon 12	2.9
1,3,5-Trimethylbenzene	3.1	m&p-Xylene	1.8
1,4-Dichlorobenzene	2.5	o-Xylene	1
2,2,4-Trimethylpentane	0.66 J	Tetrachloroethylene	400
Carbon disulfide	1.7	Toluene	1
Ethylbenzene	0.75	Trichloroethene	1.6
Freon 11	1.8		

Analyte	SVW-5	Analyte	SVW-5
1,2,4-Trimethylbenzene	4.5	Freon 11	1.3
1,3,5-Trimethylbenzene	2.9	Freon 12	2.5
2,2,4-Trimethylpentane	4.9	m&p-Xylene	1.2 J
Carbon disulfide	1.8	Tetrachloroethylene	3.9
cis-1,2-Dichloroethene	0.52 J	Toluene	0.77
Cyclohexane	0.63	Trichloroethene	2.3
Ethylbenzene	0.66		

Analyte	SVW-4	Analyte	SVW-4
1,2,4-Trimethylbenzene	5.9	Ethylbenzene	2.2
1,3,5-Trimethylbenzene	2.8	m&p-Xylene	1.8
1,4-Dichlorobenzene	4	Methylene chloride	1.3
2,2,4-Trimethylpentane	9.1	o-Xylene	0.79
4-Ethyltoluene	0.65 J	Styrene	0.69
Carbon disulfide	7.6	Tetrachloroethylene	1.2
cis-1,2-Dichloroethene	1.2	Toluene	9.6
Ethyl acetate	0.97	Trichloroethene	6.6

Analyte	SVW-3
1,2,4-Trimethylbenzene	7
2,2,4-Trimethylpentane	430
Carbon disulfide	11.00
Chlorobenzene	7.8
cis-1,2-Dichloroethene	0.64
Ethylbenzene	5
Freon 11	1.1
Heptane	62.0
Hexane	23
Methylene chloride	0.85

Analyte	SVW-2	Analyte	SVW-2
1,2,4-Trimethylbenzene	6.9	Freon 12	2.6
1,3,5-Trimethylbenzene	3.5	m&p-Xylene	1.2 J
4-Ethyltoluene	0.75	Methylene chloride	0.6
Carbon disulfide	1.4	o-Xylene	0.57 J
cis-1,2-Dichloroethene	0.81	Toluene	0.84
Ethylbenzene	0.57 J	Trichloroethene	3.2
Freon 11	1.3		

Analyte	SVW-12	Analyte	SVW-12
1,1,1-Trichloroethane	140	m&p-Xylene	1.8
1,2,4-Trimethylbenzene	1.2	o-Xylene	0.71
1,3,5-Trimethylbenzene	2.3	Tetrachloroethylene	260
1,4-Dichlorobenzene	2.4	Toluene	1.2
4-Ethyltoluene	0.6 J	Trichloroethene	3.3
Ethylbenzene	0.75		

Analyte	SVW-7	Analyte	SVW-7
1,1,1-Trichloroethane	1.2	Freon 114	1.9
1,2,4-Trimethylbenzene	5.1	Freon 12	1.5
1,3,5-Trimethylbenzene	2.5	m&p-Xylene	1.4
1,4-Dichlorobenzene	4.5	Methylene chloride	1
4-Ethyltoluene	0.6 J	o-Xylene	0.66
Acetone	84	Styrene	0.65
Carbon disulfide	2.8	Tetrachloroethylene	0.76 J
cis-1,2-Dichloroethene	1.3	Toluene	1.3
Ethylbenzene	0.79	Trichloroethene	6.4

Analyte	SVW-1	Analyte	SVW-1
1,2,4-Trimethylbenzene	7.4	cis-1,2-Dichloroethene	1.7
1,3,5-Trimethylbenzene	2.9	Ethylbenzene	1.3
1,4-Dichlorobenzene	4.6	m&p-Xylene	2.3
4-Ethyltoluene	0.95	o-Xylene	1.1
Benzene	0.68	Tetrachloroethylene	0.97 J
Carbon disulfide	1.9	Toluene	4.7

LEGEND:

▼ SOIL VAPOR SAMPLE LOCATION

LOCATION OF FORMER USTs (APPROXIMATE)

SITE BOUNDARY (APPROXIMATE)

NOTES:

1. ALL CONCENTRATIONS ARE REPORTED AS ug/m³.
2. ONLY ANALYTES THAT WERE DETECTED DURING THE MOST RECENT SAMPLING EVENT ARE SHOWN HERE. FOR A COMPLETE SUMMARY OF SOIL VAPOR SAMPLE RESULTS, SEE TABLES IN REPORT.
3. SOIL VAPOR SAMPLES SVW-1 THROUGH SVW-7 AND SVW-11 THROUGH SVW-13 WERE COLLECTED NOVEMBER 14, 2007.
4. SUB-SLAB SOIL VAPOR SAMPLES SSV-8 THROUGH SSV-10 WERE COLLECTED OCTOBER 4, 2006.
5. ALL SOIL VAPOR WELL LOCATIONS WERE SURVEYED BY BRYANT (2006).
6. ALL SOIL VAPOR MONITORING WELLS HAVE BEEN DECOMMISSIONED AND REMOVED FROM THE SITE, EXCEPT THE ONES LOCATED WITHIN THE BUILDING, IN 2012.

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

CLIENTS | PEOPLE | PERFORMANCE

Madison County
47 Utica Street Final Engineering Report
ERP Site # E727011
Soil Vapor Well Sample Results

Job Number 86-12051
Revision A
Date 01.07.2015

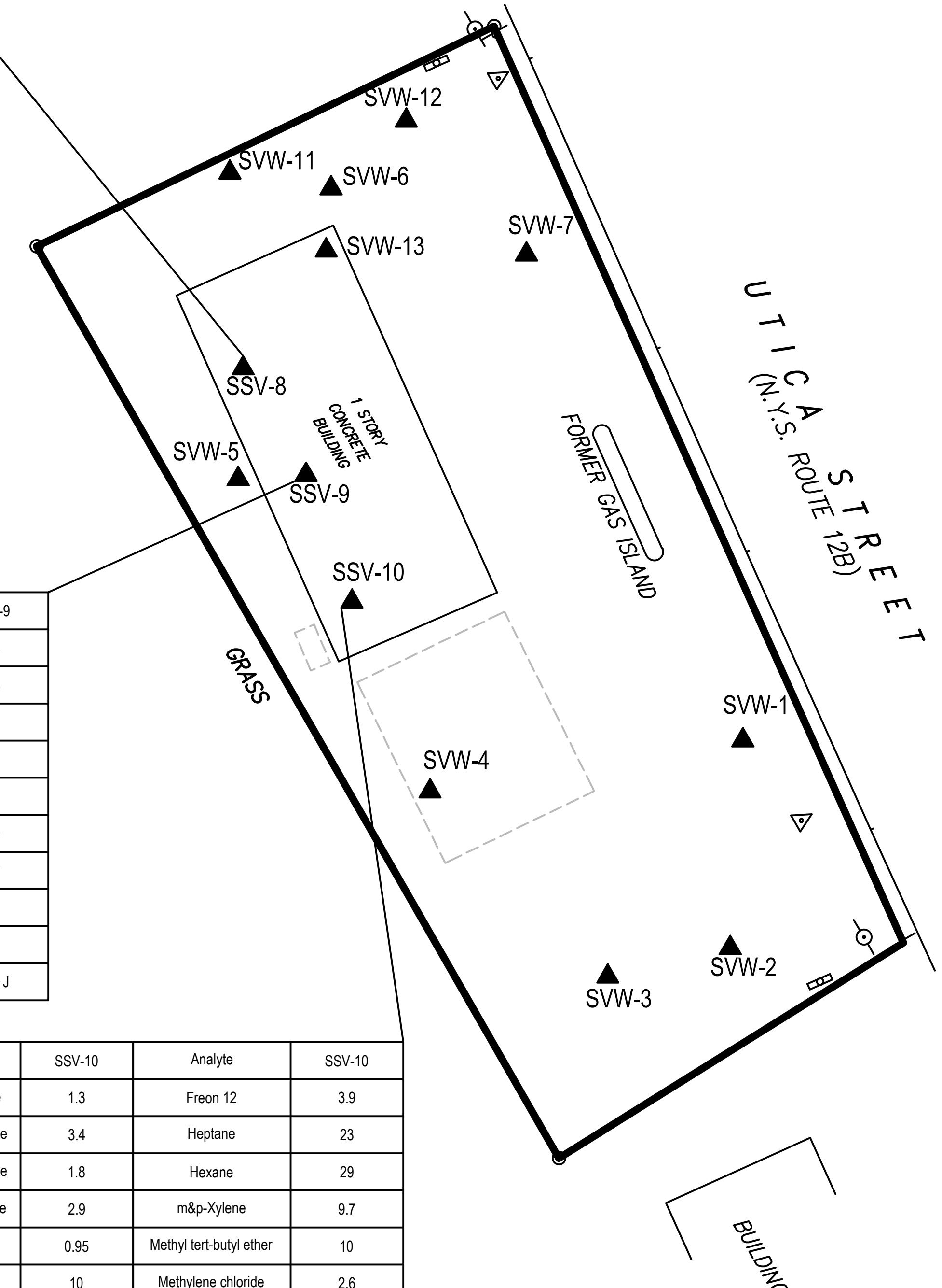
Figure 8

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 7 January 2015 - 1:16 PM Cad File No: G:\86\12051\FER\Figures\86-12051-D8.cadd.dwg

Analyte	SSV-8	Analyte	SSV-8
1,1,1-Trichloroethane	0.83	Freon 12	3.6
1,2,4-Trimethylbenzene	3	Heptane	17
1,3,5-Trimethylbenzene	2.5	Hexane	34
2,2,4-Trimethylpentane	4.1	m&p-Xylene	7.9
4-Ethyltoluene	0.85	Methyl tert-butyl ether	12
Benzene	9.1	Methylene chloride	19
Carbon disulfide	20	o-Xylene	3.0
Chloroform	0.84	Tetrachloroethylene	2.1
Cyclohexane	20	Toluene	17
Ethylbenzene	1.1	Trichloroethene	0.6 J
Freon 11	1.9		

Analyte	SSV-9	Analyte	SSV-9
1,1,1-Trichloroethane	0.72 J	Freon 11	2.3
1,2,4-Trimethylbenzene	4.7	Freon 12	3.8
1,3,5-Trimethylbenzene	2.6	Heptane	7
2,2,4-Trimethylpentane	1.9	Hexane	7.4
4-Ethyltoluene	1	m&p-Xylene	7
Benzene	2.2	Methylene chloride	2.9
Carbon disulfide	1.8	o-Xylene	2.7
Chloroform	1.1	Tetrachloroethylene	15
Cyclohexane	3.5	Toluene	8.4
Ethylbenzene	1.2	Trichloroethene	0.66 J



Analyte	SSV-10	Analyte	SSV-10
1,1,1-Trichloroethane	1.3	Freon 12	3.9
1,2,4-Trimethylbenzene	3.4	Heptane	23
1,3,5-Trimethylbenzene	1.8	Hexane	29
2,2,4-Trimethylpentane	2.9	m&p-Xylene	9.7
4-Ethyltoluene	0.95	Methyl tert-butyl ether	10
Benzene	10	Methylene chloride	2.6
Carbon disulfide	2.8	o-Xylene	3.5
cis-1,2-Dichloroethene	0.64	Tetrachloroethylene	2.5
Cyclohexane	11	Toluene	19
Ethylbenzene	2.1	Trichloroethene	2.3
Freon 11	2.1		

LEGEND:

▼ SOIL VAPOR SAMPLE LOCATION

LOCATION OF FORMER USTs (APPROXIMATE)

SITE BOUNDARY (APPROXIMATE)

NOTES:

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N

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SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

CLIENTS | PEOPLE | PERFORMANCE

Madison County
47 Utica Street Final Engineering Report
ERP Site # E727011
Sub-Slab Soil Vapor Sample Results

Job Number	86-12051
Revision	A
Date	01.07.2015

Figure 9

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

TABLES

Table 1: (Page 1 of 1) Soil Cleanup Objectives for Commercial Use.

Analyte (mg/kg)	Soil Cleanup Objectives (Commercial Use)
METALS	
Arsenic	16
Barium	400
Beryllium	590
Cadmium	9.3
Chromium (hexavalent)	400
Chromium (trivalent)	1,500
Copper	270
Cyanide (total)	27
Lead	1,000
Manganese	10,000
Mercury (total)	2.8
Nickel	310
Selenium	1,500
Silver	1,500
Zinc	10,000
PCBs and PESTICIDES	
2,4,5-TP Acid (Silvex)	500
4,4'-DDD	92
4,4'-DDE	62
4,4'-DDT	47
Aldrin	0.68
alpha-BHC	3.4
beta-BHC	3
Chlordane (alpha)	24
delta-BHC	500
Dibenzofuran	350
Dieldrin	1.4
Endosulfan I	200
Endosulfan II	200
Endosulfan sulfate	200
Endrin	89
Heptachlor	15
Lindane	9.2
Polychlorinated biphenyls (PCBs)	1
SVOCs	
Acenaphthene	500
Acenapthylene	500
Aniline	500
Anthracene	500
Benzo(a)anthracene	5.6
Benzo(a)pyrene	1
Benzo(b)fluoranthene	5.6
Benzo(g,h,i)perylene	500
Benzo(k)fluoranthene	56
Chrysene	56
Dibenz(a,h)anthracene	0.56
Fluoranthene	500
Fluorene	500
Indeno(1,2,3-cd)pyrene	5.6
m-Cresol (3-methylphenol)	500
Naphthalene	500
Nitrobenzene	69
o-Cresol (2-methylphenol)	500
p-Cresol (4-methylphenol)	500
Pentachlorophenol	6.7
Phenanthrene	500
Phenol	500
Pyrene	500
VOCs	
1,1,1-Trichloroethane	500
1,1-Dichloroethane	240
1,1-Dichloroethene	500
1,2,4-Trimethylbenzene	190
1,2-Dichlorobenzene	500
1,2-Dichloroethane	30
1,3,5-Trimethylbenzene	190
1,3-Dichlorobenzene	280
1,4-Dichlorobenzene	130
1,4-Dioxane	130
2-Butanone (methyl ethyl ketone)	500
Acetone	500
Benzene	44
Butylbenzene	500
Carbon tetrachloride	22
Chlorobenzene	500
Chloroform	350
cis-1,2-Dichloroethene	500
Ethylbenzene	390
Hexachlorobenzene	6
Methyl tert-butyl ether (MTBE)	500
Methylene chloride	500
n-Propylbenzene	500
sec-Butylbenzene	500
tert-Butylbenzene	500
Tetrachloroethene	150
Toluene	500
trans-1,2-Dichloroethene	500
Trichloroethene	200
Vinyl chloride	13
Xylene (mixed)	500

Soil Cleanup Objectives from Subpart 375-6 (December 2006) and CP-51 (October 2010)

All values reported as mg/kg (parts per million)

Table 2A: (Page 1 of 1) Summary of Previous Investigation Soil Sample Detections. Nature's Way 2002. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/kg)	**Soil Cleanup Objectives**		**Sample Identification**							
			On-Site Soil Samples							
	Unrestricted Use	**Commercial Use**	**B-1**	**B-2**	**B-3**	**B-4**	**B-5**	**B-6**	**B-7**	**B-8**
Sample Date			Feb-02	Feb-02	Feb-02	Feb-02	Feb-02	Feb-02	Feb-02	Feb-02
Sample Depth			4 - 8'	4 - 8'	4 - 8'	8 - 12'	8 - 12'	4 - 8'	4 - 8'	4 - 8'
VOCs by EPA Method 8260										
Acetone	0.05	500	U	U	U	U	**0.24**	U	U	U
Ethylbenzene	1	390	0.25	**9.7**	U	U	U	U	U	U
Xylenes (Total)	0.26	500	**2**	**57**	**1**	U	U	**1.5**	**0.31**	U
SVOCs by EPA Method 8270										
Fluorene	30	500	0.0021	U	U	U	U	U	U	U
2-Methylnaphthalene			U	0.01	0.0091	U	U	0.001	0.0012	U
Naphthalene	12	500	0.0025	0.0075	0.0027	U	U	0.00026	0.00054	U
Phenanthrene	100	500	0.0053	U	U	U	U	U	U	U

Analyte (mg/kg)	**Soil Cleanup Objectives**		**Sample Identification**							
			Off-Site Soil Samples							
	Unrestricted Use	**Commercial Use**	**B-9**	**B-10**	**B-11**	**B-12**	**B-13**	**B-14**	**B-17**	**B-18**
Sample Date			Feb-02	Feb-02	Mar-02	Mar-02	Mar-02	Mar-02	Mar-02	Mar-02
Sample Depth			7 - 11'	7 - 11'	8 - 12'	8 - 12'	8 - 12'	8 - 12'	8 - 12'	8 - 12'
VOCs by EPA Method 8260										
All compounds analyzed for			U	U	U	U	U	U	U	U
SVOCs by EPA Method 8270										
All compounds analyzed for			U	U	U	U	U	U	U	U

All values reported in mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

U - Analyzed for but not detected above laboratory detection limits

Bold, heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlines cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

Only analytes that were detected above laboratory detection limits are reported

Table 2B: (Page 1 of 1). IRM Soil Sample Laboratory Analytical Results - Excavation End-Point Soil Samples. S&W, 2006. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Location					
			UST Excavation					
	Unrestricted Use	Commercial Use	EW-1	SW-1	WW-1	NW-1	Floor-1	Floor-2
			East Sidewall	South Sidewall	West Sidewall	North Sidewall	Northern Portion	Southern Portion
SEMIVOLATILES BY EPA 8270								
Naphthalene	12	500	U	U	U	0.14	U	5.4
Acenaphthene	20	500	U	U	U	U	U	U
Fluorene	30	500	U	U	0.08	U	U	U
Phenanthrene	100	500	U	U	1.8	0.5	U	0.23
Anthracene	100	500	U	U	0.4	0.31	U	U
Fluoranthene	100	500	U	U	2.6	1.6	U	0.25
Pyrene	100	500	U	U	2.7	1.6	U	0.29
Benz(a)anthracene	1	5.6	U	U	**1.7**	**1.3**	U	0.14
Chrysene	1	56	U	U	**1.8**	**1.2**	U	0.12
Benzo(b)fluoranthene	1	5.6	U	U	**1.8**	**1.2**	U	U
Benzo(k)fluoranthene	0.8	56	U	U	0.67	0.46	U	U
Benzo(a)pyrene	1	1	U	U	**1.5**	**1.1**	U	U
Indeno(1,2,3-cd)pyrene	0.5	5.6	U	U	**1.3**	**0.99**	U	U
Dibenz(a,h)anthracene	0.33	0.56	U	U	**0.39**	0.29	U	U
Benzo(g,h,i)perylene	100	500	U	U	1.3	1.2	U	U
Total SVOCs			ND	ND	18.04	11.89	ND	6.43
VOLATILES by EPA 8260								
Methyl tert-butyl ether	0.93	500	U	U	U	U	U	U
Benzene	0.06	44	U	U	U	U	U	U
Toluene	0.7	500	U	U	U	U	U	U
Ethylbenzene	1	390	U	U	U	U	U	0.9
m,p-xylene	0.26	500	U	U	U	U	U	**3.4**
o-xylene	0.26	500	U	U	U	U	U	0.043
Isopropylbenzene			U	U	U	U	U	1.3
n-Propylbenzene	3.9	500	U	U	U	U	U	**5**
1,3,5-Trimethylbenzene	8.4	190	U	U	U	U	U	5.1
tert-Butylbenzene	5.9	500	U	U	U	U	U	U
1,2,4-Trimethylbenzene	3.6	190	U	U	U	U	U	**10**
sec-Butylbenzene	11	500	U	U	U	U	U	1.1
p-Isopropyltoluene			U	U	U	U	U	0.76
n-Butylbenzene			U	U	U	U	U	1.8
Naphthalene	12	500	U	U	U	U	0.00087	0.12
Total VOCs			ND	ND	ND	ND	0.00087	29.523
TOTAL LEAD by ASTM D-2216								
Lead	63	1,000	8.2	9.6	**315**	**127**	5.5	9.9

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

Table 2C: (Page 1 of 3). RI Soil Sample Laboratory Analytical Results. Surface and Sub-Surface Soil Samples. S&W, 2006. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification											
	Unrestricted Use	Commercial Use	Subsurface Off-Site			Subsurface On-Site						Surface Soil On-Site		
			SB-1	SB-2	SB-3	B-19	B-20	B-21	B-22	B-23	B-24	SS-1	SS-2	SS-3
Sample Date			9/18/2006	9/19/2006	9/19/2006	9/19/2006	9/18/2006	9/18/2006	9/20/2006	9/20/2006	9/20/2006	9/19/2006	9/19/2006	9/19/2006
Sample Depth			(8-10')	(8-10')	(8-10')	(6-8')	(4-6')	(8-10')	(8-10')	(8-10')	(8-10')			
EPA Method 6010B														
Aluminum			5,420	7,150	6,240	9,520	10,800	3,210	5,910	6,490	7,300	4,280	9,260	5,740
Antimony			UN	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN
Arsenic	13	16	6.5 BN	8 BN	6.4 BN	10.4 N	8.7 N	4 BN	4.9 BN	3.8 BN	4.6 BN	6.1 BN	7.1 BN	10.2 N
Barium	350	400	29.3	54.4	24.1	63.6	76.3	31.5	47.9	36.7	49.8	59.1	108	80.4
Beryllium	7.2	590	U	U	U	U	0.65 B	U	U	U	U	U	U	U
Cadmium	2.5	9.3	UN	UN	UN	UN	UN	UN	1.3 BN	UN	UN	**2.7 BN**	**2.5 BN**	**3.1 BN**
Calcium			112,000 N	88,800 N	89,200 N	3,790 N	12,300 N	152,000 N	154,000 N	109,000 N	78,500 N	144,000 N	25,100 N	149,000 N
Chromium	30	1,500	8.3	10.4	8.8	15.2	15.3	6.5	10.4	8.6	9.6	10.9	14.1	13.6
Cobalt			6.8 *	6.6 *	5.9 *	9.3 *	11 *	3 *	5.5 *	5.9 *	7 *	4.5 *	10.3 *	5.7 *
Copper	50	270	28.4	32.9	26.2	44.2	45.1	17.5	25.1	30.9	31.4	32.1	37.4	41.3
Iron			14,500	19,900	16,100	26,000	27,200	7,450	15,800	13,800	17,300	18,500	21,800	14,400
Lead	63	1,000	5.4 B	10	7.1 B	15.2	32.9	53.8	18.2	19.9	21	**247**	**321**	**334**
Magnesium			47,000	20,800	20,100	6,120	5,610	16,700	64,700	25,600	20,700	12,400	6,710	10,500
Manganese	1,600	10,000	490	571	379	488	773	480	805	448	688	376	707	380
Nickel	30	310	14.1	16.6	14.6	24.3	26.5	7.4	12.9	14.8	15.7	14.7	21.8	16
Potassium			825	957	855	1,030	974	702	989	1,080	1,030	650	748	764
Selenium	3.9	1,500	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN
Silver	2	1,500	U	U	U	U	U	U	U	U	U	U	U	U
Sodium			205	198	164	101 B	709	234	374	219	149	185	U	194
Thallium			U	4.2 B	3.5 B	13.3 B	11.8 B	U	5.1 B	U	5.3 B	4.1 B	9.5 B	U
Vanadium			9.1 *	13 *	10 *	16.5 *	20.2 *	8.3 *	12 *	10.3 *	13.2 *	11.8 *	18.2 *	13.7 *
Zinc	109	10,000	60.7	74	63	86.2	95.9	96.2	87.8	67.6	77.8	**155**	**756**	**310**
EPA Method 7471A														
Mercury	0.18	2.8	0.019 B	0.019 B	U	0.047 B	0.033 B	0.031 B	0.099	0.12	0.058	0.13	**0.25**	**0.28**

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlines cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlines cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as in the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result is < quantitation limit, but > zero. Reported concentration is an approximate value.

H Concentration is calculated by hand and is an approximation.

N Spike recovery exceeds the upper or lower control limits

* Batch QC exceeds upper or lower control limits for laboratory control standards

Table 2C: (Page 2 of 3). RI Soil Sample Laboratory Analytical Results. Surface and Sub-Surface Soil Samples. S&W, 2006. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification											
			Subsurface Off-Site			Subsurface On-Site						Surface Soil On-Site		
	Unrestricted Use	Commercial Use	SB-1	SB-2	SB-3	B-19	B-20	B-21	B-22	B-23	B-24	SS-1	SS-2	SS-3
Sample Date			9/18/2006	9/19/2006	9/19/2006	9/19/2006	9/18/2006	9/18/2006	9/20/2006	9/20/2006	9/20/2006	9/19/2006	9/19/2006	9/19/2006
Sample Depth			(8-10')	(8-10')	(8-10')	(6-8')	(4-6')	(8-10')	(8-10')	(8-10')	(8-10')			
EPA Method 8260B														
1 1 1-Trichloroethane	0.68	500	U	U	U	U	U	U	U	U	U	U	U	U
1 1 2 2-Tetrachloroethane			U	U	U	U	U	U	U	U	U	U	U	U
1 1 2-Trichloroethane			U	U	U	U	U	U	U	U	U	U	U	U
1 1-Dichloroethane	0.27	240	U	U	U	U	U	U	U	U	U	U	U	U
1 1-Dichloroethene	0.33	500	U	U	U	U	U	U	U	U	U	U	U	U
1 2-Dichloroethane	0.02	30	U	U	U	U	U	U	U	U	U	U	U	U
1 2-Dichloropropane			U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	0.12	500	U	U	U	U	U	U	U	U	U	U	U	U
2-Hexanone			U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)			U	U	U	U	U	U	U	U	U	U	U	U
Acetone	0.05	500	0.01 JB	0.0073 JB	0.022 JB	UB	UB	UB	0.0077 JB	0.0074 JB	0.02 JB	UB	UB	UB
Benzene	0.06	44	U	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane			U	U	U	U	U	U	U	U	U	U	U	U
Bromoform			U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane			U	U	U	U	U	U	U	U	U	U	U	U
Carbon disulfide			U	U	U	U	U	0.0013 J	U	U	U	U	U	U
Carbon tetrachloride	0.76	22	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane			U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	0.37	350	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane			U	U	U	U	U	U	U	U	U	U	U	U
cis-1 2-Dichloroethene	0.25	500	U	U	U	U	U	U	U	U	U	U	U	U
cis-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane			U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	1	390	U	U	U	U	U	0.011	U	U	U	U	U	U
Methylene chloride	0.05	500	0.012 J	0.014 J	0.0091 J	0.012 J	0.0076 J	0.0069 J	0.0067 JB	0.0043 JB	0.0059 JHB	0.0096 J	0.0096 J	0.0082 J
Styrene			U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.3	150	U	U	U	0.0017 J	U	U	U	U	U	U	U	U
Toluene	0.7	500	U	U	U	U	U	U	U	U	U	U	U	U
trans-1 2-Dichloroethene	0.19	500	U	U	U	U	U	U	U	U	U	U	U	U
trans-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	0.47	200	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl chloride	0.02	13	U	U	U	U	U	U	U	U	U	U	U	U
Xylenes (total)	0.26	500	0.0077	U	U	U	0.0051 J	0.056	U	U	U	U	U	U
Total VOCs			0.0297	0.0213	0.0311	0.0137	0.0127	0.0752	0.0144	0.0117	0.0259	0.0096	0.0096	0.0082

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlines cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlines cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as in the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result is < quantitation limit, but > zero. The concentration reported is an approximate value.

H Concentration is calculated by hand and is an approximation.

Table 2C: (Page 3 of 3). RI Soil Sample Laboratory Analytical Results. Surface and Sub-Surface Soil Samples. S&W, 2006. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification											
			Subsurface Off-Site			Subsurface On-Site						Surface Soil On-Site		
	Unrestricted Use	Commercial Use	SB-1	SB-2	SB-3	B-19	B-20	B-21	B-22	B-23	B-24	SS-1	SS-2	SS-3
Sample Date			9/18/2006	9/19/2006	9/19/2006	9/19/2006	9/18/2006	9/18/2006	9/20/2006	9/20/2006	9/20/2006	9/19/2006	9/19/2006	9/19/2006
Sample Depth			(8-10')	(8-10')	(8-10')	(6-8')	(4-6')	(8-10')	(8-10')	(8-10')	(8-10')			
EPA Method 8270C														
1 2 4-Trichlorobenzene			U	U	U	U	U	U	U	U	U	U	U	U
1 2-Dichlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U	U	U	U
1 3-Dichlorobenzene	2.4	280	U	U	U	U	U	U	U	U	U	U	U	U
1 4-Dichlorobenzene	1.8	130	U	U	U	U	U	U	U	U	U	U	U	U
2 2-oxybis (1-chloropropane)			U	U	U	U	U	U	U	U	U	U	U	U
2 4 5-Trichlorophenol			U	U	U	U	U	U	U	U	U	U	U	U
2 4 6-Trichlorophenol			U	U	U	U	U	U	U	U	U	U	U	U
2 4-Dichlorophenol			U	U	U	U	U	U	U	U	U	U	U	U
2 4-Dimethylphenol			U	U	U	U	U	U	U	U	U	U	U	U
2 4-Dinitrophenol			U	U	U	U	U	U	U	U	U	U	U	U
2 4-Dinitrotoluene			U	U	U	U	U	U	U	U	U	U	U	U
2 6-Dinitrotoluene			U	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene			U	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol			U	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene			U	U	U	U	U	0.82 J	U	U	U	0.085 J	0.36 J	0.064 J
2-Methylphenol			U	U	U	U	U	U	U	U	U	U	U	U
2-Nitroaniline			U	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol			U	U	U	U	U	U	U	U	U	U	U	U
3 3-Dichlorobenzidine			U	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline			U	U	U	U	U	U	U	U	U	U	U	U
4 6-Dinitro-2-methylphenol			U	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl phenyl ether			U	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol			U	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline			U	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl phenyl ether			U	U	U	U	U	U	U	U	U	U	U	U
4-Methylphenol			U	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline			U	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol			U	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	20	500	U	U	U	U	U	U	U	U	U	U	1.5 J	0.068 J
Acenaphthylene	100	500	U	U	U	U	0.057 J	U	U	0.13 J	U	0.4	0.3 J	0.26 J
Anthracene	100	500	U	U	U	U	U	U	U	0.14 J	U	0.38 J	2.2	0.3 J
Benzo(a)anthracene	1	5.6	U	U	U	U	0.22 J	U	U	0.67	0.057 J	**1.7**	**7.4**	0.77
Benzo(a)pyrene	1	1	U	U	U	U	0.26 J	U	U	0.55	0.059 J	**1.6**	**6.4**	0.79
Benzo(b)fluoranthene	1	5.6	U	U	U	U	0.19 J	U	U	0.59	U	**1.5**	**5.9**	0.69
Benzo(ghi)perylene	100	500	U	U	U	U	0.47	U	U	0.28 J	U	1.4	5	0.67
Benzo(k)fluoranthene	0.8	56	U	U	U	U	0.2 JM	U	U	0.54	0.06 J	**1.3**	**5.2**	0.61
Benzyl alcohol			U	U	U	U	U	U	U	U	U	U	U	U
Bis(2-chloroethoxy)methane			U	U	U	U	U	U	U	U	U	U	U	U
Bis(2-chloroethyl)ether			U	U	U	U	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate			3.4	0.52	0.83 J	0.69	1.1	5.1	0.61 B	1 B	0.42 B	0.064 JB	UB	0.12 JB
Butyl benzyl phthalate			U	U	U	U	U	U	U	U	U	U	U	0.11 J
Carbazole			U	U	U	U	U	U	U	0.057 J	U	0.14 J	1.7 J	0.092 J
Chrysene	1	56	U	U	U	U	0.26 J	U	U	0.62	0.056 J	**1.7**	**7.5**	0.78
Dibenzo(a h)anthracene	0.33	0.56	U	U	U	U	0.077 JM	U	U	0.1 J	U	**0.4**	**1.6 J**	0.17 J
Dibenzofuran			U	U	U	U	U	U	U	U	U	U	0.9 J	U
Diethyl phthalate			U	U	U	U	U	U	U	U	U	U	U	U
Dimethyl phthalate			U	U	U	U	U	U	U	U	U	U	U	U
Di-n-butyl phthalate			U	U	U	U	U	U	U	U	U	U	U	U
Di-n-octyl phthalate			U	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	100	500	U	U	U	U	0.2 J	U	U	1.2	0.1 J	2.2	14	1
Fluorene	30	500	U	U	U	U	U	U	U	U	U	0.056 J	1 J	0.062 J
Hexachlorobenzene	0.33	6	U	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene			U	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene			U	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane			U	U	U	U	U	U	U	U	U	U	U	U
Indeno(1 2 3-cd)pyrene	0.5	5.6	U	U	U	U	0.28 JM	U	U	0.35 J	U	**1.5**	**6.1**	0.7
Isophorone			U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	12	500	U	U	U	U	U	U	U	U	U	0.072 J	0.72 J	0.069 J
Nitrobenzene		69	U	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine			U	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine			U	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	0.8	6.7	U	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	100	500	U	U	U	U	0.1 J	U	U	0.61	U	0.84	12	0.58
Phenol	0.33	500	U	U	U	U	U	U	U	U	U	U	U	U
Pyrene	100	500	U	U	U	U	0.63	U	U	1.1	0.099 J	2.1	12	0.92
Total SVOCs			3.4	0.52	0.83	0.69	4.044	5.92	0.61	7.937	0.851	17.437	91.78	8.825

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlines cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlines cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as in the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero. The concentration reported is an approximate value.

H Concentration is calculated by hand and is an approximation.

ND Not detected by analytical method.

M Manually integrated compound

Table 2D: (Page 1 of 5). IRM-2 Soil Sample Laboratory Analytical Results. Excavation End-Point and Surface Soil Samples. S&W, 2007. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Identification										
	Unrestricted Use	Commercial Use	SURFACE SOIL (SS-1N) North Sidewall	SURFACE SOIL (SS-1S) South Sidewall	SURFACE SOIL (SS-1E) East Sidewall	SURFACE SOIL (SS-1W) West Sidewall	SURFACE SOIL (SS-1B) Bottom	SURFACE SOIL (SS-2N) North Sidewall	SURFACE SOIL (SS-2S) South Sidewall	SURFACE SOIL (SS-2E) East Sidewall	SURFACE SOIL (SS-2W) West Sidewall	SURFACE SOIL (SS-2B) Bottom	BAY 3 (B3) SUMP*
Metals by EPA 6010B													
Aluminum			6,570	5,600	4,870	5,850	8,760	7,310	8,000	7,670	6,610	8,010	6,740
Antimony			U	U	U	U	U	U	U	U	U	U	U
Arsenic	13	16	7.5 J	6.7 J	7 J	7.5 J	9.1 J	9.8	9.7 J	9.3 J	8.1 J	10.4	5.5 J
Barium	350	400	50.9	50.5	61.9	73.3	57.8	122	135	96.3	80.7	91.6	50.5
Beryllium	7.2	590	U	U	U	U	U	U	U	U	U	U	U
Cadmium	2.5	9.3	U	1.1 J	1.4 J	1.5 J	U	1.5 J	1.7 J	1.7 J	2.2 J	1.6 J	1.1 J
Calcium			114,000	117,000	120,000	103,000	41,300	48,200	63,600	35,900	83,700	85,100	70,500
Chromium	30	1,500	11.4	12	11.2	13.8	13	13.7	17.2	15.2	12.7	15.5	12.6
Cobalt			5.7	5.3	5.1	5.7	7.8	7.1	6.9	7.8	6	6.6	6.6
Copper	50	270	30.2	32.3	44.7	39.8	35.2	**56.8**	**65.9**	**70.9**	37.9	45.8	21.3
Iron			16,400	16,000	18,700	18,100	20,900	18,200	20,300	23,600	16,300	19,200	16,700
Lead	63	1,000	**67.9**	**171**	**82.8**	**267**	**70.2**	**337**	**530**	**379**	**233**	**312**	**87.9**
Magnesium			11,200	16,600	22,500	9,710	10,300	9,760	9,500	10,600	36,300	42,100	6,950
Manganese	1,600	10,000	649	534	520	534	764	721	727	681	607	632	353
Nickel	30	310	15.4	15.8	17	16.9	18.8	17.5	18.4	19	14.4	16.7	17.1
Potassium			796	758	734	818	852	885	970	848	1,020	1,020	931
Selenium	3.9	1,500	U	U	U	U	U	U	U	U	U	U	U
Silver	2	1,500	U	U	U	U	U	0.35 J	0.52 J	0.4 J	U	U	U
Sodium			124	153 J	156 J	136 J	80.6 J	95.4 J	107 J	80.8 J	210 J	167 J	141 J
Thallium			U	U	U	U	U	17.7 U	U	U	U	U	U
Vanadium			13.3	13.6	15.9	14.7	17	17.9	20	18.3	15.5	18	12
Zinc	109	10,000	**109**	**142**	**110**	**279**	**124**	**686**	**1,040**	**1,050**	**376**	**590**	**137**
Mercury by EPA 7471A													
Mercury	0.18	2.8		0.11	0.073	**0.25**	0.09	**0.5**	**0.46**	**0.42**	**0.89**	**0.61**	**0.3**

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

J Data indicate the presence of a compound that meets the identification criteria. The result is < quantitation limit, but > zero. Reported concentration is an approximate value.

* - sample was collected from sediment in floor drain sumps, all material was containerized and transported off-Site for proper disposal

Table 2D: (Page 2 of 5). IRM-2 Soil Sample Laboratory Analytical Results. Excavation End-Point and Surface Soil Samples. S&W, 2007. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Identification									
	Unrestricted Use	Commercial Use	PUMP ISLAND (PI - 1N) North Sidewall	PUMP ISLAND (PI-2E) East Sidewall	PUMP ISLAND (PI-3W) West Sidewall	PUMP ISLAND (PI-4S) South Sidewall	PUMP ISLAND (PI-5B) Bottom	SURFACE SOIL (SS-1N) North Sidewall	SURFACE SOIL (SS-1S) South Sidewall	SURFACE SOIL (SS-1E) East Sidewall	SURFACE SOIL (SS-1W) West Sidewall	SURFACE SOIL (SS-1B) Bottom
VOCs by EPA 8260B												
Chloromethane			U	U	U	U	U	U	U	U	U	U
Vinyl chloride	0.02	500	U	U	U	U	U	U	U	U	U	U
Bromomethane			U	U	U	U	U	U	U	U	U	U
Chloroethane			U	U	U	U	U	U	U	U	U	U
1 1-Dichloroethene	0.33	500	U	U	U	U	U	U	U	U	U	U
Carbon disulfide			U	U	U	U	U	U	U	U	U	U
Acetone	0.05	500	**0.18 JB**	**0.2 JB**	U	**0.16 JB**	U	**0.19 JB**	U	U	U	**0.16 JB**
Methylene chloride	0.05	500	**0.065 JB**	U	**0.059 JB**	**0.057 JB**	U	**0.053 JB**	**0.082 JB**	**0.068 JB**	**0.13 JB**	**0.15 JB**
trans-1 2-Dichloroethene	0.19	500	U	U	U	U	U	U	U	U	U	U
1 1-Dichloroethane	0.027	240	U	U	U	U	U	U	U	U	U	U
cis-1 2-Dichloroethene	0.25	500	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	0.12	500	U	U	U	U	U	U	U	U	U	U
Chloroform	0.37	350	U	U	U	U	U	U	U	U	U	U
1 1 1-Trichloroethane	0.68	500	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	0.76	22	U	U	U	U	U	U	U	U	U	U
Benzene	0.06	44	U	U	U	U	U	U	U	U	U	U
1 2-Dichloroethane	0.02	30	U	U	U	U	U	U	U	U	U	U
Trichloroethene	0.47	200	U	U	U	U	U	U	U	U	U	U
1 2-Dichloropropane			U	U	U	U	U	U	U	U	U	U
Bromodichloromethane			U	U	U	U	U	U	U	U	U	U
cis-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)			U	U	U	U	U	U	U	U	U	U
Toluene	0.7	500	U	U	U	U	U	U	U	U	U	U
trans-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U	U
1 1 2-Trichloroethane			U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	0.47	200	U	U	U	U	U	U	U	U	U	U
2-Hexanone			U	U	U	U	U	U	U	U	U	U
Dibromochloromethane			U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	1	390	U	U	U	U	U	U	U	U	U	U
Styrene			U	U	U	U	U	U	U	U	U	U
Bromoform			U	U	U	U	U	U	U	U	U	U
1 1 2 2-Tetrachloroethane			U	U	U	U	U	U	U	U	U	U
Xylenes (total)	0.26	500	U	U	U	U	U	U	U	U	U	U
MTBE	0.93	500	U	U	U	U	U	U	U	U	U	U
Total VOCs			0.245	0.2	0.059	0.217	ND	0.243	0.082	0.068	0.13	0.31

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U - Not Detected

J- Estimated value, below detection limits

B - Compound detected in method blank

NA - Compound not analyzed for

M - Manually integrated compound

Table 2D: (Page 3 of 5). IRM-2 Soil Sample Laboratory Analytical Results. Excavation End-Point and Surface Soil Samples. S&W, 2007. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Identification								
	Unrestricted Use	Commercial Use	SURFACE SOIL (SS-2N) North Sidewall	SURFACE SOIL (SS-2S) South Sidewall	SURFACE SOIL (SS-2E) East Sidewall	SURFACE SOIL (SS-2W) West Sidewall	SURFACE SOIL (SS-2B) Bottom	BAY 2 DRAIN (B-2) SEDIMENT*	BAY 3 (B3) SUMP*	HYDRAULIC LIFT (H1 SIDEWALL)	HYDRAULIC LIFT (H2 BOTTOM)
VOCs by EPA 8260B											
Chloromethane			U	U	U	U	U	U	U	U	U
Vinyl chloride	0.02	500	U	U	U	U	U	U	U	U	U
Bromomethane			U	U	U	U	U	U	U	U	U
Chloroethane			U	U	U	U	U	U	U	U	U
1 1-Dichloroethene	0.33	500	U	U	U	U	U	U	U	U	U
Carbon disulfide			U	U	U	U	U	U	U	U	U
Acetone	0.05	500	U	U	U	U	U	U	**0.25 JB**	U	U
Methylene chloride	0.05	500	0.0024 JB	0.0027 JB	0.0023 JB	0.0031 JB	0.0046 JB	U	**0.092 JB**	0.0027 JB	0.0035 JB
trans-1 2-Dichloroethene	0.19	500	U	U	U	U	U	U	U	U	U
1 1-Dichloroethane	0.027	240	U	U	U	U	U	U	U	U	U
cis-1 2-Dichloroethene	0.25	500	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	0.12	500	U	U	U	U	U	U	U	U	U
Chloroform	0.37	350	U	U	U	U	U	U	U	U	U
1 1 1-Trichloroethane	0.68	500	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	0.76	22	U	U	U	U	U	U	U	U	U
Benzene	0.06	44	U	U	U	U	U	U	U	U	U
1 2-Dichloroethane	0.02	30	U	U	U	U	U	U	U	U	U
Trichloroethene	0.47	200	U	U	U	U	U	U	U	U	U
1 2-Dichloropropane			U	U	U	U	U	U	U	U	U
Bromodichloromethane			U	U	U	U	U	U	U	U	U
cis-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)			U	U	U	U	U	5.3	U	U	U
Toluene	0.7	500	U	U	U	U	U	**4**	U	U	U
trans-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U
1 1 2-Trichloroethane			U	U	U	U	U	U	U	U	U
Tetrachloroethene	0.47	200	U	U	U	U	U	U	0.13 J	U	U
2-Hexanone			U	U	U	U	U	U	U	U	U
Dibromochloromethane			U	U	U	U	U	U	U	U	U
Chlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U
Ethylbenzene	1	390	U	U	U	U	U	**3.1**	U	U	U
Styrene			U	U	U	U	U	U	U	U	U
Bromoform			U	U	U	U	U	U	U	U	U
1 1 2 2-Tetrachloroethane			U	U	U	U	U	U	U	U	U
Xylenes (total)	0.26	500	U	U	U	U	U	**28**	U	U	U
MTBE	0.93	500	U	U	U	U	U	0.16 J	U	U	U
Total VOCs			0.0024	0.0027	0.0023	0.0031	0.0046	40.56	0.472	0.0027	0.0035

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U - Not Detected

J- Estimated value, below detection limits

B - Compound detected in method blank

NA - Compound not analyzed for

M - Manually integrated compound

* - sample was collected from sediment in floor drain sumps, all material was containerized and transported off-Site for proper disposal

Table 2D: (Page 4 of 5). IRM-2 Soil Sample Laboratory Analytical Results. Excavation End-Point and Surface Soil Samples. S&W, 2007. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Identification									
	Unrestricted Use	Commercial Use	PUMP ISLAND (PI - 1N) North Sidewall	PUMP ISLAND (PI-2E) East Sidewall	PUMP ISLAND (PI-3W) West Sidewall	PUMP ISLAND (PI-4S) South Sidewall	PUMP ISLAND (PI-5B) Bottom	SURFACE SOIL (SS-1N) North Sidewall	SURFACE SOIL (SS-1S) South Sidewall	SURFACE SOIL (SS-1E) East Sidewall	SURFACE SOIL (SS-1W) West Sidewall	SURFACE SOIL (SS-1B) Bottom
SVOCs by EPA 8270C												
Phenol	0.33	500	U	0.072 J	U	U	U	U	U	U	U	U
Bis(2-chloroethyl)ether			U	U	U	U	U	U	U	U	U	U
1 3-Dichlorobenzene	2.4	280	U	U	U	U	U	U	U	U	U	U
1 4-Dichlorobenzene	1.8	130	U	U	U	U	U	U	U	U	U	U
1 2-Dichlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U	U
Benzyl alcohol			U	U	U	U	U	U	U	U	U	U
2-Methylphenol	0.33	500	U	U	U	U	U	U	U	U	U	U
2 2-oxybis (1-chloropropane)			U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine			U	U	U	U	U	U	U	U	U	U
Hexachloroethane			U	U	U	U	U	U	U	U	U	U
4-Methylphenol	0.33	500	U	0.1 J	U	U	U	U	U	U	U	U
2-Chlorophenol			U	U	U	U	U	U	U	U	U	U
Nitrobenzene		69	U	U	U	U	U	U	U	U	U	U
Bis(2-chloroethoxy)methane			U	U	U	U	U	U	U	U	U	U
1 2 4-Trichlorobenzene			U	U	U	U	U	U	U	U	U	U
Isophorone			U	U	U	U	U	U	U	U	U	U
2 4-Dimethylphenol			U	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene			U	U	U	U	U	U	U	U	U	U
Naphthalene	12	500	0.071 J	0.059 J	0.077 J	U	0.064 J	U	U	U	U	U
2 4-Dichlorophenol			U	U	U	U	U	U	U	U	U	U
4-Chloroaniline			U	U	U	U	U	U	U	U	U	U
2 4 6-Trichlorophenol			U	U	U	U	U	U	U	U	U	U
2 4 5-Trichlorophenol			U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene			U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene			U	U	U	U	U	U	U	U	U	U
2-Nitroaniline			U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene			U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol			U	U	U	U	U	U	U	U	U	U
2 6-Dinitrotoluene			U	U	U	U	U	U	U	U	U	U
2-Nitrophenol			U	U	U	U	U	U	U	U	U	U
3-Nitroaniline			U	U	U	U	U	U	U	U	U	U
Dimethyl phthalate			U	U	U	U	U	U	U	U	U	U
2 4-Dinitrophenol			U	U	U	U	U	U	U	U	U	U
Acenaphthylene	100	500	U	0.36 J	U	U	U	0.2 J	0.29 J	0.32 J	0.8	0.17 J
2 4-Dinitrotoluene			U	U	U	U	U	U	U	U	U	U
Acenaphthene	20	500	U	U	U	U	U	U	U	U	U	U
Dibenzofuran			U	U	U	U	U	U	U	U	U	U
4-Nitrophenol			U	U	U	U	U	U	U	U	U	U
Fluorene	30	500	U	0.069 J	U	U	U	U	U	U	0.1 J	U
4-Nitroaniline			U	U	U	U	U	U	U	U	U	U
4-Bromophenyl phenyl ether			U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene			U	U	U	U	U	U	U	U	U	U
Diethyl phthalate			U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl phenyl ether			U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	0.8	6.7	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine			U	U	U	U	U	U	U	U	U	U
4 6-Dinitro-2-methylphenol			U	U	U	U	U	U	U	U	U	U
Phenanthrene	100	500	U	0.79	U	U	U	0.21 J	0.22 J	0.19 J	0.46	0.14 J
Anthracene	100	500	U	0.41	U	U	U	0.14 J	0.18 J	0.18 J	0.38	U
Carbazole			U	0.072 J	U	U	U	U	U	U	0.083 J	U
Di-n-butyl phthalate			U	U	U	U	U	U	U	U	U	U
Fluoranthene	100	500	U	1.2	U	U	U	0.57	0.65	1.1	1.2	0.41 J
Pyrene	100	500	U	1.2	U	U	U	0.61	0.73	0.81	0.9	0.32 J
Butyl benzyl phthalate			U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	1	5.6	U	**1.3**	U	U	U	0.53	0.69	0.85	**1.1**	0.26 J
Chrysene	1	56	U	**1.2**	U	U	U	0.46	0.61	**1**	**1.1**	0.28 J
3 3-Dichlorobenzidine			U	U	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate			U	0.055 J	U	U	U	U	0.13 J	U	0.17 J	9.4
Di-n-octyl phthalate			U	U	U	U	U	U	U	U	U	0.66 J
Benzo(b)fluoranthene	1	5.6	0.082 J	**1.4**	U	U	U	0.72	0.81	**1.4**	**1.7**	0.44 J
Benzo(k)fluoranthene	0.8	56	U	0.53	U	U	U	0.22 J	0.33 J	0.46	0.57	0.17 J
Benzo(a)pyrene	1	1	U	**1.1**	U	U	U	0.53	0.62	0.98	**1.1**	0.3 J
Indeno(1 2 3-cd)pyrene	0.5	5.6	0.12 J	**1.3**	U	U	U	0.49	0.49	**0.61**	**0.68**	0.2 J
Dibenzo(a h)anthracene	0.33	0.56	U	**0.36 J**	U	U	U	0.12 J	0.14 J	0.15 J	0.17 J	U
Benzo(ghi)perylene	100	500	0.11 J	1.1	U	0.13 J	U	0.45	0.51	0.51	0.67	0.18 J
Total SVOCs			0.383	12.677	0.077	0.13	0.064	5.25	6.4	8.56	11.183	12.93

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U - Not Detected

J- Estimated value, below detection limits

B - Compound detected in method blank

NA - Compound not analyzed for

M - Manually integrated compound

Table 2D: (Page 5 of 5). IRM-2 Soil Sample Laboratory Analytical Results. Excavation End-Point and Surface Soil Samples. S&W, 2007. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives: Unrestricted Use	Soil Cleanup Objectives: Commercial Use	SURFACE SOIL (SS-2N) North Sidewall	SURFACE SOIL (SS-2S) South Sidewall	SURFACE SOIL (SS-2E) East Sidewall	SURFACE SOIL (SS-2W) West Sidewall	SURFACE SOIL (SS-2B) Bottom	BAY 2 DRAIN (B-2) SEDIMENT*	BAY 3 (B3) SUMP*	HYDRAULIC LIFT (H1 SIDEWALL)	HYDRAULIC LIFT (H2 BOTTOM)
SVOCs by EPA 8270C											
Phenol	0.33	500	U	U	U	U	U	U	U	U	U
Bis(2-chloroethyl)ether			U	U	U	U	U	U	U	U	U
1 3-Dichlorobenzene	2.4	280	U	U	U	U	U	U	U	U	U
1 4-Dichlorobenzene	1.8	130	U	U	U	U	U	U	U	U	U
1 2-Dichlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U
Benzyl alcohol			U	U	U	U	U	U	U	U	U
2-Methylphenol	0.33	500	U	U	U	U	U	U	U	U	U
2 2-oxybis (1-chloropropane)			U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine			U	U	U	U	U	U	U	U	U
Hexachloroethane			U	U	U	U	U	U	U	U	U
4-Methylphenol	0.33	500	U	U	U	U	U	U	U	U	U
2-Chlorophenol			U	U	U	U	U	U	U	U	U
Nitrobenzene		69	U	U	U	U	U	U	U	U	U
Bis(2-chloroethoxy)methane			U	U	U	U	U	U	U	U	U
1 2 4-Trichlorobenzene			U	U	U	U	U	U	U	U	U
Isophorone			U	U	U	U	U	U	U	U	U
2 4-Dimethylphenol			U	U	U	U	U	U	U	U	U
Hexachlorobutadiene			U	U	U	U	U	U	U	U	U
Naphthalene	12	500	0.63 J	0.38 J	0.84 J	0.19 J	0.68 J	1.8	U	U	0.064 J
2 4-Dichlorophenol			U	U	U	U	U	U	U	U	U
4-Chloroaniline			U	U	U	U	U	U	U	U	U
2 4 6-Trichlorophenol			U	U	U	U	U	U	U	U	U
2 4 5-Trichlorophenol			U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene			U	U	U	U	U	U	U	U	U
2-Methylnaphthalene			U	0.14 J	U	0.076 J	U	3.2	U	U	U
2-Nitroaniline			U	U	U	U	U	U	U	U	U
2-Chloronaphthalene			U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol			U	U	U	U	U	U	U	U	U
2 6-Dinitrotoluene			U	U	U	U	U	U	U	U	U
2-Nitrophenol			U	U	U	U	U	U	U	U	U
3-Nitroaniline			U	U	U	U	U	U	U	U	U
Dimethyl phthalate			U	U	U	U	U	U	U	U	U
2 4-Dinitrophenol			U	U	U	U	U	U	U	U	U
Acenaphthylene	100	500	0.6 J	0.8	0.87 J	0.64	2	U	0.73	0.41	0.46
2 4-Dinitrotoluene			U	U	U	U	U	U	U	U	U
Acenaphthene	20	500	1.5	1.1	2.5	0.45	0.97 J	U	U	U	U
Dibenzofuran			0.86 J	0.58 J	1.3 J	0.35 J	0.54 J	U	U	U	U
4-Nitrophenol			U		U	U	U	U	U	U	U
Fluorene	30	500	1.1 J	0.87	1.9	0.38 J	0.9 J	0.39 J	U	U	0.072 J
4-Nitroaniline			U	U	U	U	U	U	U	U	U
4-Bromophenyl phenyl ether			U	U	U	U	U	U	U	U	U
Hexachlorobenzene			U	U	U	U	U	U	U	U	U
Diethyl phthalate			U	U	U	U	U	U	U	U	U
4-Chlorophenyl phenyl ether			U	U	U	U	U	U	U	U	U
Pentachlorophenol	0.8	6.7	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine			U	U	U	U	U	U	U	U	U
4 6-Dinitro-2-methylphenol			U	U	U	U	U	U	U	U	U
Phenanthrene	100	500	11	9.1	19	4.1	8.1	0.44 J	0.51	0.43	0.53
Anthracene	100	500	2.5	2.4	4.4	1.1	2.6	0.11 J	0.39	0.28 J	0.48
Carbazole			1.7	1.3	3.1	0.55	1.1 J	0.086 J	0.093 J	0.073 J	U
Di-n-butyl phthalate			U	U	U	U	U	U	U	U	U
Fluoranthene	100	500	13	12	25	6	14	1	1.8	1.6	1.4
Pyrene	100	500	9.4	9.1	12	4.2	6.9	0.67	1.5	1	1.5
Butyl benzyl phthalate			U	U		U	U	0.085 J	U	U	U
Benzo(a)anthracene	1	5.6	**7.1**	**6.9**	**11**	**3.5**	**7.1**	0.29 J	**1.4**	**1.1**	**1.7**
Chrysene	1	56	**6.7**	**6.9**	**12**	**3.5**	**7.1**	0.58	**1.4**	**1.1**	**2.1**
3 3-Dichlorobenzidine			U	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate			U	U	U	U	U	2.3	0.18 J	U	U
Di-n-octyl phthalate			U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	1	5.6	**6.8**	**6.6**	**15**	**3.1**	**9.4**	0.68	**1.9**	**1.4**	**1.4**
Benzo(k)fluoranthene	0.8	56	**2.6**	**2.8**	**5.5**	**1.2**	**3.3**	0.23 J	0.67	0.55	0.15 J
Benzo(a)pyrene	1	1	**5.6**	**5.8**	**10**	U	**6.4**	0.38 J	**1.4**	**1**	0.89
Indeno(1 2 3-cd)pyrene	0.5	5.6	**3.7**	**3.5**	**5.1**	**1.6**	**3.3**	0.33 J	**1.3**	**0.59**	**0.52**
Dibenzo(a h)anthracene	0.33	0.56	**0.93 J**	**0.85**	**1.4 J**	**0.37 J**	**0.83 J**	U	**0.33 J**	0.15	0.12 J
Benzo(ghi)perylene	100	500	2.8	2.5	3.7	1.2	2.5	0.28 J	1.2	0.46	0.44
Total SVOCs			78.52	73.62	134.61	32.506	77.72	12.851	14.803	10.143	11.826

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U - Not Detected

J- Estimated value, below detection limits

B - Compound detected in method blank

NA - Compound not analyzed for

M - Manually integrated compound

* - sample was collected from sediment in floor drain sumps, all material was containerized and transported off-Site for proper disposal

Table 2E: (Page 1 of 2). Supplemental Soil Sample Laboratory Analytical Results. SWRNA 2008.
Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification			
			On-Site Subsurface Soil Samples			
	Unrestricted Use	Commercial Use	MW17-1		MW17-2	
Sample Date			Sep-08		Sep-08	
Sample Depth			7.5' - 8'		13' - 14'	
EPA Method 8260B						
Chloromethane				U		U
Bromomethane				U		U
Vinyl chloride	0.02	13		U		U
Chloroethane				U		U
Methylene chloride	0.05	500	0.016	J	0.011	J
Acetone	0.05	500	0.0063	J	**0.064**	
Carbon disulfide				U		U
1 1-Dichloroethene	0.33	500		U		U
1 1-Dichloroethane	0.27	240		U		U
trans-1 2-Dichloroethene	0.19	500		U		U
cis-1 2-Dichloroethene	0.25	500		U		U
Chloroform	0.37	350		U		U
1 2-Dichloroethane	0.02	30		U		U
2-Butanone (MEK)	0.12	500		U		U
1 1 1-Trichloroethane	0.68	500		U		U
Carbon tetrachloride	0.76	22		U		U
Bromodichloromethane				U		U
1 2-Dichloropropane				U		U
cis-1 3-Dichloropropene				U		U
Trichloroethene	0.47	200	0.013		0.0043	J
Dibromochloromethane				U		U
1 1 2-Trichloroethane				U		U
Benzene	0.06	44		U		U
trans-1 3-Dichloropropene				U		U
Bromoform				U		U
4-Methyl-2-pentanone (MIBK)				U		U
2-Hexanone				U		U
Tetrachloroethene	1.3	150	0.013			U
1 1 2 2-Tetrachloroethane				U		U
Toluene	0.7	500	0.0073		0.0031	J
Chlorobenzene	1.1	500		U		U
Ethylbenzene	1	390		U		U
Styrene				U		U
Xylenes (total)	0.26	500		U		U
Naphthalene	12	500	0.0024	J	0.0021	J
Total VOCs			0.058		0.0845	

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

J The result is < quantitation limit, but > zero. The concentration reported is an approximate value.

Table 2E: (Page 2 of 2). Supplemental Soil Sample Laboratory Analytical Results. SWRNA 2008.
Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification	
	Unrestricted Use	Commercial Use	Soil End Point	
Sample Date			Sep-08	
Sample Depth			10 inches	
EPA Method 8270C				
Phenol	0.33	500		U
Bis(2-chloroethyl)ether				U
1 3-Dichlorobenzene	2.4	280		U
1 4-Dichlorobenzene	1.8	130		U
1 2-Dichlorobenzene	1.1	500		U
Benzyl alcohol				U
2-Methylphenol				U
2 2-oxybis (1-chloropropane)				U
n-Nitroso-di-n-propylamine				U
Hexachloroethane				U
4-Methylphenol				U
2-Chlorophenol				U
Nitrobenzene		69		U
Bis(2-chloroethoxy)methane				U
1 2 4-Trichlorobenzene				U
Isophorone				U
2 4-Dimethylphenol				U
Hexachlorobutadiene				U
Naphthalene	12	500	0.21	
2 4-Dichlorophenol				U
4-Chloroaniline				U
2 4 6-Trichlorophenol				U
2 4 5-Trichlorophenol				U
Hexachlorocyclopentadiene				U
2-Methylnaphthalene			0.093	J
2-Nitroaniline				U
2-Chloronaphthalene				U
4-Chloro-3-methylphenol				U
2 6-Dinitrotoluene				U
2-Nitrophenol				U
3-Nitroaniline				U
Dimethyl phthalate				U
2 4-Dinitrophenol				U
Acenaphthylene	100	500	0.17	J
2 4-Dinitrotoluene				U
Acenaphthene	20	500	0.5	
Dibenzofuran			0.28	J
4-Nitrophenol				U
Fluorene	30	500	0.4	
4-Nitroaniline				U
4-Bromophenyl phenyl ether				U
Hexachlorobenzene	0.33	6		U
Diethyl phthalate				U
4-Chlorophenyl phenyl ether				U
Pentachlorophenol	0.8	6.7		U
n-Nitrosodiphenylamine				U
4 6-Dinitro-2-methylphenol				U
Phenanthrene	100	500	3.6	
Anthracene	100	500	0.92	
Carbazole			0.6	
Di-n-butyl phthalate				U
Fluoranthene	100	500	4.4	
Pyrene	100	500	3.8	
Butyl benzyl phthalate				U
Benzo(a)anthracene	1	5.6	**2.5**	
Chrysene	1	56	**2.5**	
3 3-Dichlorobenzidine				U
Bis(2-ethylhexyl)phthalate				U
Di-n-octyl phthalate				U
Benzo(b)fluoranthene	1	5.6	**2.6**	
Benzo(k)fluoranthene	0.8	56	**1.1**	
Benzo(a)pyrene	1	1	**2.3**	
Indeno(1 2 3-cd)pyrene	0.5	5.6	**1.5**	
Dibenzo(a h)anthracene	0.33	0.56	**0.4**	
Benzo(ghi)perylene	100	500		U
Total SVOCs			27.873	

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

J The result is less than the quantitation limit, but greater than zero. The concentration reported is an approximate value.

Table 3: (Page 1 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[1] Class GA	On-Site Monitoring Wells									
		MW-3									
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07	Aug-08	Mar-09
VOCs by EPA 8260B											
1,1,1-Trichloroethane	5						U	U	U	U	U
1,1,2,2-Tetrachloroethane	5						U	U	U	U	U
1,1,2-Trichloroethane	1						U	U	U	U	U
1,1-Dichloroethane	5						U	U	U	U	U
1,1-Dichloroethene	5						U	U	U	U	U
1,2-Dichloropropane	1						U	U	U	U	U
1,2-Dichloroethane	0.6						U	U	U	U	U
1,2,4-Trimethylbenzene	5			**2,500**	**48**	**470**					
1,3,5-Trimethylbenzene	5			**1,100**	**68**	**87**					
2-Butanone (MEK)	50 (G)						U	U	U	U	U
2-Hexanone	50 (G)						U	U	U	U	U
4-Methyl-2-pentanone (MIBK)							U	U	U	U	U
4-Isopropyltoluene	5				4	**14.3**					
Acetone	50 (G)						U	U	U	U	U
Benzene	1			U	U	U	U	U	U	U	U
Bromodichloromethane	50 (G)						U	U	U	U	U
Bromoform	50 (G)						U	U	U	U	U
Bromomethane	5						U	U	U	U	U
n-Butylbenzene	5			**79**	U	U					
sec-Butylbenzene	5			U	**5.1**	**8.13**					
tert-Butylbenzene	5					U					
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	5						U	U	U	U	U
Chlorobenzene	5						U	U	U	U	U
Chloroethane	5						U	U	U	U	U
Chloroform	7						U	U	U	U	U
Chloromethane							U	0.42 J	U	U	U
cis-1,2-Dichlorothene	5						U	U	U	U	U
cis-1,3-Dichloropropene	0.4						U	U	U	U	U
Dibromochloromethane	50 (G)						U	U	U	U	U
Ethylbenzene	5	**380**	**400**	**470**	**48**	**45.3**	**27**	**17**	**18**	**14**	**25**
Isopropylbenzene	5			**79**	**17**	**27.7**					
Methylene chloride	5						0.68 JB	U	U	U	U
n-Propylbenzene	5			**150**	**50**	**83**					
Styrene	5						U	U	U	U	U
Tetrachloroethene	5						U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5						U	U	U	U	U
trans-1,3-Dichloropropene	0.4						U	U	U	U	U
Trichloroethene	5						U	U	U	U	U
Vinyl Chloride	2						U	U	U	U	U
Xylenes (total)	5	**1,600**	**1,800**	**230**	**150**	**180.86**	**88**	**61**	**53**	**46**	**99**
MTBE	10 (G)				U	U	U	U	U	U	U
Naphthalene	10 (G)						**14**	**10**	**10**	**19**	**67**
TOTAL VOCs		1,980	2,200	4,608	390.1	916.29	129.68	88.42	81	79	191

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

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U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result < quantitation limit, but > zero. Reported concentration is an approximate value.

Table 3: (Page 2 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	On-Site Monitoring Wells									
		MW-4									
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07	Aug-08	Mar-09
VOCs by EPA 8260B											
1,1,1-Trichloroethane	5						U	U	U	U	U
1,1,2,2-Tetrachloroethane	5						U	U	U	U	U
1,1,2-Trichloroethane	1						U	U	U	U	U
1,1-Dichloroethane	5						U	U	U	U	U
1,1-Dichloroethene	5						U	U	U	U	U
1,2-Dichloropropane	1						U	U	U	U	U
1,2-Dichloroethane	0.6						U	U	U	U	U
1,2,4-Trimethylbenzene	5			**3,500**	**870**	**2,410**					
1,3,5-Trimethylbenzene	5			**1,900**	**300**	**485**					
2-Butanone (MEK)	50 (G)						U	U	U	U	U
2-Hexanone	50 (G)						U	U	U	U	U
4-Methyl-2-pentanone (MIBK)							U	U	U	U	U
4-Isopropyltoluene	5				U	**51.7**					
Acetone	50 (G)						U	20 UJ	U	U	U
Benzene	1			U	U	U	U	U	U	U	U
Bromodichloromethane	50 (G)						U	U	U	U	U
Bromoform	50 (G)						U	U	U	U	U
Bromomethane	5						U	U	U	U	U
n-Butylbenzene	5			**85**	U	U					
sec-Butylbenzene	5			**54**	U	**25.7**					
tert-Butylbenzene	5					U					
Carbon disulfide	60 (G)	**350**	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	5						U	U	U	U	U
Chlorobenzene	5						U	U	U	U	U
Chloroethane	5						U	U	U	U	U
Chloroform	7						U	U	U	U	U
Chloromethane							U	U	U	U	U
cis-1,2-Dichlorothene	5						U	U	U	U	U
cis-1,3-Dichloropropene	0.4						U	U	U	U	U
Dibromochloromethane	50 (G)						U	U	U	U	U
Ethylbenzene	5	**340**	**270**	**390**	**83**	**183**	U	**88**	**74**	2.7 J	**89**
Isopropylbenzene	5			**140**	U	**76.5**					
Methylene chloride	5						B	UJ	U	U	U
n-Propylbenzene	5			**410**	U	**290**					
Styrene	5						U	U	U	U	U
Tetrachloroethene	5						U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5						U	U	U	U	U
trans-1,3-Dichloropropene	0.4						U	U	U	U	U
Trichloroethene	5						U	U	U	U	U
Vinyl Chloride	2						U	U	U	U	U
Xylenes (total)	5	**1,400**	**1,200**	**1,600**	**710**	**628**	U	**320**	**230**	**250**	**230**
MTBE	10 (G)				U	U	U	U	U	U	U
Naphthalene	10 (G)						U	**37**	**48**	U	**110**
TOTAL VOCs		2,090	1,470	8,079	1,963	4,149.9	ND	465	352	252.7	429

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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Table 3: (Page 3 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	On-Site Monitoring Wells								
		MW-6								
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07	Aug-08
VOCs by EPA 8260B										
1,1,1-Trichloroethane	5						U	U	U	U
1,1,2,2-Tetrachloroethane	5						U	U	U	U
1,1,2-Trichloroethane	1						U	U	U	U
1,1-Dichloroethane	5						U	U	U	U
1,1-Dichloroethene	5						U	U	U	U
1,2-Dichloropropane	1						U	U	U	U
1,2-Dichloroethane	0.6						U	U	U	U
1,2,4-Trimethylbenzene	5			**380**	**350**	**63.6**				
1,3,5-Trimethylbenzene	5			**190**	**110**	**14.2**				
2-Butanone (MEK)	50 (G)						U	U	U	U
2-Hexanone	50 (G)						U	U	U	U
4-Methyl-2-pentanone (MIBK)							U	U	U	U
4-Isopropyltoluene	5				**7.2**	1.18				
Acetone	50 (G)						U	U	U	5.7 J
Benzene	1			U	U	U	U	U	U	U
Bromodichloromethane	50 (G)						U	U	U	U
Bromoform	50 (G)						U	U	U	U
Bromomethane	5						U	U	U	U
n-Butylbenzene	5			**26**	U	U				
sec-Butylbenzene	5			U	**12**	3.01				
tert-Butylbenzene	5					1.16				
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	5						U	U	U	U
Chlorobenzene	5						U	U	U	U
Chloroethane	5						U	U	U	U
Chloroform	7						U	U	U	U
Chloromethane							U	U	U	U
cis-1,2-Dichlorothene	5						U	U	U	U
cis-1,3-Dichloropropene	0.4						U	U	U	U
Dibromochloromethane	50 (G)						U	U	U	U
Ethylbenzene	5	**65**	U	**36**	**26**	3.84	U	**7.4**	**10**	**14**
Isopropylbenzene	5			U	**38**	3				
Methylene chloride	5						0.50 JB	U	U	U
n-Propylbenzene	5			**36**	**120**	**8.83**				
Styrene	5						U	U	U	U
Tetrachloroethene	5						U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5						U	U	U	U
trans-1,3-Dichloropropene	0.4						U	U	U	U
Trichloroethene	5						U	U	U	U
Vinyl Chloride	2						U	U	U	U
Xylenes (total)	5	**290**	**110**	**150**	**61**	**17.98**	U	**8.9**	**12**	**30**
MTBE	10 (G)				1.3	U	U	U	U	U
Naphthalene	10 (G)						U	2.8	U	9.4
TOTAL VOCs							0.5	19.1	22	59.1

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result < quantitation limit, but > zero. Reported concentration is an approximate value.

Table 3: (Page 4 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS(1) Class GA	On-Site Monitoring Wells							
		MW-16			MW-17			TW-1	TW-2
		Sep-07	Nov-07	Aug-08	Sep-07	Nov-07	Aug-08	Sep-14	Sep-14
VOCs by EPA 8260B									
1,1,1-Trichloroethane	5	U	U	U	NS	NS	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	NS	NS	U	U	U
1,1,2-Trichloroethane	1	U	U	U	NS	NS	U	U	U
1,1-Dichloroethane	5	U	U	U	NS	NS	U	U	U
1,1-Dichloroethene	5	U	U	U	NS	NS	U	U	U
1,2-Dichloropropane	1	U	U	U	NS	NS	U	U	U
1.2-Dichloroethane	0.6	U	U	U	NS	NS	U	U	U
2-Butanone (MEK)	50 (G)	U	U	U	NS	NS	U	U	5.8
2-Hexanone	50 (G)	U	U	U	NS	NS	U	U	U
4-Methyl-2-pentanone (MIBK)		U	U	U	NS	NS	U	U	U
Acetone	50 (G)	U	U	U	NS	NS	U	U	6.3
Benzene	1	U	U	U	NS	NS	U	U	U
Bromodichloromethane	50 (G)	U	U	U	NS	NS	U	U	U
Bromoform	50 (G)	U	U	U	NS	NS	U	U	U
Bromomethane	5	U	U	U	NS	NS	U	U	U
Carbon disulfide	60 (G)	U	U	U	NS	NS	U	U	U
Carbon tetrachloride	5	U	U	U	NS	NS	U	U	U
Chlorobenzene	5	U	U	U	NS	NS	U	U	U
Chloroethane	5	U	U	U	NS	NS	U	U	U
Chloroform	7	U	U	U	NS	NS	U	U	U
Chloromethane		U	U	U	NS	NS	U	U	U
cis-1,2-Dichlorothene	5	U	U	U	NS	NS	U	U	U
cis-1,3-Dichloropropene	0.4	U	U	U	NS	NS	U	U	U
Dibromochloromethane	50 (G)	U	U	U	NS	NS	U	U	U
Ethylbenzene	5	U	U	U	NS	NS	U	**250**	U
Methylene chloride	5	U	U	U	NS	NS	U	U	U
Styrene	5	U	U	U	NS	NS	U	U	U
Tetrachloroethene	5	U	U	U	NS	NS	3.1 J	U	U
Toluene	5	U	U	U	NS	NS	U	U	U
trans-1,2-Dichloroethene	5	U	U	U	NS	NS	U	U	U
trans-1,3-Dichloropropene	0.4	U	U	U	NS	NS	U	U	U
Trichloroethene	5	U	U	U	NS	NS	U	U	U
Vinyl Chloride	2	U	U	U	NS	NS	U	U	U
Xylenes (total)	5	U	U	U	NS	NS	U	**463**	2.2
MTBE	10 (G)	U	U	U	NS	NS	U	U	U
Naphthalene	10 (G)	U	U	U	NS	NS	U		
TOTAL VOCs		ND	ND	ND	NS	NS	3.1	713	14.3

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

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Table 3: (Page 5 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS(1) Class GA	Off-Site Monitoring Wells									
		MW-10									
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07	Aug-08	Mar-09
VOCs by EPA 8260B											
1,1,1-Trichloroethane	5						U	U	U	U	U
1,1,2,2-Tetrachloroethane	5						U	U	U	U	U
1,1,2-Trichloroethane	1						U	U	U	U	U
1,1-Dichloroethane	5						U	U	U	U	U
1,1-Dichloroethene	5						U	U	U	U	U
1,2-Dichloropropane	1						U	U	U	U	U
1,2-Dichloroethane	0.6						U	U	U	U	U
1,2,4-Trimethylbenzene	5			**230**	**200**	**322**					
1,3,5-Trimethylbenzene	5			**65**	**17**	**15.9**					
2-Butanone (MEK)	50 (G)						U	U	U	U	U
2-Hexanone	50 (G)						U	U	U	U	U
4-Methyl-2-pentanone (MIBK)							U	U	U	U	U
4-Isopropyltoluene	5				2.8	4.37					
Acetone	50 (G)						1.5 J	U	U	U	U
Benzene	1			**20**	**2.6**	U	0.47 J	0.41 J	U	U	U
Bromodichloromethane	50 (G)						U	U	U	U	U
Bromoform	50 (G)						U	U	U	U	U
Bromomethane	5						U	U	U	U	U
n-Butylbenzene	5			U	U	U					
sec-Butylbenzene	5			U	**9.2**	**6.1**					
tert-Butylbenzene	5					U					
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	5						U	U	U	U	U
Chlorobenzene	5						U	U	U	U	U
Chloroethane	5						U	U	U	U	U
Chloroform	7						U	U	U	U	U
Chloromethane							U	U	U	U	U
cis-1,2-Dichlorothene	5						U	U	U	U	U
cis-1,3-Dichloropropene	0.4						U	U	U	U	U
Dibromochloromethane	50 (G)						U	U	U	U	U
Ethylbenzene	5	**5.1**	**9.1**	**280**	**55**	**90.8**	**6.2**	0.47 J	U	2 J	**39**
Isopropylbenzene	5			U	**25**	**22.7**					
Methylene chloride	5						0.55 JHB	U	U	U	U
n-Propylbenzene	5			U	**75**	**46.3**					
Styrene	5						U	U	U	U	U
Tetrachloroethene	5						U	U	U	U	U
Toluene	5	U	U	U	1.9	2.18	0.48 J	**5**	U	U	U
trans-1,2-Dichloroethene	5						U	U	U	U	U
trans-1,3-Dichloropropene	0.4						U	U	U	U	U
Trichloroethene	5						U	U	U	U	U
Vinyl Chloride	2						U	U	U	U	U
Xylenes (total)	5	**38**	**20**	**510**	**300**	**575.79**	**96**	**66**	**77**	**240**	**110**
MTBE	10 (G)				U	U	U	0.79 J	U	U	U
Naphthalene	10 (G)						9	**11**	**14**	**49**	**16**
TOTAL VOCs		43.1	29.1	1,105	688.5	1,086.14	114.2	83.67	91	291	165

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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U The compound was not detected at the method detection level.

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Table 3: (Page 6 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS(1) Class GA	Off-Site Monitoring Wells							
		MW-13				MW-14			
		Oct-06	Sep-07	Nov-07	Aug-08	Oct-06	Sep-07	Nov-07	Aug-08
VOCs by EPA 8260B									
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50 (G)	B	U	U	U	B	U	U	U
2-Hexanone	50 (G)	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)		U	U	U	U	U	U	U	U
Acetone	50 (G)	U	U	U	1.4 J	U	U	U	U
Benzene	1	H	U	U	U	U	U	U	U
Bromodichloromethane	50 (G)	U	U	U	U	U	U	U	U
Bromoform	50 (G)	U	U	U	U	U	U	U	U
Bromomethane	5	U	U	U	U	U	U	U	U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U
Carbon tetrachloride	5	U	U	U	U	U	U	U	U
Chlorobenzene	5	U	U	U	U	U	U	U	U
Chloroethane	5	U	U	U	U	U	U	U	U
Chloroform	7	U	U	U	U	U	U	U	U
Chloromethane		U	U	U	U	U	U	U	U
cis-1,2-Dichlorothene	5	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U
Dibromochloromethane	50 (G)	U	U	U	U	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	U	U	U
Methylene chloride	5	0.52 JB	U	U	U	0.49 JB	U	U	U
Styrene	5	U	U	U	U	U	U	U	U
Tetrachloroethene	5	U	U	U	U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U
Trichloroethene	5	U	U	U	U	U	U	U	U
Vinyl Chloride	2	U	U	U	U	U	U	U	U
Xylenes (total)	5	U	U	U	U	U	3.6 J	2.2 J	U
MTBE	10 (G)	U	U	U	U	U	U	U	U
Naphthalene	10 (G)	U	U	U	U	U	0.72	1.3	U
TOTAL VOCs		0.52	ND	ND	1.4	0.49	4.32	3.5	ND

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result < quantitation limit, but > zero. Reported concentration is an approximate value.

H Concentration is calculated by hand and is an approximation.

Table 3: (Page 7 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[1] Class GA	Off-Site Monitoring Wells									
		MW-15									
		Oct-06		Sep-07		Nov-07		Aug-08		Mar-09	
VOCs by EPA 8260B											
1,1,1-Trichloroethane	5		U		U		U		U		U
1,1,2,2-Tetrachloroethane	5		U		U		U		U		U
1,1,2-Trichloroethane	1		U		U		U		U		U
1,1-Dichloroethane	5		U		U		U		U		U
1,1-Dichloroethene	5		U		U		U		U		U
1,2-Dichloropropane	1		U		U		U		U		U
1.2-Dichloroethane	0.6		U		U		U		U		U
2-Butanone (MEK)	50 (G)		B		U		U		U		U
2-Hexanone	50 (G)		U		U		U		U		U
4-Methyl-2-pentanone (MIBK)			U		U		U		U		U
Acetone	50 (G)	1.7	J		U		U		U		U
Benzene	1		U		U		U		U		U
Bromodichloromethane	50 (G)		U		U		U		U		U
Bromoform	50 (G)		U		U		U		U		U
Bromomethane	5		U		U		U		U		U
Carbon disulfide	60 (G)		U		U		U		U		U
Carbon tetrachloride	5		U		U		U		U		U
Chlorobenzene	5		U		U		U		U		U
Chloroethane	5		U		U		U		U		U
Chloroform	7		U		U		U		U		U
Chloromethane			U		U		U		U		U
cis-1,2-Dichlorothene	5		U		U		U		U		U
cis-1,3-Dichloropropene	0.4		U		U		U		U		U
Dibromochloromethane	50 (G)		U		U		U		U		U
Ethylbenzene	5		U		U		U		U		U
Methylene chloride	5	0.54	JB		U		U		U		U
Styrene	5		U		U		U		U		U
Tetrachloroethene	5		U		U		U		U		U
Toluene	5		U		U		U		U		U
trans-1,2-Dichloroethene	5		U		U		U		U		U
trans-1,3-Dichloropropene	0.4		U		U		U		U		U
Trichloroethene	5		U		U		U		U		U
Vinyl Chloride	2		U		U		U		U		U
Xylenes (total)	5	4.5	J		U		U		U		U
MTBE	10 (G)		U		U		U		U		U
Naphthalene	10 (G)	1			U		U		U		U
TOTAL VOCs		7.74		ND		ND		ND		ND	

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

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Table 3: (Page 8 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS(1) Class GA	On-Site Monitoring Wells MW-2							
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C									
1,2,4-Trichlorobenzene	5						U	NS	NS
1,2-Dichlorobenzene	3						U	NS	NS
1,3 -Dichlorobenzene	3						U	NS	NS
1,4-Dichlorobenzene	3						U	NS	NS
2,2-oxybis (1-cholorpropane)							U	NS	NS
2,4,5-Trichlorophenol							U	NS	NS
2,4,6-Trichlorophenol							U	NS	NS
2,4-Dichlorophenol	5						U	NS	NS
2,4-Dimethylphenol	50(G)						U	NS	NS
2,4-Dinitrophenol	10(G)						U	NS	NS
2,4-Dinitrotoluene	5						U	NS	NS
2,6-Dinitrotoluene	5						U	NS	NS
2-Chloronaphthalene	10(G)						U	NS	NS
2-Chlorophenol							U	NS	NS
2-Methylnaphthalene		U	U	U	U	U	U	NS	NS
2-Methylphenol							U	NS	NS
2-Nitroaniline	5						U	NS	NS
2-Nitrophenol							U	NS	NS
3,3-Dichlorobenzidine	5						U	NS	NS
3-Nitroaniline	5						U	NS	NS
4,6-Dinitro-2-methylphenol							U	NS	NS
4-Bromophenyl phenyl ether							U	NS	NS
4-Chloro-3-methylphenol							U	NS	NS
4-Chloroaniline	5						U	NS	NS
4-Chlorophenyl phenyl ether							U	NS	NS
4-Methylphenol							U	NS	NS
4-Nitroaniline	5						U	NS	NS
4-Nitrophenol							U	NS	NS
Acenaphthene	20(G)						U	NS	NS
Acenaphthylene							U	NS	NS
Anthracene	50(G)						U	NS	NS
Benzo(a)anthracene	0.002(G)						U	NS	NS
Benzo(a)pyrene	ND						U	NS	NS
Benzo(b)fluoranthene	0.002(G)						U	NS	NS
Benzo(k)fluoranthene	0.002(G)						U	NS	NS
Benzyl alcohol							U	NS	NS
Bis (2-chloroethyl) ether	1						U	NS	NS
Bis(2-chloroethoxy)methane	5						U	NS	NS
Bis(2-ethylhexyl)phthalate	5						U	NS	NS
Butyl benzyl phthalate	50(G)						U	NS	NS
Carbazole							U	NS	NS
Chrysene	0.002(G)						U	NS	NS
Dibenzo(a,h)anthracene							U	NS	NS
Dibenzofuran							U	NS	NS
Diethyl phthalate	50(G)						U	NS	NS
Dimethyl phthalate	50(G)						U	NS	NS
Di-n-butyl phthalate	50						U	NS	NS
Di-n-octyl phthalate	50(G)						U	NS	NS
Fluoranthene	50(G)						U	NS	NS
Fluorene	50(G)						U	NS	NS
Hexachlorobenzene	0.04						U	NS	NS
Hexachlorobutadiene	0.5						U	NS	NS
Hexachlorocyclopentadiene	5						U	NS	NS
Hexachloroethane	5						U	NS	NS
Indeno(1,2,3-cd)pyrene	0.002(G)						U	NS	NS
Isophorone	50(G)						U	NS	NS
Naphthalene	10(G)	U	U	U	U	U	U	NS	NS
Nitrobenzene	0.4						U	NS	NS
n-Nitroso-di-n-propylamine							U	NS	NS
n-Nitrosodiphenylamine	50(G)						U	NS	NS
Pentachlorophenol	1						U	NS	NS
Phenanthrene	50(G)						U	NS	NS
Phenol	1						U	NS	NS
Pyrene	50(G)						U	NS	NS
TOTAL SVOCs		ND	ND	ND	ND	ND	ND	NS	NS

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Table 3: (Page 9 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[1] Class GA	On-Site Monitoring Wells							
		MW-3							
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C									
1,2,4-Trichlorobenzene	5						U	U	U
1,2-Dichlorobenzene	3						U	U	U
1,3 -Dichlorobenzene	3						U	U	U
1,4-Dichlorobenzene	3						U	U	U
2,2-oxybis (1-cholorpropane)							U	U	U
2,4,5-Trichlorophenol							U	U	U
2,4,6-Trichlorophenol							U	U	U
2,4-Dichlorophenol	5						U	U	U
2,4-Dimethylphenol	50(G)						U	U	U
2,4-Dinitrophenol	10(G)						U	U	U
2,4-Dinitrotoluene	5						U	U	U
2,6-Dinitrotoluene	5						U	U	U
2-Chloronaphthalene	10(G)						U	U	U
2-Chlorophenol							U	U	U
2-Methylnaphthalene		52	58	U	U	U	4 J	2.9 J	3.2 J
2-Methylphenol							U	U	U
2-Nitroaniline	5						U	U	U
2-Nitrophenol							U	U	U
3,3-Dichlorobenzidine	5						U	U	U
3-Nitroaniline	5						U	U	U
4,6-Dinitro-2-methylphenol							U	U	U
4-Bromophenyl phenyl ether							U	U	U
4-Chloro-3-methylphenol							U	U	U
4-Chloroaniline	5						U	U	U
4-Chlorophenyl phenyl ether							U	U	U
4-Methylphenol							U	U	U
4-Nitroaniline	5						U	U	U
4-Nitrophenol							U	U	U
Acenaphthene	20(G)						U	U	U
Acenaphthylene							U	U	U
Anthracene	50(G)						U	U	U
Benzo(a)anthracene	0.002(G)						U	U	U
Benzo(a)pyrene	ND						U	U	U
Benzo(b)fluoranthene	0.002(G)						U	U	U
Benzo(k)fluoranthene	0.002(G)						U	U	U
Benzyl alcohol							U	U	U
Bis (2-chloroethyl) ether	1						U	U	U
Bis(2-chloroethoxy)methane	5						U	U	U
Bis(2-ethylhexyl)phthalate	5						U	U	U
Butyl benzyl phthalate	50(G)						U	U	U
Carbazole							U	U	U
Chrysene	0.002(G)						U	U	U
Dibenzo(a,h)anthracene							U	U	U
Dibenzofuran							U	U	U
Diethyl phthalate	50(G)						U	U	U
Dimethyl phthalate	50(G)						U	U	U
Di-n-butyl phthalate	50						U	U	U
Di-n-octyl phthalate	50(G)						U	U	U
Fluoranthene	50(G)						U	U	U
Fluorene	50(G)						U	U	U
Hexachlorobenzene	0.04						U	U	U
Hexachlorobutadiene	0.5						U	U	U
Hexachlorocyclopentadiene	5						U	U	U
Hexachloroethane	5						U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)						U	U	U
Isophorone	50(G)						U	U	U
Naphthalene	10(G)	**150**	**150**	**440**	**39**	**51.7**	**14**	**10**	**10 J**
Nitrobenzene	0.4						U	U	U
n-Nitroso-di-n-propylamine							U	U	U
n-Nitrosodiphenylamine	50(G)						U	U	U
Pentachlorophenol	1						U	U	U
Phenanthrene	50(G)						U	U	U
Phenol	1						U	U	U
Pyrene	50(G)						U	U	U
TOTAL SVOCs		202	208	440	39	51.7	18	12.9	13.2

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Table 3: (Page 10 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	On-Site Monitoring Wells							
		MW-4							
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C									
1,2,4-Trichlorobenzene	5						U	U	U
1,2-Dichlorobenzene	3						U	U	U
1,3 -Dichlorobenzene	3						U	U	U
1,4-Dichlorobenzene	3						U	U	U
2,2-oxybis (1-cholorpropane)							U	U	U
2,4,5-Trichlorophenol							U	U	U
2,4,6-Trichlorophenol							U	U	U
2,4-Dichlorophenol	5						U	U	U
2,4-Dimethylphenol	50(G)						U	U	U
2,4-Dinitrophenol	10(G)						U	U	U
2,4-Dinitrotoluene	5						U	U	U
2,6-Dinitrotoluene	5						U	U	U
2-Chloronaphthalene	10(G)						U	U	U
2-Chlorophenol							U	U	U
2-Methylnaphthalene		85	81	U	U	U	U	4.5 J	12
2-Methylphenol							U	U	U
2-Nitroaniline	5						U	U	U
2-Nitrophenol							U	U	U
3,3-Dichlorobenzidine	5						U	U	U
3-Nitroaniline	5						U	U	U
4,6-Dinitro-2-methylphenol							U	U	U
4-Bromophenyl phenyl ether							U	U	U
4-Chloro-3-methylphenol							U	U	U
4-Chloroaniline	5						U	U	U
4-Chlorophenyl phenyl ether							U	U	U
4-Methylphenol							U	U	0.65 J
4-Nitroaniline	5						U	U	U
4-Nitrophenol							U	U	U
Acenaphthene	20(G)						U	U	U
Acenaphthylene							U	U	U
Anthracene	50(G)						U	U	U
Benzo(a)anthracene	0.002(G)						U	U	U
Benzo(a)pyrene	ND						U	U	U
Benzo(b)fluoranthene	0.002(G)						U	U	U
Benzo(k)fluoranthene	0.002(G)						U	U	U
Benzyl alcohol							U	U	U
Bis (2-chloroethyl) ether	1						U	U	U
Bis(2-chloroethoxy)methane	5						U	U	U
Bis(2-ethylhexyl)phthalate	5						U	U	U
Butyl benzyl phthalate	50(G)						U	U	U
Carbazole							U	U	U
Chrysene	0.002(G)						U	U	U
Dibenzo(a,h)anthracene							U	U	U
Dibenzofuran							U	U	U
Diethyl phthalate	50(G)						U	U	U
Dimethyl phthalate	50(G)						U	U	U
Di-n-butyl phthalate	50						U	U	U
Di-n-octyl phthalate	50(G)						U	U	U
Fluoranthene	50(G)						U	U	U
Fluorene	50(G)						U	U	U
Hexachlorobenzene	0.04						U	U	U
Hexachlorobutadiene	0.5						U	U	U
Hexachlorocyclopentadiene	5						U	U	U
Hexachloroethane	5						U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)						U	U	U
Isophorone	50(G)						U	U	U
Naphthalene	10(G)	**170**	**150**	**360**	**56**	**481**	U	**37**	**48**
Nitrobenzene	0.4						U	U	U
n-Nitroso-di-n-propylamine							U	U	U
n-Nitrosodiphenylamine	50(G)						U	U	U
Pentachlorophenol	1						U	U	U
Phenanthrene	50(G)						U	U	U
Phenol	1						U	U	U
Pyrene	50(G)						U	U	U
TOTAL SVOCs		255	231	360	56	481	ND	41.5	60.65

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Table 3: (Page 11 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	On-Site Monitoring Wells						
		MW-5						
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Sep-07	Nov-07
SVOCs by EPA 8270C								
1,2,4-Trichlorobenzene	5						U	U
1,2-Dichlorobenzene	3						U	U
1,3 -Dichlorobenzene	3						U	U
1,4-Dichlorobenzene	3						U	U
2,2-oxybis (1-cholorpropane)							U	U
2,4,5-Trichlorophenol							U	U
2,4,6-Trichlorophenol							U	U
2,4-Dichlorophenol	5						U	U
2,4-Dimethylphenol	50(G)						U	U
2,4-Dinitrophenol	10(G)						U	U
2,4-Dinitrotoluene	5						U	U
2,6-Dinitrotoluene	5						U	U
2-Chloronaphthalene	10(G)						U	U
2-Chlorophenol							U	U
2-Methylnaphthalene		14	16	U	U	U	U	2.8 J
2-Methylphenol							U	U
2-Nitroaniline	5						U	U
2-Nitrophenol							U	U
3,3-Dichlorobenzidine	5						U	U
3-Nitroaniline	5						U	U
4,6-Dinitro-2-methylphenol							U	U
4-Bromophenyl phenyl ether							U	U
4-Chloro-3-methylphenol							U	U
4-Chloroaniline	5						U	U
4-Chlorophenyl phenyl ether							U	U
4-Methylphenol							U	U
4-Nitroaniline	5						U	U
4-Nitrophenol							U	U
Acenaphthene	20(G)						U	U
Acenaphthylene							U	U
Anthracene	50(G)						U	U
Benzo(a)anthracene	0.002(G)						U	U
Benzo(a)pyrene	ND						U	U
Benzo(b)fluoranthene	0.002(G)						U	U
Benzo(k)fluoranthene	0.002(G)						U	U
Benzyl alcohol							U	U
Bis (2-chloroethyl) ether	1						U	U
Bis(2-chloroethoxy)methane	5						U	U
Bis(2-ethylhexyl)phthalate	5						U	U
Butyl benzyl phthalate	50(G)						U	U
Carbazole							U	U
Chrysene	0.002(G)						U	U
Dibenzo(a,h)anthracene							U	U
Dibenzofuran							U	U
Diethyl phthalate	50(G)						U	U
Dimethyl phthalate	50(G)						U	U
Di-n-butyl phthalate	50						U	U
Di-n-octyl phthalate	50(G)						U	U
Fluoranthene	50(G)						U	U
Fluorene	50(G)						U	U
Hexachlorobenzene	0.04						U	U
Hexachlorobutadiene	0.5						U	U
Hexachlorocyclopentadiene	5						U	U
Hexachloroethane	5						U	U
Indeno(1,2,3-cd)pyrene	0.002(G)						U	U
Isophorone	50(G)						U	U
Naphthalene	10(G)	**17**	**13**	U	2.4	5.31	U	3.5 J
Nitrobenzene	0.4						U	U
n-Nitroso-di-n-propylamine							U	U
n-Nitrosodiphenylamine	50(G)						U	U
Pentachlorophenol	1						U	U
Phenanthrene	50(G)						U	U
Phenol	1						U	U
Pyrene	50(G)						U	U
TOTAL SVOCs		31	29	ND	2	5	ND	6.3

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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Table 3: (Page 12 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS(1) Class GA	On-Site Monitoring Wells							
		MW-6							
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C									
1,2,4-Trichlorobenzene	5						U	U	U
1,2-Dichlorobenzene	3						U	U	U
1,3 -Dichlorobenzene	3						U	U	U
1,4-Dichlorobenzene	3						U	U	U
2,2-oxybis (1-cholorpropane)							U	U	U
2,4,5-Trichlorophenol							U	U	U
2,4,6-Trichlorophenol							U	U	U
2,4-Dichlorophenol	5						U	U	U
2,4-Dimethylphenol	50(G)						U	U	U
2,4-Dinitrophenol	10(G)						U	U	U
2,4-Dinitrotoluene	5						U	U	U
2,6-Dinitrotoluene	5						U	U	U
2-Chloronaphthalene	10(G)						U	U	U
2-Chlorophenol							U	U	U
2-Methylnaphthalene		42	30	U	U	U	U	3.1 J	U
2-Methylphenol							U	U	U
2-Nitroaniline	5						U	U	U
2-Nitrophenol							U	U	U
3,3-Dichlorobenzidine	5						U	U	U
3-Nitroaniline	5						U	U	U
4,6-Dinitro-2-methylphenol							U	U	U
4-Bromophenyl phenyl ether							U	U	U
4-Chloro-3-methylphenol							U	U	U
4-Chloroaniline	5						U	U	U
4-Chlorophenyl phenyl ether							U	U	U
4-Methylphenol							U	U	U
4-Nitroaniline	5						U	U	U
4-Nitrophenol							U	U	U
Acenaphthene	20(G)						U	U	U
Acenaphthylene							U	U	U
Anthracene	50(G)						U	U	U
Benzo(a)anthracene	0.002(G)						U	U	U
Benzo(a)pyrene	ND						U	U	U
Benzo(b)fluoranthene	0.002(G)						U	U	U
Benzo(k)fluoranthene	0.002(G)						U	U	U
Benzyl alcohol							U	U	U
Bis (2-chloroethyl) ether	1						U	U	U
Bis(2-chloroethoxy)methane	5						U	U	U
Bis(2-ethylhexyl)phthalate	5						U	U	U
Butyl benzyl phthalate	50(G)						U	U	U
Carbazole							U	U	U
Chrysene	0.002(G)						U	U	U
Dibenzo(a,h)anthracene							U	U	U
Dibenzofuran							U	U	U
Diethyl phthalate	50(G)						U	U	U
Dimethyl phthalate	50(G)						U	U	U
Di-n-butyl phthalate	50						U	U	U
Di-n-octyl phthalate	50(G)						U	U	U
Fluoranthene	50(G)						U	U	U
Fluorene	50(G)						U	U	U
Hexachlorobenzene	0.04						U	U	U
Hexachlorobutadiene	0.5						U	U	U
Hexachlorocyclopentadiene	5						U	U	U
Hexachloroethane	5						U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)						U	U	U
Isophorone	50(G)						U	U	U
Naphthalene	10(G)	**60**	**38**	**30**	**23**	6.91	U	2.8 J	U
Nitrobenzene	0.4						U	U	U
n-Nitroso-di-n-propylamine							U	U	U
n-Nitrosodiphenylamine	50(G)						U	U	U
Pentachlorophenol	1						U	U	U
Phenanthrene	50(G)						U	U	U
Phenol	1						U	U	U
Pyrene	50(G)						U	U	U
TOTAL SVOCs		102	68	30	23	6.91	ND	5.9	ND

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Table 3: (Page 13 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS(1) Class GA	On-Site Monitoring Wells			
		MW-16		TW-1	TW-2
		Sep-07	Nov-07	Sep-14	Sep-14
SVOCs by EPA 8270C					
1,2,4-Trichlorobenzene	5	U	U	U	U
1,2-Dichlorobenzene	3	U	U	U	U
1,3 -Dichlorobenzene	3	U	U	U	U
1,4-Dichlorobenzene	3	U	U	U	U
2,2-oxybis (1-cholorpropane)		U	U	U	U
2,4,5-Trichlorophenol		U	U	U	U
2,4,6-Trichlorophenol		U	U	U	U
2,4-Dichlorophenol	5	U	U	U	U
2,4-Dimethylphenol	50(G)	U	U	U	U
2,4-Dinitrophenol	10(G)	U	U	U	U
2,4-Dinitrotoluene	5	U	U	U	U
2,6-Dinitrotoluene	5	U	U	U	U
2-Chloronaphthalene	10(G)	U	U	U	U
2-Chlorophenol		U	U	U	U
2-Methylnaphthalene		U	U	52	20
2-Methylphenol		U	U	U	U
2-Nitroaniline	5	U	U	U	U
2-Nitrophenol		U	U	U	U
3,3-Dichlorobenzidine	5	U	U	U	U
3-Nitroaniline	5	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U
4-Bromophenyl phenyl ether		U	U	U	U
4-Chloro-3-methylphenol		U	U	U	U
4-Chloroaniline	5	U	U	U	U
4-Chlorophenyl phenyl ether		U	U	U	U
4-Methylphenol		U	U	U	U
4-Nitroaniline	5	U	U	U	U
4-Nitrophenol		U	U	U	U
Acenaphthene	20(G)	U	U	U	U
Acenaphthylene		U	U	U	U
Anthracene	50(G)	U	U	U	U
Benzo(a)anthracene	0.002(G)	U	U	U	U
Benzo(a)pyrene	ND	U	U	U	U
Benzo(b)fluoranthene	0.002(G)	U	U	U	U
Benzo(k)fluoranthene	0.002(G)	U	U	U	U
Benzyl alcohol		U	U	U	U
Bis (2-chloroethyl) ether	1	U	U	U	U
Bis(2-chloroethoxy)methane	5	U	U	U	U
Bis(2-ethylhexyl)phthalate	5	U	U	U	U
Butyl benzyl phthalate	50(G)	U	U	U	U
Carbazole		U	U	U	U
Chrysene	0.002(G)	U	U	U	U
Dibenzo(a,h)anthracene		U	U	U	U
Dibenzofuran		U	U	U	U
Diethyl phthalate	50(G)	U	U	U	U
Dimethyl phthalate	50(G)	U	U	U	U
Di-n-butyl phthalate	50	U	U	U	U
Di-n-octyl phthalate	50(G)	U	U	U	U
Fluoranthene	50(G)	U	U	U	U
Fluorene	50(G)	U	U	U	U
Hexachlorobenzene	0.04	U	U	U	U
Hexachlorobutadiene	0.5	U	U	U	U
Hexachlorocyclopentadiene	5	U	U	U	U
Hexachloroethane	5	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)	U	U	U	U
Isophorone	50(G)	U	U	U	U
Naphthalene	10(G)	U	U	**84**	**13**
Nitrobenzene	0.4	U	U	U	U
n-Nitroso-di-n-propylamine		U	U	U	U
n-Nitrosodiphenylamine	50(G)	U	U	U	U
Pentachlorophenol	1	U	U	U	U
Phenanthrene	50(G)	U	U	U	U
Phenol	1	U	U	U	U
Pyrene	50(G)	U	U	U	U
TOTAL SVOCs		ND	ND	136	33

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Table 3: (Page 14 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	Off-Site Monitoring Wells MW-8							
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C									
1,2,4-Trichlorobenzene	5						NS	U	U
1,2-Dichlorobenzene	3						NS	U	U
1,3 -Dichlorobenzene	3						NS	U	U
1,4-Dichlorobenzene	3						NS	U	U
2,2-oxybis (1-cholorpropane)							NS	U	U
2,4,5-Trichlorophenol							NS	U	U
2,4,6-Trichlorophenol							NS	U	U
2,4-Dichlorophenol	5						NS	U	U
2,4-Dimethylphenol	50(G)						NS	U	U
2,4-Dinitrophenol	10(G)						NS	U	U
2,4-Dinitrotoluene	5						NS	U	U
2,6-Dinitrotoluene	5						NS	U	U
2-Chloronaphthalene	10(G)						NS	U	U
2-Chlorophenol							NS	U	U
2-Methylnaphthalene		U	U	U	U	U	NS	U	U
2-Methylphenol							NS	U	U
2-Nitroaniline	5						NS	U	U
2-Nitrophenol							NS	U	U
3,3-Dichlorobenzidine	5						NS	U	U
3-Nitroaniline	5						NS	U	U
4,6-Dinitro-2-methylphenol							NS	U	U
4-Bromophenyl phenyl ether							NS	U	U
4-Chloro-3-methylphenol							NS	U	U
4-Chloroaniline	5						NS	U	U
4-Chlorophenyl phenyl ether							NS	U	U
4-Methylphenol							NS	U	U
4-Nitroaniline	5						NS	U	U
4-Nitrophenol							NS	U	U
Acenaphthene	20(G)						NS	U	U
Acenaphthylene							NS	U	U
Anthracene	50(G)						NS	U	U
Benzo(a)anthracene	0.002(G)						NS	U	U
Benzo(a)pyrene	ND						NS	U	U
Benzo(b)fluoranthene	0.002(G)						NS	U	U
Benzo(k)fluoranthene	0.002(G)						NS	U	U
Benzyl alcohol							NS	U	U
Bis (2-chloroethyl) ether	1						NS	U	U
Bis(2-chloroethoxy)methane	5						NS	U	U
Bis(2-ethylhexyl)phthalate	5						NS	U	U
Butyl benzyl phthalate	50(G)						NS	U	U
Carbazole							NS	U	U
Chrysene	0.002(G)						NS	U	U
Dibenzo(a,h)anthracene							NS	U	U
Dibenzofuran							NS	U	U
Diethyl phthalate	50(G)						NS	U	U
Dimethyl phthalate	50(G)						NS	U	U
Di-n-butyl phthalate	50						NS	U	U
Di-n-octyl phthalate	50(G)						NS	U	U
Fluoranthene	50(G)						NS	U	U
Fluorene	50(G)						NS	U	U
Hexachlorobenzene	0.04						NS	U	U
Hexachlorobutadiene	0.5						NS	U	U
Hexachlorocyclopentadiene	5						NS	U	U
Hexachloroethane	5						NS	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)						NS	U	U
Isophorone	50(G)						NS	U	U
Naphthalene	10(G)	U	U	U	U	U	NS	U	U
Nitrobenzene	0.4						NS	U	U
n-Nitroso-di-n-propylamine							NS	U	U
n-Nitrosodiphenylamine	50(G)						NS	U	U
Pentachlorophenol	1						NS	U	U
Phenanthrene	50(G)						NS	U	U
Phenol	1						NS	U	U
Pyrene	50(G)						NS	U	U
TOTAL SVOCs		ND	ND	ND	ND	ND	NS	ND	ND

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Table 3: (Page 15 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[1] Class GA	Off-Site Monitoring Wells							
		MW-9							
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C									
1,2,4-Trichlorobenzene	5						U	NS	NS
1,2-Dichlorobenzene	3						U	NS	NS
1,3 -Dichlorobenzene	3						U	NS	NS
1,4-Dichlorobenzene	3						U	NS	NS
2,2-oxybis (1-cholorpropane)							U	NS	NS
2,4,5-Trichlorophenol							U	NS	NS
2,4,6-Trichlorophenol							U	NS	NS
2,4-Dichlorophenol	5						U	NS	NS
2,4-Dimethylphenol	50(G)						U	NS	NS
2,4-Dinitrophenol	10(G)						U	NS	NS
2,4-Dinitrotoluene	5						U	NS	NS
2,6-Dinitrotoluene	5						U	NS	NS
2-Chloronaphthalene	10(G)						U	NS	NS
2-Chlorophenol							U	NS	NS
2-Methylnaphthalene		U	U	U	U	U	U	NS	NS
2-Methylphenol							U	NS	NS
2-Nitroaniline	5						U	NS	NS
2-Nitrophenol							U	NS	NS
3,3-Dichlorobenzidine	5						U	NS	NS
3-Nitroaniline	5						U	NS	NS
4,6-Dinitro-2-methylphenol							U	NS	NS
4-Bromophenyl phenyl ether							U	NS	NS
4-Chloro-3-methylphenol							U	NS	NS
4-Chloroaniline	5						U	NS	NS
4-Chlorophenyl phenyl ether							U	NS	NS
4-Methylphenol							U	NS	NS
4-Nitroaniline	5						U	NS	NS
4-Nitrophenol							U	NS	NS
Acenaphthene	20(G)						U	NS	NS
Acenaphthylene							U	NS	NS
Anthracene	50(G)						U	NS	NS
Benzo(a)anthracene	0.002(G)						U	NS	NS
Benzo(a)pyrene	ND						U	NS	NS
Benzo(b)fluoranthene	0.002(G)						U	NS	NS
Benzo(k)fluoranthene	0.002(G)						U	NS	NS
Benzyl alcohol							U	NS	NS
Bis (2-chloroethyl) ether	1						U	NS	NS
Bis(2-chloroethoxy)methane	5						U	NS	NS
Bis(2-ethylhexyl)phthalate	5						U	NS	NS
Butyl benzyl phthalate	50(G)						U	NS	NS
Carbazole							U	NS	NS
Chrysene	0.002(G)						U	NS	NS
Dibenzo(a,h)anthracene							U	NS	NS
Dibenzofuran							U	NS	NS
Diethyl phthalate	50(G)						U	NS	NS
Dimethyl phthalate	50(G)						U	NS	NS
Di-n-butyl phthalate	50						U	NS	NS
Di-n-octyl phthalate	50(G)						U	NS	NS
Fluoranthene	50(G)						U	NS	NS
Fluorene	50(G)						U	NS	NS
Hexachlorobenzene	0.04						U	NS	NS
Hexachlorobutadiene	0.5						U	NS	NS
Hexachlorocyclopentadiene	5						U	NS	NS
Hexachloroethane	5						U	NS	NS
Indeno(1,2,3-cd)pyrene	0.002(G)						U	NS	NS
Isophorone	50(G)						U	NS	NS
Naphthalene	10(G)	U	U	U	U	U	U	NS	NS
Nitrobenzene	0.4						U	NS	NS
n-Nitroso-di-n-propylamine							U	NS	NS
n-Nitrosodiphenylamine	50(G)						U	NS	NS
Pentachlorophenol	1						U	NS	NS
Phenanthrene	50(G)						U	NS	NS
Phenol	1						U	NS	NS
Pyrene	50(G)						U	NS	NS
TOTAL SVOCs		ND	ND	ND	ND	ND	ND	NS	NS

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Analyte (µg/L)	TOGS[(1)] Class GA	Off-Site Monitoring Wells							
		MW-10							
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C									
1,2,4-Trichlorobenzene	5						U	U	U
1,2-Dichlorobenzene	3						U	U	U
1,3 -Dichlorobenzene	3						U	U	U
1,4-Dichlorobenzene	3						U	U	U
2,2-oxybis (1-cholorpropane)							U	U	U
2,4,5-Trichlorophenol							U	U	U
2,4,6-Trichlorophenol							U	U	U
2,4-Dichlorophenol	5						U	U	U
2,4-Dimethylphenol	50(G)						U	U	U
2,4-Dinitrophenol	10(G)						U	U	U
2,4-Dinitrotoluene	5						U	U	U
2,6-Dinitrotoluene	5						U	U	U
2-Chloronaphthalene	10(G)						U	U	U
2-Chlorophenol							U	U	U
2-Methylnaphthalene		U	6.8	U	U	U	U	U	U
2-Methylphenol							U	U	U
2-Nitroaniline	5						U	U	U
2-Nitrophenol							U	U	U
3,3-Dichlorobenzidine	5						U	U	U
3-Nitroaniline	5						U	U	U
4,6-Dinitro-2-methylphenol							U	U	U
4-Bromophenyl phenyl ether							U	U	U
4-Chloro-3-methylphenol							U	U	U
4-Chloroaniline	5						U	U	U
4-Chlorophenyl phenyl ether							U	U	U
4-Methylphenol							U	U	U
4-Nitroaniline	5						U	U	U
4-Nitrophenol							U	U	U
Acenaphthene	20(G)						U	0.5 J	0.42 J
Acenaphthylene							U	U	U
Anthracene	50(G)						U	U	U
Benzo(a)anthracene	0.002(G)						U	U	U
Benzo(a)pyrene	ND						U	U	U
Benzo(b)fluoranthene	0.002(G)						U	U	U
Benzo(k)fluoranthene	0.002(G)						U	U	U
Benzyl alcohol							U	U	U
Bis (2-chloroethyl) ether	1						U	U	U
Bis(2-chloroethoxy)methane	5						U	U	U
Bis(2-ethylhexyl)phthalate	5						U	U	U
Butyl benzyl phthalate	50(G)						U	U	U
Carbazole							U	U	U
Chrysene	0.002(G)						U	U	U
Dibenzo(a,h)anthracene							U	U	U
Dibenzofuran							U	U	U
Diethyl phthalate	50(G)						U	U	U
Dimethyl phthalate	50(G)						U	U	U
Di-n-butyl phthalate	50						U	U	U
Di-n-octyl phthalate	50(G)						U	U	U
Fluoranthene	50(G)						U	U	U
Fluorene	50(G)						U	0.74 J	U
Hexachlorobenzene	0.04						U	U	U
Hexachlorobutadiene	0.5						U	U	U
Hexachlorocyclopentadiene	5						U	U	U
Hexachloroethane	5						U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)						U	U	U
Isophorone	50(G)						U	U	U
Naphthalene	10(G)	**10**	8.1	**23**	**46**	**35.5**	9 J	**11**	**14**
Nitrobenzene	0.4						U	U	U
n-Nitroso-di-n-propylamine							U	U	U
n-Nitrosodiphenylamine	50(G)						U	U	U
Pentachlorophenol	1						U	U	U
Phenanthrene	50(G)						U	U	U
Phenol	1						U	U	U
Pyrene	50(G)						U	U	U
TOTAL SVOCs		10	14.9	23	46	35.5	9	12.24	14.42

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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Table 3: (Page 17 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[1] Class GA	Off-Site Monitoring Wells							
		MW-11							
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C									
1,2,4-Trichlorobenzene	5						U	U	U
1,2-Dichlorobenzene	3						U	U	U
1,3 -Dichlorobenzene	3						U	U	U
1,4-Dichlorobenzene	3						U	U	U
2,2-oxybis (1-cholorpropane)							U	U	U
2,4,5-Trichlorophenol							U	U	U
2,4,6-Trichlorophenol							U	U	U
2,4-Dichlorophenol	5						U	U	U
2,4-Dimethylphenol	50(G)						U	U	U
2,4-Dinitrophenol	10(G)						U	U	U
2,4-Dinitrotoluene	5						U	U	U
2,6-Dinitrotoluene	5						U	U	U
2-Chloronaphthalene	10(G)						U	U	U
2-Chlorophenol							U	U	U
2-Methylnaphthalene		U	U	U	U	U	U	U	U
2-Methylphenol							U	U	U
2-Nitroaniline	5						U	U	U
2-Nitrophenol							U	U	U
3,3-Dichlorobenzidine	5						U	U	U
3-Nitroaniline	5						U	U	U
4,6-Dinitro-2-methylphenol							U	U	U
4-Bromophenyl phenyl ether							U	U	U
4-Chloro-3-methylphenol							U	U	U
4-Chloroaniline	5						U	U	U
4-Chlorophenyl phenyl ether							U	U	U
4-Methylphenol							U	U	U
4-Nitroaniline	5						U	U	U
4-Nitrophenol							U	U	U
Acenaphthene	20(G)						U	U	U
Acenaphthylene							U	U	U
Anthracene	50(G)						U	U	U
Benzo(a)anthracene	0.002(G)						U	U	U
Benzo(a)pyrene	ND						U	U	U
Benzo(b)fluoranthene	0.002(G)						U	U	U
Benzo(k)fluoranthene	0.002(G)						U	U	U
Benzyl alcohol							U	U	U
Bis (2-chloroethyl) ether	1						U	U	U
Bis(2-chloroethoxy)methane	5						U	U	U
Bis(2-ethylhexyl)phthalate	5						U	U	U
Butyl benzyl phthalate	50(G)						U	U	U
Carbazole							U	U	U
Chrysene	0.002(G)						U	U	U
Dibenzo(a,h)anthracene							U	U	U
Dibenzofuran							U	U	U
Diethyl phthalate	50(G)						U	U	U
Dimethyl phthalate	50(G)						U	U	U
Di-n-butyl phthalate	50						U	U	U
Di-n-octyl phthalate	50(G)						U	U	U
Fluoranthene	50(G)						U	U	U
Fluorene	50(G)						U	U	U
Hexachlorobenzene	0.04						U	U	U
Hexachlorobutadiene	0.5						U	U	U
Hexachlorocyclopentadiene	5						U	U	U
Hexachloroethane	5						U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)						U	U	U
Isophorone	50(G)						U	U	U
Naphthalene	10(G)	U	U	U	U	U	U	U	U
Nitrobenzene	0.4						U	U	U
n-Nitroso-di-n-propylamine							U	U	U
n-Nitrosodiphenylamine	50(G)						U	U	U
Pentachlorophenol	1						U	U	U
Phenanthrene	50(G)						U	U	U
Phenol	1						U	U	U
Pyrene	50(G)						U	U	U
TOTAL SVOCs		ND	ND	ND	ND	ND	ND	ND	ND

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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Table 3: (Page 18 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	Off-Site Monitoring Wells							
		MW-12							
		Mar-02	Mar-02	Jun-02	Sep-02	Mar-05	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C									
1,2,4-Trichlorobenzene	5						U	NS	NS
1,2-Dichlorobenzene	3						U	NS	NS
1,3 -Dichlorobenzene	3						U	NS	NS
1,4-Dichlorobenzene	3						U	NS	NS
2,2-oxybis (1-cholorpropane)							U	NS	NS
2,4,5-Trichlorophenol							U	NS	NS
2,4,6-Trichlorophenol							U	NS	NS
2,4-Dichlorophenol	5						U	NS	NS
2,4-Dimethylphenol	50(G)						U	NS	NS
2,4-Dinitrophenol	10(G)						U	NS	NS
2,4-Dinitrotoluene	5						U	NS	NS
2,6-Dinitrotoluene	5						U	NS	NS
2-Chloronaphthalene	10(G)						U	NS	NS
2-Chlorophenol							U	NS	NS
2-Methylnaphthalene		NA	U	U	U	U	U	NS	NS
2-Methylphenol							U	NS	NS
2-Nitroaniline	5						U	NS	NS
2-Nitrophenol							U	NS	NS
3,3-Dichlorobenzidine	5						U	NS	NS
3-Nitroaniline	5						U	NS	NS
4,6-Dinitro-2-methylphenol							U	NS	NS
4-Bromophenyl phenyl ether							U	NS	NS
4-Chloro-3-methylphenol							U	NS	NS
4-Chloroaniline	5						U	NS	NS
4-Chlorophenyl phenyl ether							U	NS	NS
4-Methylphenol							U	NS	NS
4-Nitroaniline	5						U	NS	NS
4-Nitrophenol							U	NS	NS
Acenaphthene	20(G)						U	NS	NS
Acenaphthylene							U	NS	NS
Anthracene	50(G)						U	NS	NS
Benzo(a)anthracene	0.002(G)						U	NS	NS
Benzo(a)pyrene	ND						U	NS	NS
Benzo(b)fluoranthene	0.002(G)						U	NS	NS
Benzo(k)fluoranthene	0.002(G)						U	NS	NS
Benzyl alcohol							U	NS	NS
Bis (2-chloroethyl) ether	1						U	NS	NS
Bis(2-chloroethoxy)methane	5						U	NS	NS
Bis(2-ethylhexyl)phthalate	5						U	NS	NS
Butyl benzyl phthalate	50(G)						U	NS	NS
Carbazole							U	NS	NS
Chrysene	0.002(G)						U	NS	NS
Dibenzo(a,h)anthracene							U	NS	NS
Dibenzofuran							U	NS	NS
Diethyl phthalate	50(G)						U	NS	NS
Dimethyl phthalate	50(G)						U	NS	NS
Di-n-butyl phthalate	50						U	NS	NS
Di-n-octyl phthalate	50(G)						U	NS	NS
Fluoranthene	50(G)						U	NS	NS
Fluorene	50(G)						U	NS	NS
Hexachlorobenzene	0.04						U	NS	NS
Hexachlorobutadiene	0.5						U	NS	NS
Hexachlorocyclopentadiene	5						U	NS	NS
Hexachloroethane	5						U	NS	NS
Indeno(1,2,3-cd)pyrene	0.002(G)						U	NS	NS
Isophorone	50(G)						U	NS	NS
Naphthalene	10(G)	NA	U	**47**	U	U	U	NS	NS
Nitrobenzene	0.4						U	NS	NS
n-Nitroso-di-n-propylamine							U	NS	NS
n-Nitrosodiphenylamine	50(G)						U	NS	NS
Pentachlorophenol	1						U	NS	NS
Phenanthrene	50(G)						U	NS	NS
Phenol	1						U	NS	NS
Pyrene	50(G)						U	NS	NS
TOTAL SVOCs		NA	ND	47	ND	ND	ND	NS	NS

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Table 3: (Page 19 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[1] Class GA	Off-Site Monitoring Wells								
		MW-13			MW-14			MW-15		
		Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C										
1,2,4-Trichlorobenzene	5	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	3	U	U	U	U	U	U	U	U	U
1,3 -Dichlorobenzene	3	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	3	U	U	U	U	U	U	U	U	U
2,2-oxybis (1-cholorpropane)		U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol		U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	50(G)	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	10(G)	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	10(G)	U	U	U	U	U	U	U	U	U
2-Chlorophenol		U	U	U	U	U	U	U	U	U
2-Methylnaphthalene		U	U	U	U	U	U	U	U	U
2-Methylphenol		U	U	U	U	U	U	U	U	U
2-Nitroaniline	5	U	U	U	U	U	U	U	U	U
2-Nitrophenol		U	U	U	U	U	U	U	U	U
3,3-Dichlorobenzidine	5	U	U	U	U	U	U	U	U	U
3-Nitroaniline	5	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U	U	U	U	U	U
4-Bromophenyl phenyl ether		U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol		U	U	U	U	U	U	U	U	U
4-Chloroaniline	5	U	U	U	U	U	U	U	U	U
4-Chlorophenyl phenyl ether		U	U	U	U	U	U	U	U	U
4-Methylphenol		U	U	U	U	U	1.5 J	U	U	U
4-Nitroaniline	5	U	U	U	U	U	U	U	U	U
4-Nitrophenol		U	U	U	U	U	U	U	U	U
Acenaphthene	20(G)	U	U	U	U	U	U	U	U	U
Acenaphthylene		U	U	U	U	U	U	U	U	U
Anthracene	50(G)	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	0.002(G)	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	ND	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	0.002(G)	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	0.002(G)	U	U	U	U	U	U	U	U	U
Benzyl alcohol		U	U	U	U	U	U	U	U	U
Bis (2-chloroethyl) ether	1	U	U	U	U	U	U	U	U	U
Bis(2-chloroethoxy)methane	5	U	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate	5	U	U	U	U	U	U	U	U	U
Butyl benzyl phthalate	50(G)	U	U	U	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U	U	U	U
Chrysene	0.002(G)	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene		U	U	U	U	U	U	U	U	U
Dibenzofuran		U	U	U	U	U	U	U	U	U
Diethyl phthalate	50(G)	U	U	U	U	U	U	U	U	U
Dimethyl phthalate	50(G)	U	U	U	U	U	U	U	U	U
Di-n-butyl phthalate	50	U	U	U	U	U	U	U	U	U
Di-n-octyl phthalate	50(G)	U	U	U	U	U	U	U	U	U
Fluoranthene	50(G)	U	U	U	U	U	U	U	U	U
Fluorene	50(G)	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	0.04	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5	U	U	U	U	U	U	U	U	U
Hexachloroethane	5	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)	U	U	U	U	U	U	U	U	U
Isophorone	50(G)	U	U	U	U	U	U	U	U	U
Naphthalene	10(G)	U	U	U	U	0.72 J	1.3 J	1 JH	U	U
Nitrobenzene	0.4	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine		U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	50(G)	U	U	U	U	U	U	U	U	U
Pentachlorophenol	1	U	U	U	U	U	U	U	U	U
Phenanthrene	50(G)	U	U	U	U	U	U	U	U	U
Phenol	1	U	U	U	U	U	U	U	U	U
Pyrene	50(G)	U	U	U	U	U	U	U	U	U
TOTAL SVOCs		ND	ND	ND	ND	0.72	2.8	1	ND	ND

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Table 3: (Page 20 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS(1) Class GA	On-Site Monitoring Wells								
		MW-2			MW-3			MW-4		
		Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07
Metals by EPA 6010B/7471A										
Aluminum		30,100	NS	NS	16,500	160 J	130 J	7,810	750	640
Antimony	3	U	NS	NS	U	U	U	U	U	U
Arsenic	25	**57.1**	NS	NS	22.6	U	U	14.3	7.8 J	9.1 J
Barium	1,000	318	NS	NS	266	120	130	173	200	210
Beryllium	3(G)	1.8	NS	NS	0.81	U	U	0.57 B	U	U
Cadmium	5	3.1	NS	NS	1	U	U	**51.2**	U	U
Calcium		245,000	NS	NS	252,000	136,000	126,000	183,000	115,000	122,000
Chromium	50	46.2	NS	NS	25.4	U	U	10.2	U	U
Cobalt		54.2	NS	NS	18.9	U	U	13.6	U	U
Copper	200	**270**	NS	NS	127	U	U	61.2	7.1 J	7.2 J
Iron	300	**90,800**	NS	NS	**40,700**	**2,000**	**2,800**	**25,100**	**8,300**	**9,700**
Lead	25	**70.7**	NS	NS	**39.2**	U	U	21.7	6.1 J	7.6 J
Magnesium	35,000 (G)	**104,000**	NS	NS	**79,800**	22,300	24,900	**50,500**	18,100	17,100
Manganese	300	**5,200**	NS	NS	**1,590**	220	270	**1,080**	**560**	**740**
Mercury	0.7	0.091	NS	NS	0.075 B	U		ND U	U	
Nickel	100	94.6	NS	NS	42.7	U	U	24.6	7.4 J	U
Potassium		7,260	NS	NS	9,150	3,100	2,800	3,700 N	4,300	5,400
Selenium	10	U	NS	NS	U	U	U	U	U	U
Silver	50	U	NS	NS	U	U	U	U	U	U
Sodium	20,000	**27,300**	NS	NS	**167,000**	**44,700**	**60,000**	**30,100**	**80,700**	**57,300**
Thallium	0.5(G)	**10.7**	NS	NS	U	**9 J**	U	U	**10 J**	U
Vanadium		62.2	NS	NS	32.9	U	U	15.7	1.6 J	U
Zinc	2,000(G)	463	NS	NS	212	U	U	117	16 J	U

Analyte (µg/L)	TOGS(1) Class GA	On-Site Monitoring Wells						
		MW-5		MW-6			MW-16	
		Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Sep-07	Nov-07
Metals by EPA 6010B/7471A								
Aluminum		91 J	U	21,700	750	610	280 J	210 J
Antimony	3	U	U	U	U	U	U	U
Arsenic	25	U	U	**38.4 B**	U	U	U	U
Barium	1,000	89	75	298	94	90	84	84
Beryllium	3(G)	U	U	1.4 B	U	U	U	U
Cadmium	5	U	U	**18.9**	U	U	U	U
Calcium		102,000	92,600	209,000	103,000	94,700	92,400	98,500
Chromium	50	U	U	35.1	U	U	U	U
Cobalt		U	U	33.1	U	U	U	U
Copper	200	U	U	167	5.1 J	5.4 J	8 J	U
Iron	300	**480**	**490**	**62,100**	**2,500**	**2,400**	**770**	**490**
Lead	25	U	U	**58.4**	U	U	U	U
Magnesium	35,000 (G)	19,300	17,500	**73,400**	19,400	17,500	18,200	19,500
Manganese	300	250	**360**	**2,560**	290	270	85	60
Mercury	0.7	U	U	0.089	U	U	U	U
Nickel	100	U	U	61.1	2 J	2.1 J	U	U
Potassium		2,100	1,700	6,620 N	2,200	2,100	2,100	1,900
Selenium	10	U	U	U	U	U	U	U
Silver	50	U	U	U	U	U	U	U
Sodium	20,000	**41,000**	**43,900**	**50,500**	**46,500**	**61,700**	**50,500**	**44,400**
Thallium	0.5(G)	**9.6 J**	U	U	U	U	**12 J**	U
Vanadium		U	U	44.4	2.2 J	1.1 J	U	U
Zinc	2,000(G)	U	U	340	13 J	13 J	U	U

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U The compound was not detected at the method detection level.

J Estimated value

NS Not sampled

Table 3: (Page 21 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS(1) Class GA	Off-Site Monitoring Wells											
		MW-8			MW-9			MW-10			MW-11		
		Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07
Metals by EPA 6010B/7471A													
Aluminum		NS	1,900	340 J	8,550	NS	NS	19,000	U	190 J	7,510	U	U
Antimony	3	NS	U	U	U	NS	NS	U	U	U	U	U	U
Arsenic	25	NS	U	U	19.6	NS	NS	**46.2**	U	U	17.6	U	U
Barium	1,000	NS	120	94	287	NS	NS	433	200	200	180	110	100
Beryllium	3(G)	NS	U	U	0.45	NS	NS	1.2	U	U	0.35	U	U
Cadmium	5	NS	U	U	U	NS	NS	0.8	U	U	U	U	U
Calcium		NS	103,000	85,800	202,000	NS	NS	250,000	93,700	89,800	151,000	101,000	87,700
Chromium	50	NS	2.2 J	U	11.2	NS	NS	28.0	U	U	10.5	U	U
Cobalt		NS	3.6 J	U	16.4	NS	NS	26.2	U	U	13.2	U	U
Copper	200	NS	14	U	82.5	NS	NS	**263**	U	U	72.8	U	U
Iron	300	NS	**5,300**	**900**	**26,700**	NS	NS	**66,900**	**8,500**	**9,100**	**23,300**	100 J	130 J
Lead	25	NS	U	U	19.8	NS	NS	**75.6**	U	U	**25.1**	U	U
Magnesium	35,000 (G)	NS	23,100	19,800	34,400	NS	NS	**56,000**	13,900	14,300	31,500	17,000	15,200
Manganese	300	NS	**410**	79	**3,220**	NS	NS	**1,920**	**460**	**460**	**1,820**	54	33
Mercury	0.7	NS	U		U	NS	NS	0.14	U		U	U	
Nickel	100	NS	5.6 J	U	24.8	NS	NS	57.5	U	U	24.6	U	U
Potassium		NS	2,000	1,400	4,800	NS	NS	7,370	2,900	2,600	4,010	2,100	1,600
Selenium	10	NS	U	U	U	NS	NS	U	U	U	U	U	U
Silver	50	NS	U	U	U	NS	NS	U	U	U	U	U	U
Sodium	20,000	NS	**40,400**	**36,700**	**64,400**	NS	NS	**91,700**	**78,600**	**55,200**	**48,200**	**74,500**	**57,400**
Thallium	0.5(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Vanadium		NS	4 J	U	21	NS	NS	47.8	U	U	19.8	U	U
Zinc	2,000(G)	NS	31 J	U	145	NS	NS	444	U	U	153	U	U

Analyte (µg/L)	TOGS(1) Class GA	Off-Site Monitoring Wells											
		MW-12			MW-13			MW-14			MW-15		
		Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07
Metals by EPA 6010B/7471A													
Aluminum		69,400	NS	NS	82,900	170 J	320 J	40,400	250 J	190 J	71,100	1,500	360 J
Antimony	3	U	NS	NS	U	U	U	U	U		U	U	U
Arsenic	25	**159**	NS	NS	**172**	U	U	**89.7**	U		**197**	U	U
Barium	1,000	**1,090**	NS	NS	**1,550**	170	180	859	100	91	884	160	140
Beryllium	3(G)	**3.9**	NS	NS	**4.5**	U	U	2.6	U		**4.6**	U	U
Cadmium	5	U	NS	NS	U	U	U	2.1	U		U	U	U
Calcium		615,000	NS	NS	892,000	90,800	82,000	604,000	108,000	89,700	762,000	97,600	85,300
Chromium	50	**134**	NS	NS	**184**	U	U	**67.5**	U		**116**	2.2 J	U
Cobalt		108	NS	NS	116	U	U	77.5	U		112	2.2 J	U
Copper	200	**778**	NS	NS	**903**	U	U	**407**	U		**929**	12	U
Iron	300	**276,000**	NS	NS	**301,000**	**610**	**980**	**133,000**	**1,600**	**1,200**	**285,000**	**4,200**	**970**
Lead	25	**205**	NS	NS	**203**	U	U	**99.5**	U		**260**	U	U
Magnesium	35,000 (G)	**153,000**	NS	NS	**236,000**	18,800	17,300	**127,000**	20,100	18,400	**161,000**	18,900	18,500
Manganese	300	**9,960**	NS	NS	**7,520**	**400**	**430**	**8,040**	**450**	280	**13,000**	**580**	280
Mercury	0.7	0.47	NS	NS	0.49	U		0.18	U		0.21	U	
Nickel	100	**238**	NS	NS	**252**	U	U	**127**	U		**220**	2 J	U
Potassium		10,200	NS	NS	13,700	1,700	1,800	11,000 N	2,500	2,400	14,200	2,600	2,000
Selenium	10	U	NS	NS	U	U	U	U	U		U	U	U
Silver	50	U	NS	NS	U	U	U	U	U		U	U	U
Sodium	20,000	**80,900**	NS	NS	**62,800**	**30,900**	**46,200**	**67,200**	**45,100**	**46,600**	**80,900**	**36,700**	**36,300**
Thallium	0.5(G)	U	NS	NS	U	**11 J**	U	**14.9**	**10 J**		U	**13 J**	U
Vanadium		180	NS	NS	205	1.5 J	U	96.2	U		177	3.7 J	U
Zinc	2,000(G)	1,550	NS	NS	1,670	U	U	841	U		1,660	24 J	U

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U The compound was not detected at the method detection level.

J Estimated value

NS Not sampled

Table 3: (Page 22 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	Onsite Monitoring Wells				Offsite Monitoring Wells						
		MW-2	MW-3	MW-4	MW-6	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15
PCBs by EPA 8082												
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1260		U	U	U	U	U	U	U	U	U	U	U
TOTAL PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

All compounds and standards are reported in µg/L. Samples collected in October 2006

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - New York State Department of Environmental Conservation

(2) Refers to the sum of all PCBs

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration reported is an approximate value.

Table 3: (Page 23 of 23). Groundwater Sample Laboratory Analytical Results. On-Site and Off-Site Groundwater Samples. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[1] Class GA	Bay 2 Sump Water*	
VOCs by Method 8260			
acetone	50 (G)	16	
benzene	1	0.68	J
methylene chloride	5	1.4	JB
tetrachlorethene	5	**24**	**JB**
toluene	5	4.3	J
trichloroethene	5	1.7	J
cis- 1,2-dichloroethene	5	**6.5**	
trans-1,2-dichloroethene	5	0.54	J
vinyl chloride	2	**2**	**J**
xylenes	5	**6.1**	
MTBE	10 (G)	2.9	J
SVOCs by EPA 8270			
anthracene	50 (G)	37	
bis(2-ethylhexyl)phthalate	5	2.9	J
butyl benzyl phthalate	50 (G)	0.92	J
diethyl phthalate	50 (G)	0.51	J
phenanthrene	50 (G)	0.45	J
pyrene	50 (G)	0.66	J
PCBs by EPA 8082			
1016			U
1221			U
1232			U
1242			U
1248			U
1252			U
1260			U
Total PCBs	0.09		

U - Not Detected

J- Estimated value, below detection limits

B - Compound detected in method blank

No other 8260 VOCs or 8270 SVOCs were detected in this water sample

* - Sample is of water that collected in the sump, not groundwater, water was containerized and transported off-site for proper disposal

Table 3A: (Page 1 of 2) Previous Investigation Groundwater Contamination Summary. On-Site and Off-Site Groundwater Samples. Nature's Way 2002 - 2005. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (ug/L)	GW Standards[1]	Sample Identification									
		MW-1					MW-2				
Sample Date		March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005
VOCs by EPA Method 8260											
Benzene	1			U	U	U			U	U	U
n-Butylbenzene	5			U	U	U			U	U	U
sec-Butylbenzene	5			U	2.8	**9.76**			U	U	U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	**350**	**240**	**250**	**36**	**126**	U	U	U	U	U
Isopropylbenzene	5			**64**	**5.3**	**40.9**			U	U	U
4-Isopropyltoluene	5				1.1	**16**				U	U
Methyl-tert-butyl ether	10 (G)					U				U	U
n-Propylbenzene	5			**170**	**16**	**98.6**			U	U	U
tert-Butylbenzene	5					U					U
Toluene	5	U	U	U	U	U	**18**	**50**	U	U	U
1,2,4-Trimethylbenzene	5			**1,100**	**86**	**916**			U	U	U
1,3,5-Trimethylbenzene	5			**240**	**16**	**191**			U	U	U
Xylenes	5	**1,400**	**880**	**700**	**130**	**378.22**	U	U	U	U	U
SVOCs by EPA Method 8270											
2-Methylnaphthalene		19	13	U	U	U	U	U	U	U	U
Naphthalene	10(G)	**85**	**78**	**230**	**18**	**101**	U	U	U	U	U

Analyte (ug/L)	GW Standards[1]	Sample Identification									
		MW-5					MW-7				
Sample Date		March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005
VOCs by EPA Method 8260											
Benzene	1			U	U	U			U	U	U
n-Butylbenzene	5			U	U	U			U	U	U
sec-Butylbenzene	5			U	4.9	2.65			U	U	U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	**28**	U	U	U	**8.2**	U	U	U	U	U
Isopropylbenzene	5			U	4.2	2.11			U	U	U
4-Isopropyltoluene	5				**6.2**	2.3				U	U
Methyl-tert-butyl ether	10 (G)				U	U				U	U
n-Propylbenzene	5			U	**17**	**5.29**			U	U	U
tert-Butylbenzene	5					1.28					U
Toluene	5	U	U	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	5			U	**75**	**72.2**			U	U	U
1,3,5-Trimethylbenzene	5			U	**6.6**	3.02			U	U	U
Xylenes	5	**230**	**790**	U	2.6	**42.21**	U	U	U	U	U
SVOCs by EPA Method 8270											
2-Methylnaphthalene		14	16	U	U	U	U	U	U	U	U
Naphthalene	10(G)	**17**	**13**	U	2.4	5.31	U	U	U	U	4.98

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U - Analyzed for but not detected above laboratory detection limits

NA - Not analyzed for

Only analytes that were detected above laboratory detection limits are reported

Blank cell indicates that the analyte was not analyzed for during that sampling event

Table 3A: (Page 2 of 2) Previous Investigation Groundwater Contamination Summary. On-Site and Off-Site Groundwater Samples. Nature's Way 2002 - 2005. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (ug/L)	GW Standards[1]	Sample Identification									
		MW-8					MW-9				
Sample Date		March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005
VOCs by EPA Method 8260											
Benzene	1			U	U	U			U	U	U
n-Butylbenzene	5			U	U	U			U	U	U
sec-Butylbenzene	5			U	U	U			U	U	U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene	5			U	U	U			U	U	U
4-Isopropyltoluene	5			U	U	U				U	U
Methyl-tert-butyl ether	10 (G)			U	U	U				U	U
n-Propylbenzene	5			U	U	U			U	U	U
tert-Butylbenzene	5					U					U
Toluene	5	U	U	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	5			U	U	U			U	U	U
1,3,5-Trimethylbenzene	5			U	U	U			U	U	U
Xylenes	5	U	U	U	U	U	U	U	U	U	U
SVOCs by EPA Method 8270											
2-Methylnaphthalene		U	U	U	U	U	U	U	U	U	U
Naphthalene	10(G)	U	U	U	U	U	U	U	U	U	U

Analyte (ug/L)	GW Standards[1]	Sample Identification									
		MW-11					MW-12				
Sample Date		March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005
VOCs by EPA Method 8260											
Benzene	1			U	U	U			U	U	U
n-Butylbenzene	5			U	U	U			**21**	U	U
sec-Butylbenzene	5			U	U	U			U	U	1.67
Carbon disulfide	60 (G)	U	U	U	U	U	NA	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	NA	U	**65**	U	U
Isopropylbenzene	5			U	U	U			**22**	U	4.51
4-Isopropyltoluene	5				U	U				U	U
Methyl-tert-butyl ether	10 (G)				U	U				U	U
n-Propylbenzene	5			U	U	U			**62**	U	3.17
tert-Butylbenzene	5					U					U
Toluene	5	U	U	U	U	U	NA	U	U	U	U
1,2,4-Trimethylbenzene	5			U	U	U			**580**	U	**11.7**
1,3,5-Trimethylbenzene	5			U	U	U			**290**	U	U
Xylenes	5	U	U	U	U	U	NA	U	**340**	U	1.31
SVOCs by EPA Method 8270											
2-Methylnaphthalene		U	U	U	U	U	NA	U	U	U	U
Naphthalene	10(G)	U	U	U	U	U	NA	U	**47**	U	U

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U - Analyzed for but not detected above laboratory detection limits

NA - Not analyzed for

Only analytes that were detected above laboratory detection limits are reported

Blank cell indicates that the analyte was not analyzed for during that sampling event

Table 4: (Page 1 of 3). RI Soil Vapor Sample Laboratory Analytical Results. Soil Vapor Samples Inside and Outside Building. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte ($\mu g/m^3$)	Sample Identification															
	Side Wide Soil Vapor Samples															
	SVW-1				SVW-2				SVW-3				SVW-4			
	10/4/2006		11/14/2007		10/4/2006		11/14/2007		10/4/2006		11/14/2007		10/4/2006		11/14/2007	
	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]
VOCs by TO-15																
1,1,1-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1,2-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trimethylbenzene	5.9		7.4		6.6		6.9		0.9		7		3.7		5.9	
1,2-Dibromoethane (ethylene dibromide)	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloropropane	ND		ND		ND		ND		ND		ND		ND		ND	
1,3,5-Trimethylbenzene	3.2		2.9		4.1		3.5		0.9		ND		2.2		2.8	
1,3-Butadiene	ND		ND		ND		ND		ND		ND		ND		ND	
1,3-dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	ND		4.6		ND		ND		ND		ND		ND		4	
1,4- Dioxane	ND		ND		ND		ND		ND		ND		ND		ND	
2,2,4-Trimethylpentane	ND		ND		ND		ND		ND		430	180	ND		9.1	
4-Ethyltoluene	1.9		0.95		2.8		0.75		ND		ND		1		0.65	J
Acetone	ND		ND		ND		ND		ND		ND		ND		ND	
Allyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	
Benzene	1.5		0.68		1.1		ND		0.84		ND		1		ND	
Benzyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	
Bromodichloromethane	ND		ND		ND		ND		ND		ND		ND		ND	
Bromoform	ND		ND		ND		ND		ND		ND		ND		ND	
Bromomethane (methyl bromide)	ND		ND		ND		ND		ND		ND		ND		ND	
Carbon disulfide	13	4.7	1.9		21	4.7	1.4		1.4		11	10	19	4.7	7.6	10
Carbon tetrachloride	ND		ND		ND		ND		0.77	J	ND		ND		ND	
Chlorobenzene	ND		ND		ND		ND		ND		7.8		ND		ND	
Chloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
Chloroform (trichloromethane)	ND		ND		ND		ND		ND		ND		0.55	J	ND	
Chloromethane (methyl chloride)	ND		ND		ND		ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene	ND		1.7		ND		0.81		ND		0.64		ND		1.2	
cis-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND	
Cyclohexane	1.4		ND		ND		ND		ND		ND		ND		ND	
Dibromochloromethane	ND		ND		ND		ND		ND		ND		ND		ND	
Ethyl acetate	ND		ND		ND		ND		ND		ND		ND		0.97	
Ethylbenzene	7.1		1.3		9.1		0.57	J	ND		5		2.6		2.2	
Freon 11	0.86		ND		3.1		1.3		2.2		1.1		4		ND	
Freon 113 trifluorotrichloroethane	ND		ND		1	J	ND		0.78		ND		ND		ND	
Freon 114	ND		ND		ND		ND		ND		ND		ND		ND	
Freon 12	ND		ND		4.4		2.6		3.7		ND		2.9		ND	
Heptane	2.7		ND		9.3		ND		0.46	J	62	10	3.4		ND	
Hexachloro-1,3-butadiene	ND		ND		ND		ND		ND		ND		ND		ND	
Hexane	ND		ND		5.6		ND		0.79		23	10	ND		ND	
Isopropyl alcohol	ND		ND		ND		ND		ND		ND		ND		ND	
m & p- Xylene	14		2.3		22	13	1.2	J	1.1	J	ND		7.5		1.8	
Methyl Butyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl Ethyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl Isobutyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl tert-butyl ether	ND		ND		ND		ND		ND		ND		ND		ND	
Methylene chloride	ND		ND		ND		0.6		ND		0.85		ND		1.3	
o-Xylene	3.0		1.1		6.1		0.57	J	0.4	J	ND		2.4		0.79	
Propylene	ND		ND		ND		ND		ND		ND		ND		ND	
Styrene	ND		ND		0.95		ND		ND		ND		0.78		0.69	
Tetrachloroethylene	2.5		0.97	J	ND		ND		ND		ND		12		1.2	
Tetrahydrofuran	ND		ND		ND		ND		ND		ND		ND		ND	
Toluene	4700		4.7		2900		0.84		15	5.7	ND		1800		9.6	
trans-1,2-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND	
trans-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND	
Trichloroethene	0.6		ND		ND		3.2		0.76	J	ND		ND		6.6	
Vinyl acetate	ND		ND		ND		ND		ND		ND		ND		ND	
Vinyl bromide	ND		ND		ND		ND		ND		ND		ND		ND	
Vinyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	

RESULT = Results reported by laboratory

QL= Quantitation limit

DF[a] = Dilution Factor of 1x except where a number appears.

E = Value above quantitation range

J = Analyte detected at or below quantitation limits

ND = Analyte non-detectable

Table 4: (Page 2 of 3). RI Soil Vapor Sample Laboratory Analytical Results. Soil Vapor Samples Inside and Outside Building. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/m³)	Sample Identification															
	Side Wide Soil Vapor Samples															
	SVW-5				SVW-6				SVW-7				SVW-11		SVW-12	
	10/4/2006		11/14/2007		10/4/2006		11/14/2007		11/14/2007		11/14/2007		11/14/2007		11/14/2007	
	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]
VOCs by TO-15																
1,1,1-Trichloroethane	ND		ND		85	8.3	78	40	1.6		1.2		0.83		140	20
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1,2-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trimethylbenzene	4.2		4.5		4.2		5.4		3.9		5.1		9		1.2	
1,2-Dibromoethane (ethylene dibromide)	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloropropane	ND		ND		ND		ND		ND		ND		ND		ND	
1,3,5-Trimethylbenzene	2		2.9		2.5		2.5		1.9		2.5		5.8		2.3	
1,3-Butadiene	ND		ND		ND		ND		ND		ND		ND		ND	
1,3-dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	ND		ND		ND		3.4		ND		4.5		3.7		2.4	
1,4- Dioxane	ND		ND		ND		ND		ND		ND		ND		ND	
2,2,4-Trimethylpentane	ND		4.9		1.5		ND		2.7		ND		ND		ND	
4-Ethyltoluene	0.9		ND		1.1		0.6	J	1		0.6	J	3.1		0.6	J
Acetone	ND		ND		ND		73	40	ND		84	20	38	20	ND	
Allyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	
Benzene	ND		ND		2.6		ND		3.1		ND		ND		ND	
Benzyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	
Bromodichloromethane	ND		ND		ND		ND		ND		ND		ND		ND	
Bromoform	ND		ND		ND		ND		ND		ND		ND		ND	
Bromomethane (methyl bromide)	ND		ND		ND		ND		ND		ND		ND		ND	
Carbon disulfide	3.7		1.8		23	4.7	1.6		13	4.7	2.8		0.76		ND	
Carbon tetrachloride	ND		ND		ND		ND		ND		ND		ND		ND	
Chlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
Chloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
Chloroform (trichloromethane)	ND		ND		ND		ND		0.94		ND		ND		ND	
Chloromethane (methyl chloride)	ND		ND		ND		ND		1		ND		ND		ND	
cis-1,2-Dichloroethene	ND		0.52	J	ND		1.3		ND		1.3		0.73		ND	
cis-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND	
Cyclohexane	ND		0.63		ND		ND		ND		ND		ND		ND	
Dibromochloromethane	ND		ND		ND		ND		ND		ND		ND		ND	
Ethyl acetate	ND		ND		ND		ND		ND		ND		ND		ND	
Ethylbenzene	2.1		0.66		4.8		0.84		2.8		0.79		66	20	0.75	
Freon 11	2.1		1.3		3.3		1.5		1.1		ND		1.1		ND	
Freon 113 trifluorotrichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
Freon 114	ND		ND		ND		ND		ND		1.9		ND		ND	
Freon 12	3.6		2.5		3.5		2.6		3.3		1.5		2.4		ND	
Heptane	ND		ND		9.7		ND		11	6.2	ND		ND		ND	
Hexachloro-1,3-butadiene	ND		ND		ND		ND		ND		ND		ND		ND	
Hexane	ND		ND		ND		ND		15	5.4	ND		ND		ND	
Isopropyl alcohol	ND		ND		ND		ND		ND		ND		ND		ND	
m & p- Xylene	8		1.2	J	10		1.5		7.5		1.4		380	20	1.8	
Methyl Butyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl Ethyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl Isobutyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl tert-butyl ether	ND		ND		ND		ND		ND		ND		ND		ND	
Methylene chloride	ND		ND		ND		0.99		ND		1		ND		ND	
o-Xylene	4.0		ND		2.6		0.71		2.5		0.66		120	20	0.71	
Propylene	ND		ND		ND		ND		ND		ND		ND		ND	
Styrene	ND		ND		0.48	J	0.56	J	0.48	J	0.65		ND		ND	
Tetrachloroethylene	14		3.9		350	41	500	40	13		0.76	J	84	20	260	20
Tetrahydrofuran	ND		ND		ND		ND		ND		ND		ND		ND	
Toluene	700		0.77		9300	380	0.69		750		1.3		0.77		1.2	
trans-1,2-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND	
trans-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND	
Trichloroethene	ND		2.3		0.55	J	5.7		ND		6.4		2.5		3.3	
Vinyl acetate	ND		ND		ND		ND		ND		ND		ND		ND	
Vinyl bromide	ND		ND		ND		ND		ND		ND		ND		ND	
Vinyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	

RESULT = Results reported by laboratory

QL= Quantitation limit

DF[a] = Dilution Factor of 1x except where a number appears.

E = Value above quantitation range

J = Analyte detected at or below quantitation limits

ND = Analyte non-detectable

Table 4: (Page 3 of 3). RI Soil Vapor Sample Laboratory Analytical Results. Soil Vapor Samples Inside and Outside Building. Final Engineering Report. 47 Utica Street, Hamilton, New York.

Analyte (µg/m³)	Sample Identification							
	Sub-Slab Soil Vapor Samples							
	SSV-8		SSV-9		SSV-10		SVW-13	
	10/4/2006		10/4/2006		10/4/2006		11/14/2007	
	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]
VOCs by TO-15								
1,1,1-Trichloroethane	0.83		0.72	J	1.3		26	5
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND	
1,1,2-Trichloroethane	ND		ND		ND		ND	
1,1-Dichloroethane	ND		ND		ND		ND	
1,1-Dichloroethene	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	ND		ND		ND		ND	
1,2,4-Trimethylbenzene	3		4.7		3.4		4.7	
1,2-Dibromoethane (ethylene dibromide)	ND		ND		ND		ND	
1,2-Dichlorobenzene	ND		ND		ND		ND	
1,2-Dichloroethane	ND		ND		ND		ND	
1,2-Dichloropropane	ND		ND		ND		ND	
1,3,5-Trimethylbenzene	2.5		2.6		1.8		3.1	
1,3-Butadiene	ND		ND		ND		ND	
1,3-dichlorobenzene	ND		ND		ND		ND	
1,4-Dichlorobenzene	ND		ND		ND		2.5	
1,4- Dioxane	ND		ND		ND		ND	
2,2,4-Trimethylpentane	4.1		1.9		2.9		0.66	J
4-Ethyltoluene	0.85		1		0.95		ND	
Acetone	ND		ND		ND		ND	
Allyl chloride	ND		ND		ND		ND	
Benzene	9.1	4.9	2.2		10	4.9	ND	
Benzyl chloride	ND		ND		ND		ND	
Bromodichloromethane	ND		ND		ND		ND	
Bromoform	ND		ND		ND		ND	
Bromomethane (methyl bromide)	ND		ND		ND		ND	
Carbon disulfide	20	4.7	1.8		2.8		1.7	
Carbon tetrachloride	ND		ND		ND		ND	
Chlorobenzene	ND		ND		ND		ND	
Chloroethane	ND		ND		ND		ND	
Chloroform (trichloromethane)	0.84		1.1		ND		ND	
Chloromethane (methyl chloride)	ND		ND		ND		ND	
cis-1,2-Dichloroethene	ND		ND		0.64		ND	
cis-1,3-Dichloropropene	ND		ND		ND		ND	
Cyclohexane	20	5.2	3.5		11	5.2	ND	
Dibromochloromethane	ND		ND		ND		ND	
Ethyl acetate	ND		ND		ND		ND	
Ethylbenzene	1.1		1.2		2.1		0.75	
Freon 11	1.9		2.3		2.1		1.8	
Freon 113 trifluorotrichloroethane	ND		ND		ND		ND	
Freon 114	ND		ND		ND		9.2	
Freon 12	3.6		3.8		3.9		2.9	
Heptane	17		7		23	6.2	ND	
Hexachloro-1,3-butadiene	ND		ND		ND		ND	
Hexane	34	5.4	7.4		29	5.4	ND	
Isopropyl alcohol	ND		ND		ND		ND	
m & p- Xylene	7.9		7		9.7		1.8	
Methyl Butyl Ketone	ND		ND		ND		ND	
Methyl Ethyl Ketone	ND		ND		ND		ND	
Methyl Isobutyl Ketone	ND		ND		ND		ND	
Methyl tert-butyl ether	12	5.5	ND		10	5.5	ND	
Methylene chloride	19	5.3	2.9		2.6		ND	
o-Xylene	3.0		2.7		3.5		1	
Propylene	ND		ND		ND		ND	
Styrene	ND		ND		ND		ND	
Tetrachloroethylene	2.1		15		2.5		400	40
Tetrahydrofuran	ND		ND		ND		ND	
Toluene	17	5.7	8.4	0.57	19	5.7	1	
trans-1,2-Dichloroethene	ND		ND		ND		ND	
trans-1,3-Dichloropropene	ND		ND		ND		ND	
Trichloroethene	0.6	J	0.66	J	2.3		1.6	
Vinyl acetate	ND		ND		ND		ND	
Vinyl bromide	ND		ND		ND		ND	
Vinyl chloride	ND		ND		ND		ND	

RESULT = Results reported by laboratory

QL= Quantitation limit

DF[a] = Dilution Factor of 1x except where a number appears.

E = Value above quantitation range

J = Analyte detected at or below quantitation limits

ND = Analyte non-detectable

APPENDICES

Appendix A

Survey Map,
Metes and Bounds Survey

Notes:

1) REFERENCE IS MADE TO MAP OF PROPERTY OF AGWAY CORPORATION, MADE BY WISSENBACH LAND SURVEYING LAST DATED SEPT. 10, 2002.

2) REFERENCE IS MADE TO MAP SHOWING PROPERTY OF JEROME BACON, MADE BY KEMPER–McLOUGHLIN, CO.,INC, DATED JANUARY 9, 1926; MAP SHOWING STANDARD OIL CO. OF N.Y. MADE BY R.H.ALBRECHT, C.E., DATED DEC. 7, 1971; MAP FILED I N THE MADISON COUNTY CLERK'S OFFICE #1978 MAP FILED IN THE N.Y.S.D.O.T., HAMILTON–BOUCKVILLE S.H. NO.5492 MAP NO.22 PARCEL NO.38.

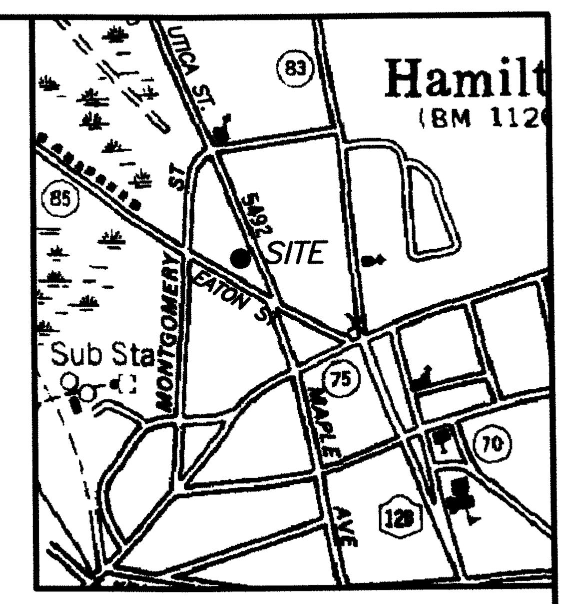
3) REFERENCE IS MADE TO BOUNDARY AND SUBDIVISION MAP OF THE LANDS OF THE ESTATE OF LOUISE HESS, MADE BY RHINEVAULT SURVEYORS, P.C., LAST DATED MAY 11, 2001.

4) REFERENCE IS MADE TO MAP OF PROPERTY OF WERNER AND DANIELLE C. KOENIG, MADE BY RHINEVAULT SURVEYORS, P.C., LAST DATED OCTOBER 16, 1989.

5) REFERENCE IS MADE TO MAP OF PROPERTY OF ESTATE OF PRESTON E. TRASK, MADE BY RHINEVAULT SURVEYORS, P.C., LAST DATED DECEMBER 31, 1985.

6) REFERENCE IS MADE TO PROPERTY SURVEY FOR MADISON COUNTY BOARD OF SUPERVISORS LIBER 1220 PAGE 296, MADE BY WISSENBACH LAND SURVEYING, L.S., LAST DATED MARCH 30, 2005.

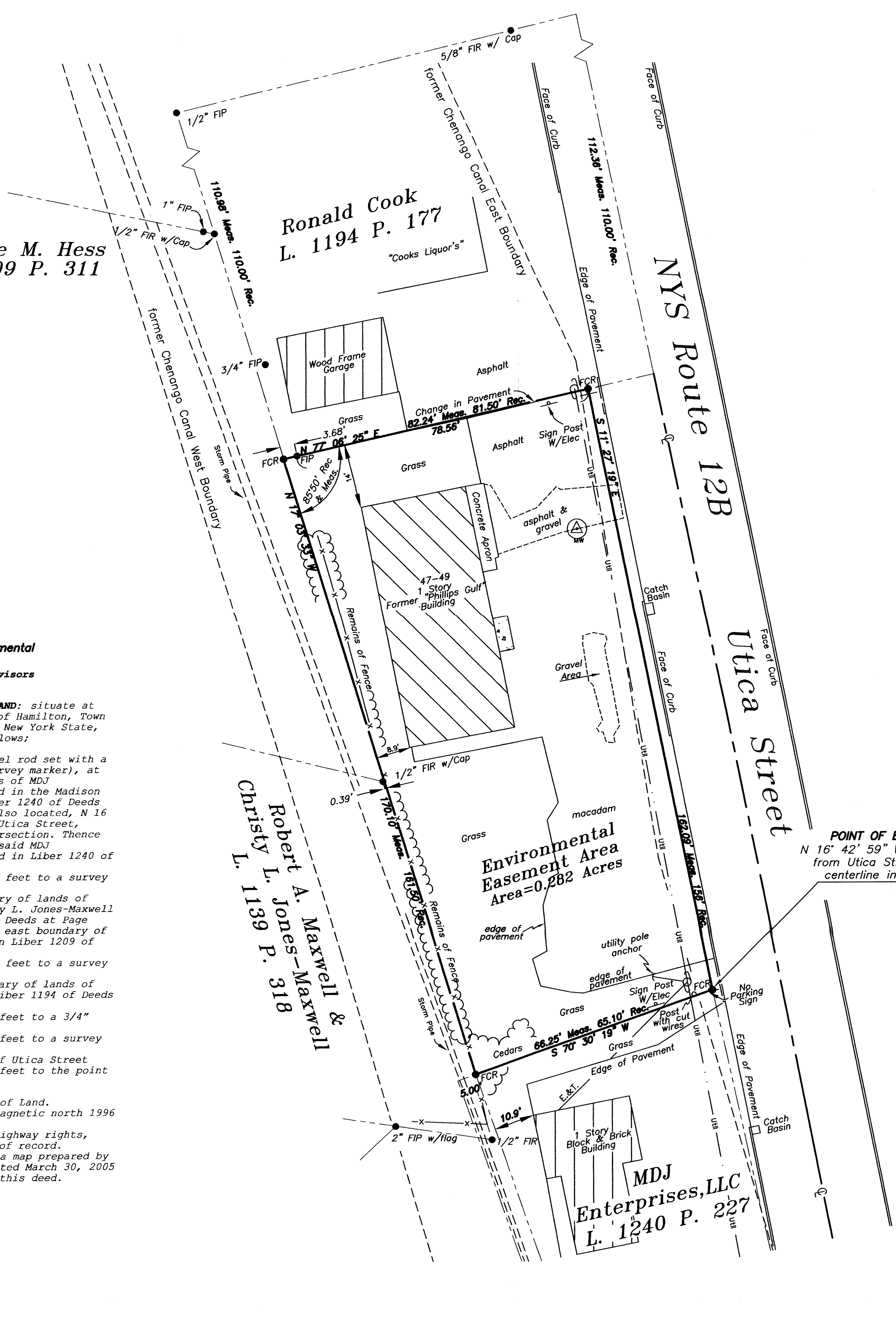
This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.



LOCATION MAP

LEGEND

- FIP — Found Iron Pipe
- FIR — Found Iron Rod
- FCR — Found Capped Rod (Wissenbach)
- Tree Line / Edge of Woods
- Utility Pole with Overhead Wires
- MW — Monitor well
- Property Line
- ℄ — Centerline (existing)
- Rec. — Record Measurement in Deed
- Meas. — Measurement in Field



Engineering and institutional controls include maintenance of asphalt pavement, building slab and soil covers. The engineering and institutional controls for the Easement are set forth in detail in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, New York 12233.

Legal Description and Environmental Easement Description

Madison County Board of Supervisors Survey Description

ALL THAT TRACT OR PARCEL OF LAND: situate at 47&49 Utica Street, Village of Hamilton, Town of Hamilton, Madison County, New York State, bounded and described as follows;

Beginning at a 5/8" steel rod set with a tag (hereinafter called a survey marker), at the northeast corner of lands of MDJ Enterprises, LLC. as recorded in the Madison County Clerk's Office in Liber 1240 of Deeds at Page 227. Said point is also located, N 16 42' 59" W, 456.20 feet from Utica Street, Eaton Street centerline intersection. Thence along the north boundary of said MDJ Enterprises, LLC. as recorded in Liber 1240 of Deeds at Page 227,

S 70 30' 19" W, 66.25 feet to a survey marker.

Thence along the east boundary of lands of Robert A. Maxwell and Christy L. Jones-Maxwell as recorded in Liber 1139 of Deeds at Page 318,and continuing along the east boundary of Louise M. Hess as recorded in Liber 1209 of Deeds at Page 311,

N 17 03' 33" W, 170.10 feet to a survey marker.

Thence along the south boundary of lands of Ronald Cook as recorded in Liber 1194 of Deeds at Page 177

N 77 06' 25" E, 3.68 feet to a 3/4" iron pipe and

N 77 06' 25" E, 78.56 feet to a survey marker.

Thence along the west side of Utica Street

S 11 27' 19" E, 162.09 feet to the point of beginning.

Containing 0.282 Acres of Land.

Bearings are based on magnetic north 1996 and all distances are level.

Subject to all public highway rights, rights of way and easements of record.

Reference is made to a map prepared by Wissenbach Land Surveying dated March 30, 2005 and filed concurrently with this deed.

DEED REFERENCE

Madison County Board of Supervisors
Liber 1220 of Deeds at Page 295
Dated April 18, 2002
Recorded April 23, 2002

Only apparent easements (if any) are shown on this survey. No abstract of title was available.

Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

Only copies from the original of this survey marked with an original seal shall be considered to be valid, true copies.

I, Susan M. Anacker, L.S., Lic. No. 50321, (N.Y.), do hereby certify that this Map was prepared by me from an instrument survey in accordance with the most current Code of Practice for Land Surveys, first adopted May 19,1973, by the N.Y.S. Association of Professional Land Surveyors.
This Certification shall run only to the following:

1. The People of the State of New York acting through their Commissioner of the Department of Environmental Conservation
2. Elite Abstract Services, LLC
3. Madison County Board of Supervisors

Susan M. Anacker
November 13, 2013

ORIGINAL STAMPED IN RED INK

MAP

of property of

MADISON COUNTY BOARD OF SUPERVISORS

Site No. E7–27–011

T.M. #153.83–1–13
47–49 Utica Street
VILLAGE OF HAMILTON, COUNTY OF MADISON
STATE OF NEW YORK

Dated: November 13, 2013 Scale: 1" = 20'

Drawn By: K.L. Doxtader

Survey and Map by: Susan M. Anacker, Professional Land Surveyor
Susan M. Anacker, L.S. Lic # 50321
11082 Davis Road East, Deerfield, New York 13502
(315) 724–6800

E13–115

Appendix B

Digital Copy of the FER
(on CD)

Appendix C

Digital Copy of the SMP
(on CD)

47 Utica Street ERP Site

MADISON COUNTY, NEW YORK

Site Management Plan

NYSDEC Site Number: ERP #E727011

Prepared for:
Madison County, New York
138 North Court Street
Wampsville, NY 13163

Prepared by:

GHD Consulting Engineers, LLC
One Remington Park Drive
Cazenovia, New York 13035
(315) 679-5800

Revisions to Final Approved Site Management Plan:

Revision #	Submitted Date	Summary of Revision	DEC Approval Date
1		Revisions based on NYSDEC Comment Letter Dated November 25, 2013	

AUGUST 2013
REVISED: DECEMBER 2014

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SITE MANAGEMENT PLAN

1.0 INTRODUCTION AND DESCRIPTION OF REMEDIAL PROGRAM

1.1 INTRODUCTION

This document is required as an element of the remedial program at the 47 Utica Street Site (hereinafter referred to as the “Site”) under the New York State (NYS) Environmental Restoration Program (ERP) Site #727011 administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with State Assistance Contract (SAC) #C302761, which was executed on October 11, 2005 and last amended on June 15, 2010.

1.1.1 General

Madison County entered into a SAC with the NYSDEC to remediate an approximately 0.282-acre property located in the Village of Hamilton, Madison County, New York. This SAC required the Remedial Party, Madison County, to investigate and remediate contaminated media at the Site. A figure showing the Site location of this 0.282-acre Site is provided in Figure 1. The legal description of the Site is more fully described in the metes and bounds Site description (Appendix A) and are shown in Figure 2.

After completion of the remedial work described in the Interim Remedial Measure (IRM) Work Plan, some contamination was left in the subsurface at this Site, which is hereafter referred to as ‘remaining contamination.” This Site Management Plan (SMP) was prepared to manage remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State.

This SMP was prepared by GHD Consulting Engineers, LLC (GHD), on behalf of Madison County, in accordance with the requirements in NYSDEC DER-10 Technical

Guidance for Site Investigation and Remediation, dated May 2010, and the guidelines provided by NYSDEC. This SMP addresses the means for implementing the Institutional Controls (ICs) and Engineering Controls (ECs) that are required by the Environmental Easement for the Site.

1.1.2 Purpose

The Site contains contamination left after completion of the remedial action. Engineering Controls have been incorporated into the Site remedy to control exposure to remaining contamination during the use of the Site to ensure protection of public health and the environment. An Environmental Easement recorded with the Madison County Clerk will require compliance with this SMP and all ECs and ICs placed on the Site. The ICs place restrictions on Site use, and mandate operation, maintenance, monitoring, and reporting measures for all ECs and ICs. This SMP specifies the methods necessary to ensure compliance with all ECs and ICs required by the Environmental Easement for contamination that remains at the Site. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Easement and the grantor's successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

This SMP provides a detailed description of all procedures required to manage remaining contamination at the Site after completion of the Remedial Action, including: (1) implementation and management of all Engineering and Institutional Controls; (2) implementation of a Soil Management Plan; and (3) performance of periodic inspections, certification of results, and submittal of Periodic Review Reports.

To address these needs, this SMP includes two plans: (1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; and (2) a Soil Management Plan for management of contaminated material encountered during future Site work.

This plan 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 Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Easement, which is grounds for revocation of the Certificate of Completion (COC);
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6NYCRR Part 375 and the SAC (SAC #C302761) for the Site, and thereby subject to applicable penalties.

1.1.3 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. In accordance with the Environmental Easement for the Site, 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.

1.2 SITE BACKGROUND

1.2.1 Site Location and Description

The Site is located in the Village of Hamilton, County of Madison, New York and is identified as Tax Parcel 153.83-1-13 on the Village of Hamilton Tax Map. The Site is an approximately 0.282-acre area bounded by commercial properties to the north and to the south, Utica Street to the east with mixed residential and commercial properties across Utica Street to the east, and residential properties to the west. The boundaries of the Site are more fully described in Appendix A – Environmental Easement and Metes and Bounds.

1.2.2 Site History

The Site was initially used as a single family residence until the mid 1970's. It was then used as a gasoline service station for at least 25 years and was most recently also used as an automobile repair shop. The Site has been vacant since 2000.

Historically the Site contained:

- A single story garage with three (3) bays, which remains on-Site;

- Seven (7) underground storage tanks (USTs) of varying sizes, which were decommissioned and removed prior to completion of the remedial investigation (RI);
- One (1) hydraulic lift in a garage bay, which was removed after completion of the RI as part of the second interim remedial measure (IRM);
- A fuel dispenser island, which was removed prior to completion of the RI; and
- One (1) above ground fuel oil storage tank inside the building, which was removed after completion of the RI as part of the second IRM.

1.2.3 Geologic Conditions

Ground surface cover types consist of pavement, gravel, and minor grassy areas. Soil borings and excavations conducted on-Site indicated that subsurface material generally consists of gravelly loam with a widespread, but thin, layer of fill material across the majority of the Site.

Groundwater is generally encountered at 6- to 10-feet below ground surface (bgs), based on measurements taken from on-Site and off-Site groundwater monitoring wells. Based on groundwater elevation information obtained from depth to groundwater measurements, it was determined that the water table in the vicinity of the Site is virtually flat and that the prevailing groundwater flow direction is to the south-southwest. Groundwater elevation data is included in Table 1 and a groundwater flow figure is shown in Figure 3.

1.3 SUMMARY OF PREVIOUS INVESTIGATION FINDINGS

The results of previous investigations and the RI were provided in the RI Report (S&W, February 2008), along with analytical data tables, laboratory analytical reports, and a human health exposure assessment. This section of the RAA provides a general summary of the results of previous investigations and remedial measures. Results discussed below are summarized in Table 1 through Table 10 and Figure 2 through Figure 7.

The Site was initially investigated under the New York State Spills Program, prior to the Site's entry into the Environmental Restoration Program (ERP). In addition to activities directed by NYSDEC under the Spills Program, IRMs have been conducted at the Site as part of the ERP, concurrent with RI activities.

1.3.1 NYSDEC SPILLS Program (2000 – 2005)

The fuel dispensers and five (5) USTs were removed from the Site in November 2000, under the direction of NYSDEC, before the county took title to the property. During tank removal activities, grossly impacted soil was encountered adjacent to the USTs. Based on these field observations, the NYSDEC Spills Hotline was contacted and Spill File Number 00-09395 was assigned to the release.

Following the 2000 tank removal activities, NYSDEC directed a Site investigation under the State Spills Program. Nature's Way installed a total of thirty (30) soil borings on-Site and off-Site. Twelve (12) groundwater monitoring wells were completed in selected soil borings, including seven (7) on-Site monitoring wells and five (5) off-Site monitoring wells.

The Nature's Way Site investigation activities identified the presence of petroleum contamination in on-Site soil and groundwater samples, primarily in the area immediately south of the former UST locations (Preliminary Subsurface Investigation Report, Nature's Way, April 2002). Evidence of petroleum impacts were also identified in samples collected from off-Site groundwater monitoring wells located west of the Site, with petroleum volatile organic compounds (VOCs) detected in two (2) of the five (5) off-Site monitoring wells southwest of the Site. The results also indicated there was no semi-volatile organic compound (SVOC) groundwater plume associated with the Site.

After the County took title of the Site in 2002, Nature's Way continued to collect groundwater data from the 12 monitoring wells on a quarterly basis at NYSDEC's direction under the Spills Program. Based on the quarterly results, the groundwater flow direction was consistently towards the southwest. Groundwater contamination south and east of the former UST area was evident, primarily in monitoring wells MW-1, MW-3, MW-4, MW-5, and MW-6. Off-Site groundwater data indicated contamination in monitoring well MW-10.

1.3.2 ERP Interim Remedial Measures (2005 – 2007)

The Site was accepted into the ERP on May 26, 2005, which marked the end of work under the Spills Program, and the beginning of investigation and remedial action under the ERP. The County, as an ERP Volunteer, agreed with NYSDEC that the initial action under the ERP would be to remove the remaining 550 gallon UST at the southwestern corner of the building as an Interim Remedial Measure (IRM). S&W prepared an IRM Work Plan for the County in August 2005, to remove the UST and to excavate petroleum impacted soils encountered during its excavation.

The IRM was conducted in October 2005 following NYSDEC approval of the IRM Work Plan. As the 550 gallon UST was being removed, a 275 gallon UST was discovered adjacent to it. The second UST was also removed, along with approximately 45 tons of petroleum impacted soil, during the IRM.

Confirmatory soil samples were taken from the tank excavation side walls and indicated that the IRM activities had removed the majority of potential source material associated with the two (2) USTs. The IRM Report (S&W, February 2006) noted that the northern and western limits of the UST excavation stopped at the southern sidewall of the building and western Site boundary, respectively. As a result, the report concluded that small amounts of residual petroleum impacts potentially remain at these locations.

The IRM activities discussed above were followed by the initial phase of Remedial Investigation (RI) activity in 2006. Based on the initial RI findings, additional IRM activities were proposed in an IRM-2 Work Plan (S&W, June 2007), and the IRM-2 was completed at the Site in August 2007 in order to address other potential contamination sources. IRM-2 activities included:

- removal of one (1) 275 gallon above ground fuel oil tank and its contents from inside the building;
- removal of a section of waste oil pipe that ran from the west wall of the building to the former UST area and plugging of the pipe's floor penetration with cement;
- removal of the former hydraulic lift and contained hydraulic fluid;
- removal of the former pump island, including soil and piping adjacent to it;

- cleaning and plugging with cement a floor sump (Bay 2) and dry sump (Bay 3);
- removal of surface soil from two (2) discrete areas outside the building where sample results identified relatively elevated levels of polycyclic aromatic hydrocarbons (PAHs);
- steam cleaning of wall and floors of Bays 2 and 3 to remove oily residue; and
- removal of nine (9) 55 gallon drums.

The results of the 2007 IRM-2 activities were presented in the Interim Remedial Measure – 2 Report (S&W, January 2008). IRM activities completed under the ERP in 2005 and 2007 removed approximately 60 tons of soil and debris related to past Site operations, two (2) remaining tanks and their contents, and nine (9) drums and their contents from the Site. Soil analytical results from the IRMs indicated that Commercial Use Soil Cleanup Objectives (SCOs) have been met at the Site, except for the following compounds in a discrete area of the Site:

- Benzo(a)pyrene;
- Benzo(a)anthracene;
- Benzo(b)fluoranthene; and
- Dibenzo(a,h)anthracene.

1.3.3 ERP Remedial Investigation (2006 – 2007)

A Remedial Investigation (RI) was completed at the Site by S&W in two stages. Initial RI work was conducted during September and October 2006, following approval of the Remedial Investigation Work Plan (S&W, May 2006). Based on a review of the RI results with NYSDEC, it was agreed that additional RI work was warranted, both on-Site and off-Site. A Supplemental Remedial Investigation Work Plan (S&W, June 2007) was prepared and subsequently approved by NYSDEC. The Supplemental RI was conducted between August and November 2007.

The RI and Supplemental RI drew upon available information provided by previous Site investigations, as well as additional data provided by RI activities. The RI and Supplemental RI included:

- Collection of three (3) surface soil samples in September 2006 to evaluate the potential for exposure to Site contamination by direct contact with surface soils. The samples were collected from the upper 2-inches of soil, excluding vegetation zone, and analyzed for target compound list (TCL) volatile organic compounds (VOCs) by EPA Method 8260, TCL semi-volatile organic compounds (SVOCs) by EPA Method 8270, and target analyte list (TAL) metals by EPA Methods 6010/7470/7471.
- Installation and sampling of ten (10) soil vapor monitoring wells, seven (7) in September 2006 (SV-1 through SV-7) and three (3) in August 2007 (SV-11 through SV-13). One (1) soil vapor monitoring well (SV-13) was installed inside the on-Site building. The other nine (9) soil vapor monitoring wells were installed along the Site perimeter. Three (3) vapor penetration points (SV-8 through SV-10) were drilled through the floor of the building to collect shallow sub-slab soil vapor samples. The soil vapor monitoring wells are all constructed at a depth of 5-feet below ground surface with a 6-inch long, ½-inch diameter stainless steel screen and ¼-inch polyethylene tubing rising to the surface.

  Two rounds of soil vapor samples were collected and samples were analyzed for VOCs by EPA Method TO-15. The first round was completed in October 2006, and included the seven (7) soil vapor monitoring wells installed at that time (SV-1 through SV-7) and the three (3) vapor penetration points inside the building (SV-8 through SV-10). The second round was collected in November 2007, and included the soil vapor monitoring wells SV-1 through SV-7 and SV-11 through SV-13.
- Completion of ten (10) soil borings both on-Site and off-Site to characterize the subsurface. Nine (9) were completed in 2006 and one was completed in 2007. Four (4) of the borings were completed as groundwater monitoring wells (MW-13, MW-14, and MW-15 installed off-Site in 2006; and MW-16 installed on-Site in 2007). The six (6) remaining soil borings (B-19 through B-24) were completed on-Site in 2006.

One (1) soil sample was taken from each boring at the soil/groundwater interface. Each sample was analyzed for TCL VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, and TAL metals by EPA Methods 6010/7470/7471. The four (4) groundwater monitoring wells were constructed of 2-inch diameter PVC casing with 10-feet of 0.01-inch slot well screen and a flush mount protective cover.

- Collection of three rounds of groundwater samples from specific on-Site and off-Site groundwater monitoring wells. The first round of groundwater samples were taken in October 2006 and included samples from eleven (11) groundwater monitoring wells, including on-Site monitoring wells MW-2, MW-3, MW-4, and MW-6 and off-Site monitoring wells MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, and MW-15.

  The second and third round of groundwater samples were taken in September and November 2007, respectively. Each round included samples from eleven (11) groundwater monitoring wells, including on-Site monitoring wells MW-3, MW-4, MW-5, MW-6, and MW-16 and off-Site monitoring wells MW-8, MW-10, MW-11, MW-13, MW-124, and MW-15.

  Each groundwater sample was collected using a bladder pump and analyzed for TCL VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, total polychlorinated biphenyls (PCBs) by EPA Method 8082, and TAL metals by EPA Methods 6010/7470. Depth to water measurements and field parameters were also collected during each round of sampling.
- Completion of a fish and wildlife resource evaluation to identify fish and wildlife resources on adjacent and downgradient properties, to identify contaminant migration patterns that may potentially expose fish and wildlife resources to Site-related contaminants, and to identify specific contaminants of ecological concern.
- Completion of a human health exposure assessment to determine whether human receptors, both on-Site and off-Site, are or will be potentially exposed to Site-related contaminants. The purpose of the exposure assessment was to

qualitatively determine the route, intensity, frequency, and duration of actual or potential exposure of humans to Site-related contaminants.

Results of the RI and Supplemental RI were reported together in the Supplemental Remedial Investigation Report (S&W, February 2008). In general, results indicated that:

- Sampling conducted for the RI, along with confirmatory soil samples collected following IRM source removals, indicate that all identified significant contamination sources at the Site have been removed.
- Commercial Use SCOs have been met at the Site, with the exception of two (2) SVOCs in surface soil sample SS-2. SS-2 is located west of the Site building and contained dibenzo(a,h)anthracene (1.6 mg/kg) and indeno(1,2,3-cd)pyrene (6.1 mg/kg) at concentrations that exceed applicable Commercial Use SCOs of 0.56 mg/kg and 5.6 mg/kg, respectively.
- Ethylbenzene and xylenes were the only VOCs detected in excess of Class GA groundwater standards in groundwater samples taken from on-Site and off-Site groundwater monitoring wells. These exceedances occurred in samples taken from on-Site groundwater monitoring wells MW-3, MW-4, and MW-6 and off-Site groundwater monitoring well MW-10.
- Naphthalene was the only SVOC detected in excess of Class GA groundwater standards in groundwater samples taken from on-Site and off-Site groundwater monitoring wells. Exceedances occurred in samples taken from on-Site groundwater monitoring well MW-3 and MW-4 and off-Site groundwater monitoring well MW-10.
- Iron and sodium were detected above Class GA groundwater standards in every groundwater sample analyzed and for all three rounds of sampling. In addition to these two metals, manganese was detected above standards in the second (September 2007) and third (November 2007) rounds of groundwater sampling. All three of these metals are common naturally occurring elements and are abundant in soil and natural groundwater.

  The first sampling round (October 2006) also detected several trace metals above standards, but none of these metals were detected in the following two rounds of sampling. It is believed that the initial detections were likely due to elevated turbidity of the sample water.

- VOCs were detected in all of the soil vapor samples that were analyzed, most of which are commonly associated with petroleum fuels. Soil vapor data did not indicate an active source of petroleum vapor contamination exists at the Site, based on concentrations in close proximity to former removed structures that were not discernibly higher than elsewhere on the Site where no known or suspected contamination sources exist. The majority of compounds detected in soil vapor samples were not detected in soil or groundwater samples. Tetrachloroethene (PCE) was also detected in soil vapor samples collected from the northeast corner of the Site adjacent to the northeast corner of the building.
- The human health exposure assessment determined that two (2) exposure pathways are potentially complete under current Site conditions and four (4) pathways are potentially complete under anticipated future Site conditions. Current pathways include potential on-Site contact with surface soil behind (west of) the Site building and potential off-Site contact with soil vapors (i.e. soil vapor intrusion). Future pathways include potential on-Site contact with surface soil behind (west of) the Site building, potential on-Site contact with groundwater, potential on-Site contact with soil vapor (i.e. soil vapor intrusion), and potential off-Site contact with soil vapors (i.e. soil vapor intrusion).
- The fish and wildlife resource evaluation determined that the study area surrounding the Site supports a diversity of wildlife resources typical of suburbanized areas, and fish and wildlife recreational opportunities exist within ½ mile of the Site. However, exposure pathways for potential contaminants of concern are limited for this Site, based on its location, current condition, and relative position with regard to surface water resources. Potential impacts to fish and wildlife resources from exposure to the subject Site are considered minimal.

1.3.4 ERP Supplemental Sampling and Soil Excavation (2008)

Supplemental sampling and soil excavation was conducted at the Site by S&W Redevelopment of North America, LLC (SWRNA) in August and September 2008. NYSDEC requested that groundwater samples be collected from four (4) on-Site groundwater monitoring wells (MW-3, MW-4, MW-6, and MW-16) and four (4) off-Site groundwater monitoring wells (MW-10, MW-13, MW-14, and MW-15) in August 2008. In addition, the Department requested that a temporary groundwater monitoring well (MW-17) be installed, adjacent to the northeast corner of the Site building where PCE concentrations were detected in previous soil vapor samples, and sampled. Two (2) soil samples were taken from the soil boring for temporary monitoring well MW-17. The samples were collected from the soil/groundwater interface (MW17-1 - 7.5 to 8-feet bgs) and from the bottom of the boring (MW17-2 - 13 to 14-feet bgs) and were analyzed for TCL VOCs by EPA Method 8260. Each groundwater sample was analyzed for TCL VOCs by EPA Method 8260.

In September 2008, approximately 0.3 cubic yards of soil was removed from a discrete area (approximately 5-feet long, 1.5-feet wide, and 10-inches deep) on the west side of the Site building and an end-point soil sample was taken from the bottom of the excavation and analyzed for TCL SVOCs by EPA Method 8270. This work was also undertaken at the request of the Department, to supplement an IRM that took place in 2007 to remove soils from this discrete area impacted with polycyclic aromatic hydrocarbons (PAHs) above Commercial Use SCOs.

In general, results of the supplemental sampling and soil excavation identified:

- On-Site groundwater samples from groundwater monitoring wells MW-3, MW-4, and MW-6 identified ethylbenzene, naphthalene, and xylenes at concentrations that exceeded Class GA water quality standards. PCE was detected in the groundwater sample taken from on-Site groundwater monitoring well MW-17 and acetone was detected in the groundwater sample taken from on-Site groundwater monitoring well MW-6, however, both of these detected concentrations were below groundwater standards.

- Off-Site groundwater samples from groundwater monitoring wells MW-14 and MW-15 did not identify any VOCs at concentrations that exceeded laboratory detection limits. The sample taken from groundwater monitoring well MW-10 identified naphthalene and xylenes above Class GA water quality standards. The sample taken from groundwater monitoring well MW-13 identified acetone, but concentrations were below standards.
- Soil samples MW17-1 and MW17-2 identified acetone, naphthalene, toluene, and trichloroethene at concentrations that were well below Commercial Use SCOs. Soil sample MW17-1 also identified PCE at concentrations that did not exceed Commercial Use SCOs.
- The excavation end-point soil sample identified one (1) SVOC (benzo(a)pyrene – 2.3 mg/kg) above Commercial Use SCOs.

It was concluded that groundwater analytical results were fairly consistent with previous sampling results; that PCE was identified on-Site in one groundwater sample and the concentration was below the groundwater standard; and that no further excavation or sampling was recommended in the discrete area behind the Site building.

1.3.5 Groundwater Monitoring (2009)

SWRNA performed groundwater monitoring activities in March 2009. Groundwater samples were taken from on-Site groundwater monitoring wells MW-3 and MW-4 and off-Site groundwater monitoring wells MW-10 and MW-15, and analyzed for TCL VOCs by EPA Method 8260. It was concluded that groundwater analytical results were fairly consistent with previous sampling events (Figure 9).

1.3.6 Monitoring Well Decommissioning (2012)

GHD Consulting Engineers, LLC (GHD) performed well decommissioning activities at the Site in 2012 and reported the activities to the NYSDEC in a letter report dated June 2012. Wells were decommissioned in accordance with CP-43 – Groundwater Monitoring Well Decommissioning Policy (November 2009). On-Site groundwater monitoring wells MW-2, -3, -4, -5, -6, -7, -16, HVE-1, and AS-1 and off-Site groundwater monitoring wells MW-8, -9, -10, -11, -12, -13, -14, and -15 were decommissioned. On-Site soil vapor wells SVW-1, -2, -3, -4, -5, -6, and -11 were also decommissioned.

Groundwater monitoring well MW-1 was not decommissioned because it was removed during a previous IRM excavation that occurred in the vicinity of the well. Soil vapor well SVW-7 was not decommissioned because it could not be located in the field. Soil vapor well SVW-13 was not decommissioned because it is located inside the Site building and access could not be obtained.

1.3.7 Groundwater Well Installation and Sampling (2014)

At the request of the NYSDEC and NYSDOH, Madison County retained GHD Consulting Services Inc. (GHD) to install two (2) soil borings in the south-southwest portion of the Site, downgradient from historic Site monitoring wells MW-3 and MW-4, on September 17, 2014. The soil borings were completed to a depth of 16 feet below ground surface (bgs) using direct push techniques. Continuous soil samples were taken during boring completion using macro-core soil sampling methods. Soil samples were examined by GHD's field representative for evidence of impacts (i.e. elevated photoionization detector (PID) readings, staining, etc.) and physical properties (i.e., color, grain size, consistency, etc.). Once the soil boring's maximum depth was reached, a 1-inch diameter PVC screen and blank casing was inserted into the boring and grab groundwater samples were taken using a dedicated disposable bailer. Following collection of groundwater samples, the PVC screen and casing were removed from the boring and the bore hole was backfilled with soil cuttings.

Groundwater samples were analyzed for TCL VOCs by EPA Method 8260C and TCL SVOCs by EPA Method 8270D. It was concluded that groundwater in this area of the Site contains residual contamination; however, the analytical results were similar to previous investigation results (Table 6).

1.3.8 Summary of Remaining Contamination

Discrete areas of the Site contain one (1) SVOC (benzo(a)pyrene) at concentrations in excess of Commercial Use SCOs (Figure 7 and Tables 2, 3, 4, 9, and 10). A discrete area to the west of the Site building also contains three other SVOCs (benzo(a)anthracene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene) at concentrations that exceed applicable Commercial Use SCOs (Figure 7 and Tables 2, 3, 4, 9, and 10). No further action was recommended in this area due to the proximity to the Site building and the relatively minor concentration of the analyte. Surface and sub-surface soil samples taken from across the Site identify remaining contamination levels that exceed Unrestricted Use SCOs (Figure 6 and tables 2, 3, 4, 9, and 10).

Discrete areas of groundwater are slightly impacted by VOC concentrations that exceed Class GA drinking water standards, as evidenced by groundwater samples taken from on-Site and off-Site groundwater monitoring wells (Figure 9 and Tables 5 and 6). However, the fact that the Site and all adjacent properties are serviced by a municipal water supply, and that the proposed remedy includes placing a groundwater use restriction on the Site, contact with contaminated groundwater is essentially precluded.

Soil vapor contaminated with VOCs exists at the Site. The concentrations of analytes detected in soil vapor samples were fairly consistent across the majority of the Site (Table 7). Detected concentrations were relatively minor, which likely will limit the mobility and off-Site impact of soil vapor through soil vapor intrusion; however, three of the soil vapor points samples contained elevated concentrations that warrant future evaluation if the existing building is occupied or future buildings are constructed on the site.

1.4 SUMMARY OF REMEDIAL ACTIONS

The Site was remediated in accordance with the NYSDEC-approved Interim Remedial Measure Work Plan (SWRNA, August 2005) and the NYSDEC-approved Interim Remedial Measure-2 Work Plan (SWRNA, June 2007). The findings of the IRMs are summarized in the following reports:

- New York State Environmental Restoration Program (ERP) Interim Remedial Measure, SWRNA, May 2006; and
- New York State Environmental Restoration Program (ERP) Interim Remedial Measure-2, SWRNA, February 2008.

The following is a summary of the Remedial Actions performed at the Site:

1. Excavation of surface soil/fill exceeding Commercial Use SCOs for SVOCs, listed in Table 8, in a discrete area west of the Site building to a depth of 1-foot;
2. Decommissioning and removal of two (2) underground storage tanks near the southwestern corner of the building;
3. Removal of the former fuel dispenser island, supply lines, and associated soil to a depth of 2-feet;
4. Removal of a hydraulic lift and associated hydraulic fluid tank from inside the Site building;
5. Removal of nine (9) 55-gallon drums from inside the Site building;
6. Investigation and removal of a suspected waste oil pipe from inside the Site building;
7. Investigation and cleaning or two (2) floor sumps located inside the Site building;
8. Removal of oil stains from building floor and walls;
9. Removal of an above ground fuel oil storage tank located inside the Site building;
10. Maintenance of a soil cover system consisting of the existing on-Site building and paved areas (Figure 8) to prevent human exposure to remaining contaminated soil/fill remaining at the Site;
11. Decommissioning of all on-Site and off-Site groundwater monitoring wells and soil vapor wells, with the exception of the ones located within the Site building since access could not be obtained.
12. Execution and recording of an Environmental Easement to restrict land use, Site groundwater use, and prevent future exposure to any contamination remaining at the Site; and
13. Development and implementation of a Site Management Plan for long term management of remaining contamination, which includes plans for: (1) Institutional and Engineering Controls, (2) maintenance, and (3) reporting.

Remedial activities were completed at the Site during Interim Remedial Measures (IRMs) completed in 2005 and 2007.

1.4.1 Removal of Contaminated Materials from the Site

A list of the soil cleanup objectives (SCOs) for the primary contaminants of concern (COCs) and applicable land use for this Site is provided in Table 8. A figure showing areas where excavation was performed is shown in Figure 5.

Discrete areas of soil excavation and tank removal activities were conducted during Site remedial activities. As part of the 2005 IRM, two (2) USTs, one 550-gallon and one 275-gallon, were cleaned, removed, and transported off-Site for proper disposal at a permitted facility. Approximately 45-tons of petroleum impacted soil was also removed from the vicinity of the USTs and transported off-Site for proper disposal at a permitted facility.

As part of the 2007 IRM-2, the fuel dispenser island, supply piping, and associated soils were removed and transported off-Site for proper disposal at a permitted facility. The overall excavation was approximately 24-feet by 5-feet with an average depth of 2-feet. Soil was excavated from discrete areas around previous surface soil sample locations SS-1 and SS-2, west of the Site building, and transported off-Site for proper disposal at a permitted facility. Each excavation was approximately 5-feet by 3-feet with an average depth of 1-foot. A hydraulic lift and associated hydraulic fluid tank were removed from inside the Site building and disposed of off-Site at a permitted facility. Laboratory analytical results of soil samples collected during the IRM-2 are summarized on Table 9.

Nine (9) 55-gallon drums were found inside the Site building. The contents of each drum were characterized and the drums, and associated contents, were disposed of at a permitted facility. Two (2) floor sumps were inspected and cleaned, with the contents being containerized and transported off-Site for disposal at a permitted facility. An above ground fuel oil tank was emptied of its contents, approximately 25-gallons of fuel oil, and cleaned. The contents and tank were transported off-Site for proper disposal at a permitted facility.

1.4.2 Site-Related Treatment Systems

No long-term treatment systems were installed as part of the Site remedy. However, if the current on-Site building becomes occupied, or any new buildings are constructed on-Site, it will be required to either have: 1) at a minimum a passive ventilation system built into the foundation/slab design to mitigate soil vapor intrusion, or 2) additional sampling and evaluation of soil vapor, indoor air, and sub-slab vapor will be conducted, in accordance with the New York State Department of Health (NYSDOH) guidance to determine appropriate measures to be taken. If a soil vapor mitigation system is installed, this SMP will be revised to include a description of the mitigation system and the appropriate operation, maintenance, inspection, and reporting requirements.

1.4.3 Remaining Contamination

Sub-surface and surface soils remaining on-Site in discrete areas below the asphalt pavement and along the west side of the property are considered potentially contaminated based on exceedances of Unrestricted Use SCOs (Figure 6) and exceedances of Commercial Use SCOs (Figure 7), as identified by laboratory analytical results of excavation end-point soil samples collected during the IRMs conducted on-Site. Remaining soil contamination exists primarily of SVOCs and metals, with minor amounts of VOCs in one sample. As a result, any excavation that occurs on-Site in the future will need to be conducted in accordance with the Soil Management Plan (Appendix B).

Discrete areas of groundwater are slightly impacted by VOC concentrations that exceed Class GA drinking water standards, as evidenced by groundwater samples taken from on-Site and off-Site groundwater monitoring wells (Figure 9). However, the fact that the Site and all adjacent properties are serviced by a municipal water supply, and that the proposed remedy includes placing a groundwater use restriction on the Site, contact with contaminated groundwater under current conditions is essentially precluded.

Soil vapor contaminated with VOCs exists at the Site. The concentrations of analytes detected in soil vapor samples were fairly consistent across the majority of the Site. The majority of detected analytes were not detected in Site soil or groundwater samples, which likely will limit the mobility and off-Site impact of soil vapor via groundwater migration; however, three of the soil vapor points samples contained elevated concentrations that warrant future evaluation if the existing building is occupied or future buildings are constructed on the site.

2.0 ENGINEERING AND INSTITUTIONAL CONTROL PLAN

2.1 INTRODUCTION

2.1.1 General

Since remaining contaminated soil, groundwater, and soil vapor exists beneath the Site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment. This Engineering and Institutional Control Plan describes the procedures for the implementation and management of all EC/ICs at the Site. The EC/IC Plan is one component of the SMP and is subject to revision by NYSDEC.

2.1.2 Purpose

This plan provides:

- A description of all EC/ICs on the Site;
- The basic implementation and intended role of each EC/IC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the features to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of EC/ICs, such as the implementation of the Soil Management Plan for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the Site; and
- Any other provisions necessary to identify or establish methods for implementing the EC/ICs required by the Site remedy, as determined by the NYSDEC.

2.2 ENGINEERING CONTROLS

2.2.1 Engineering Control Systems

2.2.1.1 Soil Cover

Exposure to remaining contamination in soil/fill at the Site is prevented by the soil cover system placed over the Site. This cover system is comprised of a minimum of 12-inches of clean soil underlain by a demarcation layer, asphalt pavement, and concrete building slab (Figure 8). The Soil Management Plan that appears in Appendix B outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed.

The soil cover system for the Site will need to meet the following criteria:

- The Grantor, or its successors in title, must maintain the cover system of 12-inches of clean soil underlain by a demarcation layer, or 6-inches of asphalt pavement, or 6-inches of concrete building slabs;
- Any on-Site soil that is used to create a future soil cover system will meet the Commercial Use SCOs identified in 6NYCRR Part 375-6.8(b) for protection of human health; and
- Any off-Site soil that is used for the soil cover system will meet the lower of the SCOs for Commercial Use, or the protection of groundwater as identified in 6NYCRR Part 375-6.8(b).

The maintenance of the soil cover system includes the following requirements, which apply to development of the Site and future activities at the Site that may disturb the underlying soils:

- Any proposed soil excavation on the Site requires prior notification, and prior approval by NYSDEC in accordance with this Site Management Plan approved by NYSDEC for the Site. The excavated soil must be managed, characterized, and properly disposed of in accordance with applicable NYSDEC regulations and directives; and

- Any area of soil excavation below the barrier layer that is to be returned to vegetated soil (i.e., not concrete, asphalt or buildings) must be backfilled with a minimum of one (1) foot of clean fill underlain by a demarcation layer in accordance with 6 NYCRR Part 375-3.8(e)(4)(iii).

Procedures for monitoring the system are included in the Monitoring Plan (Section 3 of this SMP). Procedures for inspecting and maintaining the soil cover system are documented in the Operation and Maintenance Plan included in Section 4 of this SMP. The Monitoring Plan also addresses severe condition inspections in the event that a severe condition, which may affect controls at the Site, occurs.

2.2.1.2 Soil Vapor Mitigation System

If the current on-Site building becomes occupied, or if new buildings are constructed at the Site, it will be necessary to either 1) design and install a soil vapor mitigation system that will preclude soil vapor intrusion in on-Site buildings or 2) conduct an evaluation of soil vapor, indoor air, and sub-slab vapor in accordance with NYSDOH guidance to determine appropriate measures to be taken. These systems will be built into the foundation and/or sub-slab of the building, if required.

Procedures for monitoring the system will need to be included in the Monitoring Plan (Section 3 of this SMP) following installation of a soil vapor mitigation system in the existing building, or construction of new on-Site buildings. Procedures for operating and maintaining the soil vapor mitigation system will need to be included in the Operation and Maintenance Plan (Section 4 of this SMP) following installation of the system in the existing Site building, or construction of new on-Site buildings. The Monitoring Plan will also need to be updated to address severe condition inspections in the event that a severe condition, which may affect controls at the Site, occurs.

2.2.2 Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

2.2.2.1 Composite Cover System

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity, or until such time NYSDEC confirms in writing that such inspections are no longer warranted.

2.2.2.2 Soil Vapor Mitigation System

The soil vapor mitigation system, which may be installed in the existing on-Site building if it becomes occupied or as part of any future buildings constructed on-Site, will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the soil vapor mitigation system is no longer required, a proposal to discontinue the system will be submitted by the property owner to the NYSDEC and NYSDOH.

2.3 INSTITUTIONAL CONTROLS

A series of Institutional Controls is required by the Decision Document to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Site to Commercial or Industrial Uses only. Adherence to these Institutional Controls on the Site is required by the Environmental Easement and will be implemented under this Site Management Plan. These Institutional Controls are:

- Prohibition of the Site from ever being used for purposes other than a commercial use without expressed written waiver of such prohibition by the Department, or if at such time the Department no longer exists, any New York State Department, Bureau, or other entity replacing the Department;
- Prohibition of the use of groundwater underlying the Site without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless user first obtains permission to do so from the Department, or if at such time the Department no longer exists, any New York State Department, Bureau, or other entity replacing the Department;

- Requirement to investigate and mitigate, if necessary, the potential source in the area of the Bay 3 Sump if the building is demolished/removed in the future;
- Development and implementation of a Site Management Plan (SMP) specifying the use of soil cover systems, and management of soils that may be excavated at the Site during future development;
- The property owner will provide a periodic certification to the NYSDEC, prepared by a professional engineer or such other qualified environmental professional acceptable to the NYSDEC, until the NYSDEC notifies the property owner in writing that this certification is no longer needed. This submittal will contain certification that the engineering and institutional controls are still in place, that the NYSDEC is allowed access to the Site, and that nothing has occurred that will impair the ability of the control to protect the public health or the environment, or constitute a violation or failure to comply with the SMP;
- Compliance with the Environmental Easement and this SMP by the Grantor and the Grantor's successors and assigns;
- All Engineering Controls must be operated and maintained as specified in this SMP;
- All Engineering Controls on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP; and
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in this SMP.

Institutional Controls identified in the Environmental Easement may not be discontinued without an amendment to, or extinguishment of, the Environmental Easement.

The Site has a series of Institutional Controls in the form of Site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for Commercial or Industrial Uses provided that the long-term Engineering and Institutional Controls included in this SMP are employed;
- The property may not be used for a higher level of use, such as Unrestricted, Residential, or Restricted Residential Uses without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for the intended use;
- The potential for vapor intrusion must be evaluated if the current building on-Site becomes occupied or if any buildings are developed on-Site, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens and farming on the property are prohibited; and
- 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.

2.3.1 Soil Management Plan

The Site has been remediated for restricted Commercial or Industrial Use. Any future intrusive work that will penetrate the soil cover or cap, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system will be performed in compliance with the Soil Management Plan that is attached as Appendix B to this SMP. Any work conducted pursuant to the Soil Management Plan 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 and CAMP are attached as Appendix C to this SMP that is in current compliance with DER-10, and 29 CFR 1910, 29 CFR 1926, 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 with the notification provided in Section A-1 of the Soil Management Plan. Any intrusive construction work will be performed in compliance with the Soil Management Plan, HASP, and CAMP, and will be included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan (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 excavation de-water, control of runoff from open excavations into remaining contamination, and for structures that may be affected by excavations (such as building foundations and bridge footings). The Site owner will ensure that Site development activities will not interfere with, or otherwise impair or compromise, the engineering controls described in this SMP.

2.3.2 Soil Vapor Intrusion Evaluation

Prior to occupancy of the current on-Site building, or the construction of any enclosed structures on-Site, a soil vapor intrusion (SVI) evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the structure. Alternatively, the current on-Site building may be retrofitted with an SVI mitigation system, or an SVI mitigation system may be installed as an element of the building foundation of future buildings built on-Site, without first conducting an investigation.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan will be developed and submitted to the NYSDEC and NYSDOH for approval. This work plan will be developed in accordance with the most recent NYSDOH "Guidance for Evaluating Vapor Intrusion in the State of New York". Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

Preliminary (unvalidated) SVI sampling data, if collected instead of installing a SVI system, would be collected prior to occupancy of the structure. Sampling data would be forwarded to the NYSDEC and NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation. Validated SVI data will be transmitted to the property owner within 30 days of validation.

SVI sampling results, evaluations, and follow-up actions will also be summarized in the next Periodic Review Report.

2.4 INSPECTIONS AND NOTIFICATIONS

2.4.1 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:

- Whether Engineering Controls continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If Site records are complete and up to date; and

- Changes, or needed changes, to the remedial or monitoring system.

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).

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the EC/ICs implemented at the Site by a qualified environmental professional as determined by NYSDEC.

2.4.2 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 State Assistance Contract (SAC) #C302761, 6NYCRR Part 375, and/or Environmental Conservation Law.
- 7-day advance notice of any proposed ground-intrusive activities pursuant to the Soil Management Plan;
- Notice within 48-hours of any damage or defect to the foundations structures that reduces or has the potential to reduce the effectiveness of other Engineering Controls and likewise any action to be taken to mitigate the damage or defect;
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of Engineering Controls in place at the Site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public; and
- 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 and shall describe and document actions taken to restore the effectiveness of the ECs.

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 State Assistance Contract (SAC) #C302761, and all approved work plans and reports, including this SMP; and
- 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.

2.5 CONTINGENCY PLAN

Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions.

2.5.1 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 below. For emergencies, appropriate emergency response personnel should be contacted. Prompt contact should also be made to GHD, the environmental consultant. These emergency contact lists must be maintained in an easily accessible location at the Site.

Table 11: Emergency Contact Numbers

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

Table 12: Other Contact Numbers

GHD Consulting Services Inc.	(315) 679-5800
Madison County	(315) 366-2201

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

2.5.2 Map and Directions to Nearest Health Facility

Site Location: 47 Utica Street, Hamilton, New York

Nearest Hospital Name: Community Memorial Hospital

Hospital Location: New York State Route 12B (Broad Street), Hamilton, New York

Hospital Telephone: (315) 824-1100

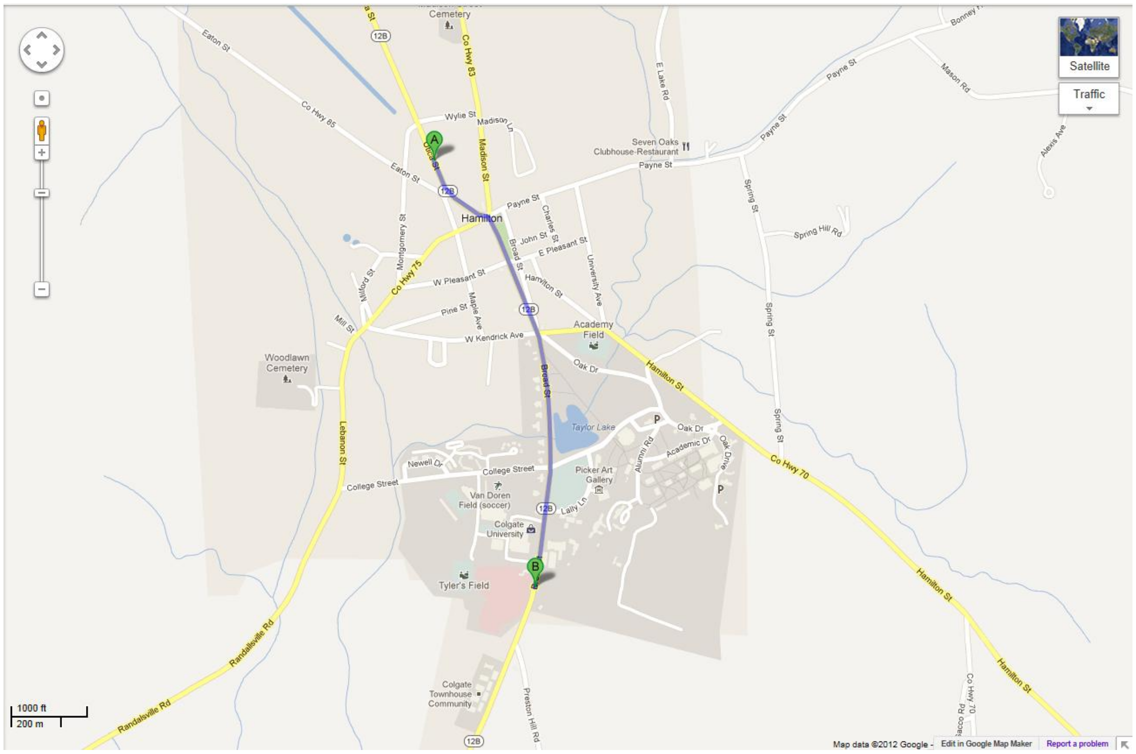
Directions to the Hospital:

1. Head SOUTHEAST on UTICA STREET toward Eaton Utica Square
2. Slight RIGHT onto BROAD STREET
3. Community Memorial Hospital will be on the RIGHT

Total Distance: 1.2 miles

Total Estimated Time: 2 minutes

Figure 10: Map Showing Route from the Site to the Hospital:



2.5.3 Response Procedures

As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency. The emergency telephone number list is found at the beginning of this Contingency Plan (Table 11). The list will also be posted prominently at the Site and made readily available to all personnel at all times.

3.0 SITE MONITORING PLAN

3.1 INTRODUCTION

3.1.1 General

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected Site media identified below. Monitoring of other Engineering Controls is described in Chapter 4, Operation, Monitoring and Maintenance Plan. This Monitoring Plan may only be revised with the approval of NYSDEC.

3.1.2 Purpose and Schedule

This Monitoring Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil;
- Assessing achievement of the remedial performance criteria;
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, this Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (e.g., well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;
- Inspection and maintenance requirements for monitoring wells;

- Monitoring well decommissioning procedures; and
- Annual inspection and periodic certification.

Monitoring of the performance of the remedy and overall reduction in contamination on-Site was conducted until March 2009 and the on-Site and off-Site groundwater monitoring wells and soil vapor wells were decommissioned in March 2012, in accordance with CP-43 – Groundwater Monitoring Well Decommissioning Policy (NYSDEC, November 2009) and with NYSDEC approval. The inspection schedule is summarized in Table 13 and outlined in detail in Sections 3.2 and 3.3 below.

Table 13: Inspection Schedule

Monitoring Program	**Frequency***	**Matrix**	**Analysis**
Soil Cover System	Annual	Soil	Visual Inspection
Soil Vapor Mitigation System[1]	To Be Determined[1]	Soil Vapor	Visual Inspection
Groundwater Monitoring[2]	To Be Determined	Groundwater	To Be Determined

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

[1] If the current Site building becomes occupied, or if buildings are constructed on-Site in the future, it will be necessary to either: 1) design and install a soil vapor mitigation system that will preclude soil vapor intrusion in Site buildings or 2) conduct an evaluation of soil vapor, indoor air, and sub-slab vapor in accordance with NYSDOH guidance to determine appropriate measures to be taken. If a soil vapor mitigation system is installed, the monitoring requirements will be established at that time with the approval of the NYSDEC and NYSDOH.

[2.] Currently there are no groundwater monitoring wells located on-Site or off-Site; however, it may be required by the NYSDEC to install, develop, and sample groundwater monitoring wells in the future in order to assess the performance and effectiveness of the remedy.

3.2 SOIL COVER SYSTEM MONITORING

The soil cover system will be inspected annually, following any Site work that potentially affects the soil cover system, and following any necessary modifications to the soil cover system that arise from routine maintenance or following Site work. No samples of the cover material are required during the annual monitoring. During Site work or modifications to the soil cover system, soil sampling requirements are outlined in Appendix B – Soil Management Plan.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the soil cover system.

3.3 MEDIA MONITORING PROGRAM

There are currently no media monitoring requirements under the Site remedy. On-Site and off-Site groundwater monitoring wells and soil vapor wells were decommissioned in accordance with the NYSDEC's CP-43 – Groundwater Monitoring Well Decommissioning Policy (NYSDEC, November 2009) in March 2012. The NYSDEC may require the installation, development, and sampling of groundwater monitoring wells on-Site in the future in order to assess the performance and effectiveness of the remedy. A groundwater sampling plan, including sampling frequency, methods, and analytical requirements, will be developed with concurrence from the NYSDEC if groundwater monitoring wells are installed, and this SMP will be revised accordingly.

3.4 SITE-WIDE INSPECTION

Site-wide inspections will be performed on a regular schedule at a minimum of once a year. Site-wide inspections will also be performed after all severe weather conditions that may affect Engineering Controls or monitoring devices. During these inspections, an inspection form will be completed (Appendix D). The form will compile sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General Site conditions at the time of the inspection;
- The Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and
- Confirm that Site records are up to date.

3.5 MONITORING QUALITY ASSURANCE/QUALITY CONTROL

Any sampling and analyses required by the Soil Management Plan, and the future groundwater sampling plan, if required, will be performed in accordance with the requirements of the generic Quality Assurance Project Plan (QAPP) presented in (Appendix E). Main Components of the QAPP include:

- QA/QC Objectives for Data Measurement;
- Sampling Program:
    - Sample containers will be properly washed, decontaminated, and appropriate preservative will be added (if applicable) prior to their use by the analytical laboratory. Containers with preservative will be tagged as such.
    - Sample holding times will be in accordance with the NYSDEC ASP requirements.
    - Field QC samples (e.g., trip blanks, coded field duplicates, and matrix spike/matrix spike duplicates) will be collected as necessary.
- Sample Tracking and Custody;
- Calibration Procedures:

    - All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.

  - The laboratory will follow all calibration procedures and schedules as specified in USEPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.

- Analytical Procedures;
- Preparation of a Data Usability Summary Report (DUSR), which will present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method.
- Internal QC and Checks;
- QA Performance and System Audits;
- Preventative Maintenance Procedures and Schedules;
- Corrective Action Measures.

3.6 MONITORING REPORTING REQUIREMENTS

Forms and any other information generated during regular inspections will be kept on file by the property owner. 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, as specified in the Reporting Plan of this SMP.

Any monitoring results from activities conducted under the Soil Management Plan or groundwater sampling plan, if required, will be reported to NYSDEC on a periodic basis in the Periodic Review Report. A letter report will also be prepared, subsequent to each event. The letter report will include, at a minimum:

- Date of event;

- Personnel conducting activities;
- Description of the activities performed;
- Type of samples collected (e.g., groundwater, sub-slab vapor, indoor air, outdoor air, etc.);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, etc.);
- Sampling results in comparison to appropriate standards/criteria;
- A figure illustrating sample type and sampling locations;
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format);
- Any observations, conclusions, or recommendations; and
- A determination as to whether groundwater conditions have changed since the last reporting event.

Data will be reported in hard copy or digital format as determined by NYSDEC. A summary of the monitoring program deliverables are summarized in Table 14 below.

Table 14: Schedule of Inspection Reports

Task	Reporting Frequency*
Soil Cover System Inspection	Annual Periodic Review Report
Soil Vapor Mitigation System[1]	To Be Determined[1]
Groundwater Monitoring Wells[2]	To Be Determined

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC

[1] If the current Site building becomes occupied, or if buildings are constructed on-Site in the future, it will be necessary to either: 1) design and install a soil vapor mitigation system that will preclude soil vapor intrusion in Site buildings or; 2) conduct an evaluation of soil vapor, indoor air, and sub-slab vapor in accordance with NYSDOH guidance to determine appropriate measures to be taken. If a soil vapor

mitigation system is installed, the monitoring requirements will be established at that time with the approval of the NYSDEC and NYSDOH.

[2.] Currently there are no groundwater monitoring wells located on-Site or off-Site; however, it may be required by the NYSDEC to install, develop, and sample groundwater monitoring wells in the future in order to assess the performance and effectiveness of the remedy.

4.0 OPERATION AND MAINTENANCE PLAN

4.1 INTRODUCTION

There are currently no on-Site buildings that are occupied. As a result, there are no mechanical components of the remedy that need to be operated or maintained. However, if current on-Site buildings become occupied or future buildings are constructed on-Site it will be required to either 1) design a soil vapor mitigation system that will preclude soil vapor intrusion or 2) conduct an evaluation of soil vapor, indoor air, and sub-slab vapor in accordance with NYSDOH guidance to determine appropriate measures to be taken. If a soil vapor mitigation system is implemented, it may require the generation of an operation and maintenance plan to describe the measures necessary to operate, monitor, and maintain the mechanical components of the remedy selected for the Site. Future systems that may be installed will require revisions to this SMP including a system specific Operation and Maintenance Plan. The Operation and Maintenance Plan would need to include:

- The steps necessary to allow individuals unfamiliar with the Site to operate and maintain the systems;
- An operation and maintenance contingency plan; and
- Will be updated periodically to reflect changes in Site conditions or the manner in which the systems are operated and maintained.

Information on non-mechanical Engineering Controls (i.e. soil cover system) is provided in Section 3 - Engineering and Institutional Control Plan. A copy of this Operation and Maintenance Plan, along with the complete SMP, will be kept on-file by the property owner. This Operation and Maintenance Plan is not to be used as a stand-alone document, but as a component document of the SMP.

5.0 INSPECTIONS, REPORTING AND CERTIFICATIONS

5.1 SITE INSPECTIONS

5.1.1 Inspection Frequency

All inspections will be conducted at the frequency specified in the schedules provided in Section 3 Monitoring Plan and Section 4 Operation and Maintenance Plan of this SMP. At a minimum, a Site-wide inspection will be conducted annually. Inspections of remedial components will also be conducted when a breakdown of any treatment system component has occurred or whenever a severe condition has taken place, such as an erosion or flooding event that may affect the ECs.

5.1.2 Inspection Forms, Sampling Data, and Maintenance Reports

All inspections and monitoring events will be recorded on the appropriate forms for their respective system which are contained in Appendix D. Additionally, a general Site-wide inspection form will be completed during the Site-wide inspection (see Appendix D). These forms are subject to NYSDEC revision.

All applicable inspection forms and other records, including all media sampling data and system maintenance reports, generated for the Site during the reporting period will be provided in electronic format in the Periodic Review Report.

5.1.3 Evaluation of Records and Reporting

The results of the inspection and Site monitoring data will be evaluated as part of the EC/IC certification to confirm that the:

- EC/ICs are in place, are performing properly, and remain effective;
- The Monitoring Plan is being implemented;
- Operation and maintenance activities are being conducted properly; and, based on the above items,
- The Site remedy continues to be protective of public health and the environment and is performing as designed in the RAWP and FER.

5.2 CERTIFICATION OF ENGINEERING AND INSTITUTIONAL CONTROLS

After the last inspection of the reporting period, a Professional Engineer licensed to practice in New York State will prepare the following certifications:

- No new information has come to the Site owners attention, including groundwater monitoring data from wells located at the Site boundary, to indicate that the assumptions made in the Qualitative Environmental Assessment (QEA) of off-Site contamination are no longer valid; and
- Every five (5) years, that the assumptions in the QEA remain valid.

For each institutional or engineering control identified for the Site, a Professional Engineer licensed to practice in New York State will also certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;
- 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 Department 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 Environmental Easement;

- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program; and
- The information presented in this report is accurate and complete.

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

- 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): [I have been authorized and designated by all Site owners to sign this certification] for the Site.

5.3 PERIODIC REVIEW REPORT

A Periodic Review Report will be submitted to the Department every year, beginning eighteen months after the No Further Action Letter 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 A (Metes and Bounds). The report will be prepared in accordance with NYSDEC DER-10 and submitted within 45 days of the end of each certification period. Media sampling results will also incorporated into the Periodic Review Report. The report will include:

- Identification, assessment, and certification of all ECs/ICs required by the remedy for the Site;
- Results of the required annual Site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the Site during the reporting period in electronic format;

- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions;
- Data summary tables and graphical representations of contaminants of concern by media (groundwater, soil vapor), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends;
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;
- A Site evaluation, which includes the following:
  - The compliance of the remedy with the requirements of the Site-specific RAWP, ROD or Decision Document;
  - The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;
  - Any new conclusions or observations regarding Site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
  - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
  - 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 Regional Office in which the Site is located, and in electronic format to NYSDEC Central Office, Regional Office and the NYSDOH Bureau of Environmental Exposure Investigation.

5.4 CORRECTIVE MEASURES 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 or engineering control, 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.

FIGURES

CONTOUR INTERVAL: 20 FEET

MAP TAKEN FROM: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE
HAMILTON (1943, PHOTOINSPECTED 1976)
(www.nysgis.state.ny.us/quads/usgsdrg.htm)

QUADRANGLE LOCATION

0 1,000 2,000 3,000 4,000'

SCALE 1"=2,000' AT ORIGINAL SIZE

N

GHD

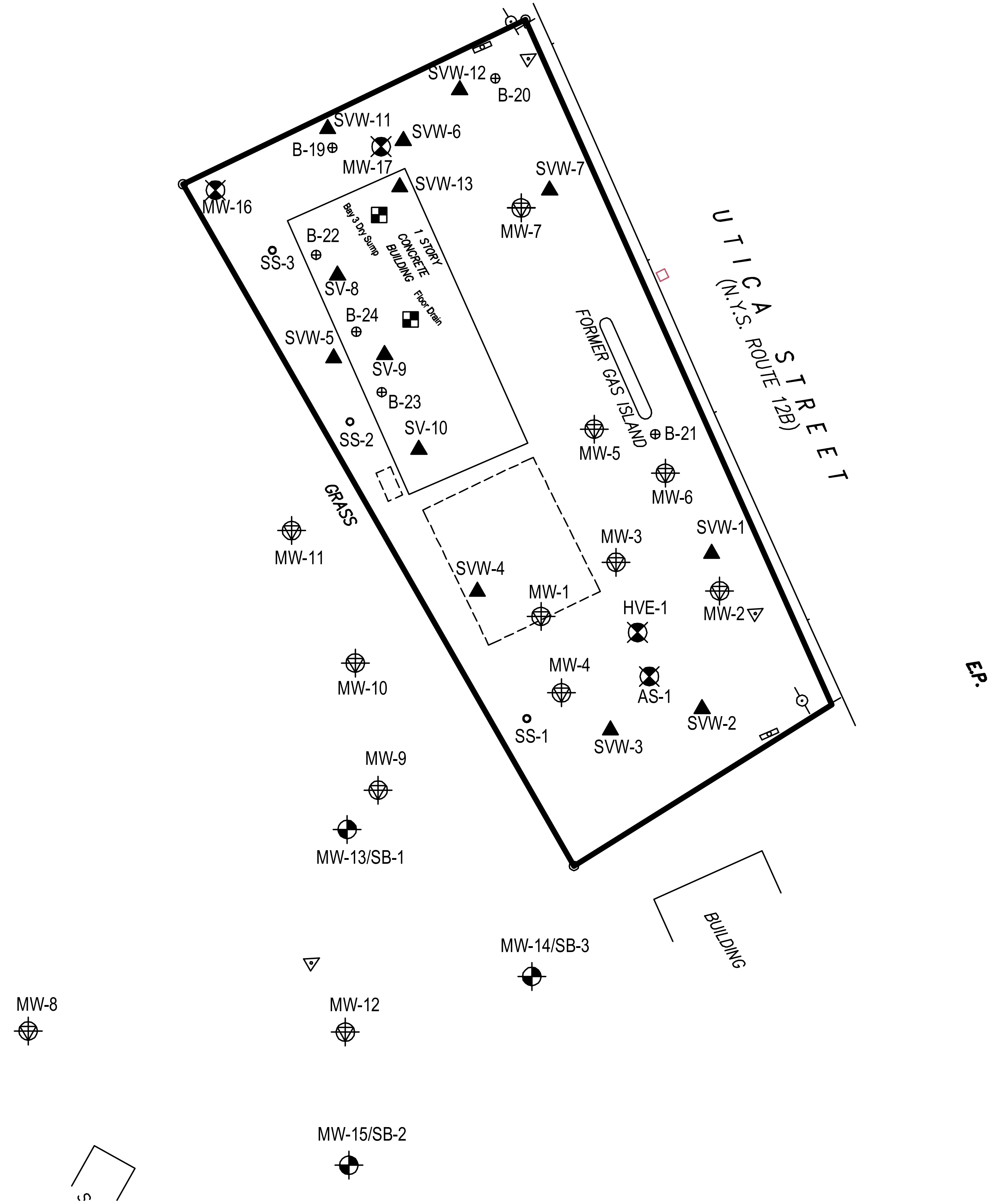
Madison County
47 Utica Street
ERP Site #E727011
Site Location Map

Job Number	86-12051
Revision	A
Date	07.30.13

Figure 1

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com

Plot Date: 26 August 2013 - 10:20 AM Cad File No: N:\US\Syracuse\Projects\86\12051\Environment.Folder.Files.7-11-2012\SMP\Figures\86-12051-D1.cadd.dwg



LEGEND:

- GROUNDWATER MONITORING WELL (2006)
- GROUNDWATER MONITORING WELL (2002)
- SOIL VAPOR MONITORING WELL (2006)
- SOIL BORING (2006)
- SURFACE SOIL SAMPLE (2006)
- FLOOR DRAIN AND DRY SUMP SAMPLE
- LOCATION OF FORMER USTs (APPROXIMATE)
- SITE BOUNDARY (APPROXIMATE)

MONITORING WELL LOCATIONS 2, 3, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, HVE-1 & AS-1, & ALL SOIL VAPOR WELL LOCATIONS WERE SURVEYED (BRYANT, 2006). ALL OTHER SAMPLE LOCATIONS ARE APPROXIMATE.

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

CLIENTS | PEOPLE | PERFORMANCE

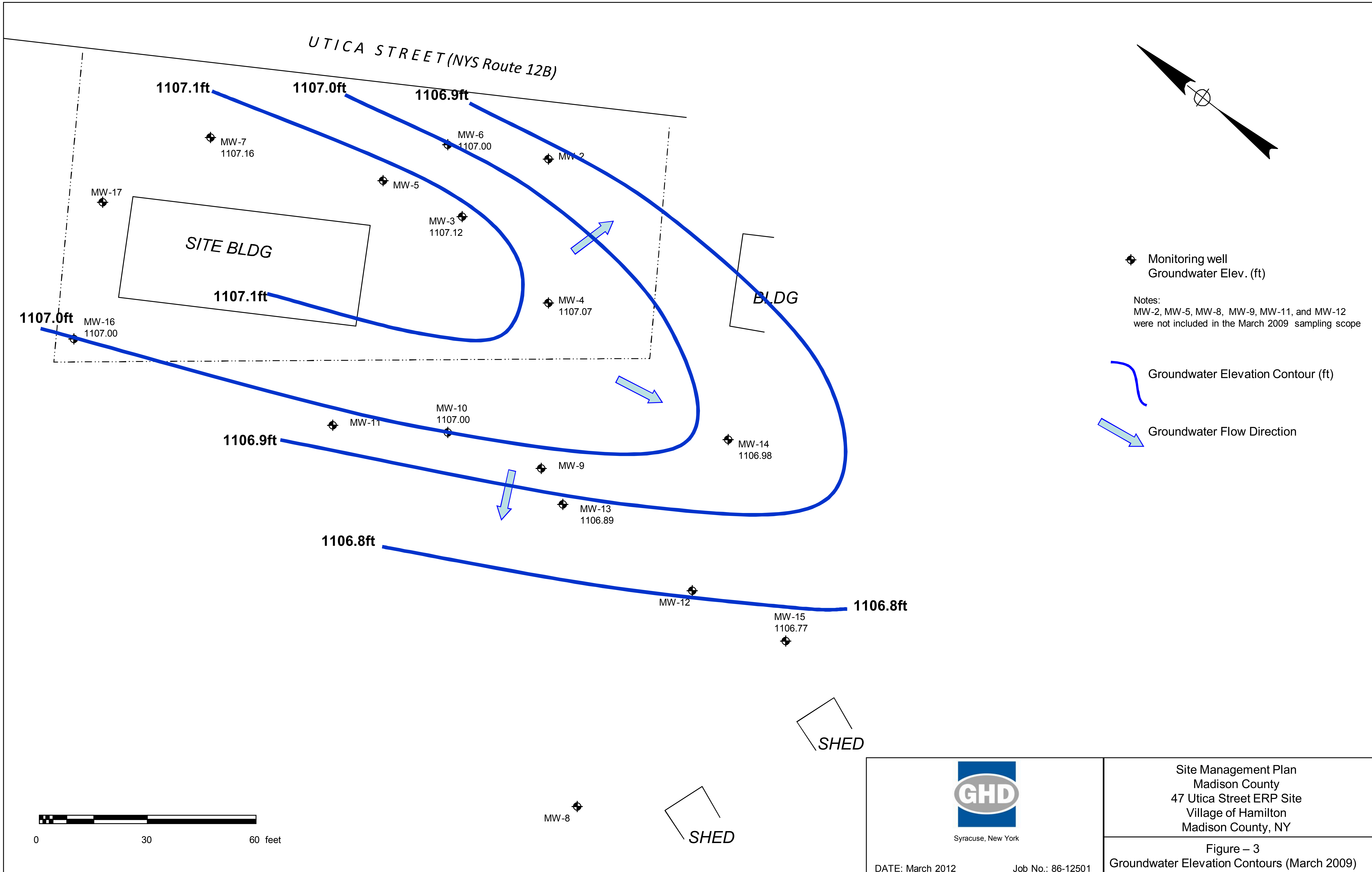
Madison County
47 Utica Street
ERP Site # E727011
Site Layout

Job Number | 86-12051
Revision | A
Date | 07.30.13

Figure 2

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 26 August 2013 - 10:21 AM Cad File No: N:\US\Syracuse\Projects\86\12051\Environment.Folder.Files.7-11-2012\SMP\Figures\86-12051-D2.cadd.dwg

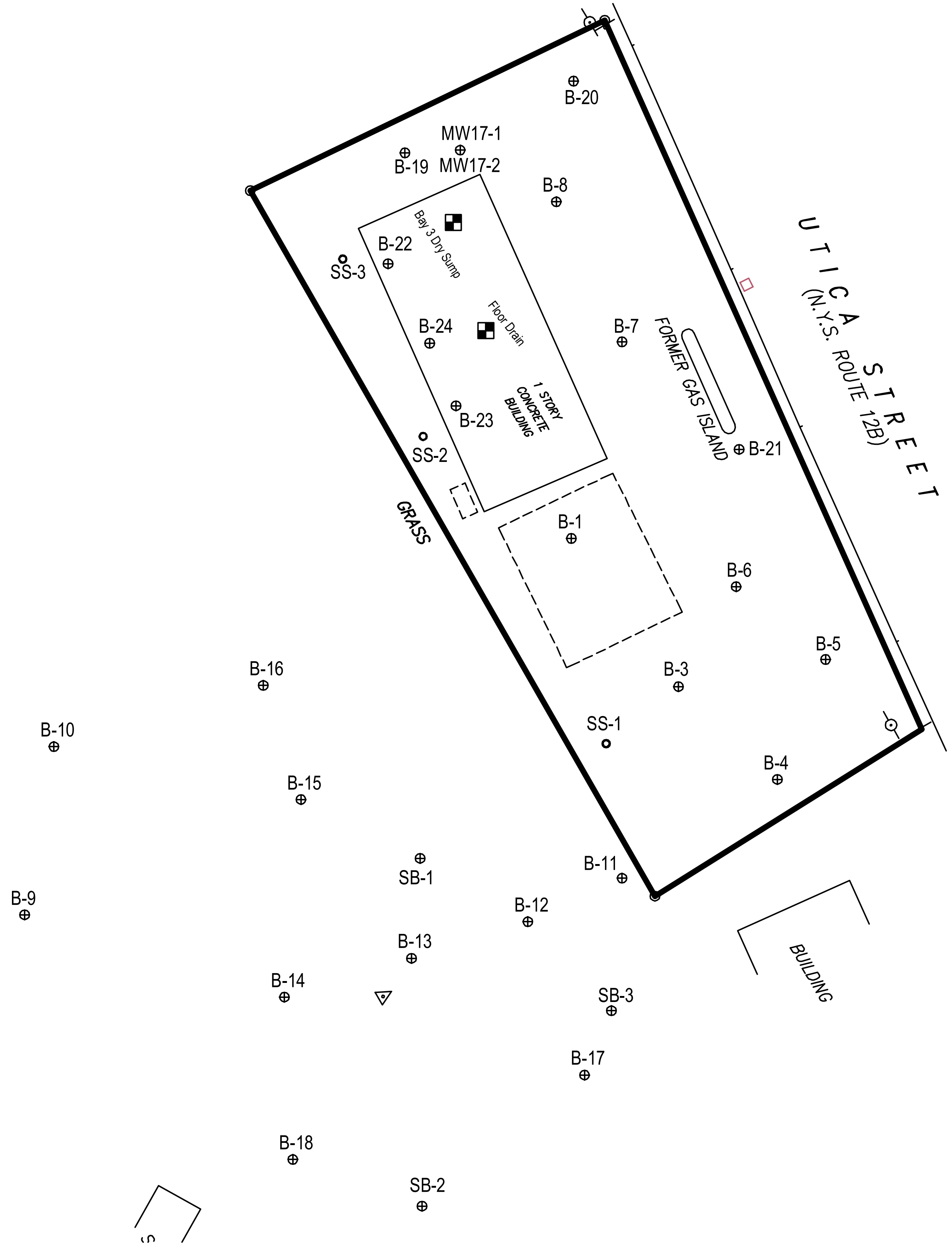


GHD
Syracuse, New York

DATE: March 2012 Job No.: 86-12501

Site Management Plan
Madison County
47 Utica Street ERP Site
Village of Hamilton
Madison County, NY

Figure – 3
Groundwater Elevation Contours (March 2009)



LEGEND:

- SOIL BORING SAMPLE (APPROXIMATE)
- SURFACE SOIL SAMPLE (APPROXIMATE)
- LOCATION OF FORMER USTs (APPROXIMATE)
- PROPERTY BOUNDARY (APPROXIMATE)

SOIL SAMPLES B-1 THROUGH B-17 COLLECTED BY NATURE'S WAY IN 2002.
SOIL SAMPLES SB-1 THROUGH SB-3, B-19 THROUGH B-24, SS-1 THROUGH SS-3, AND MW17-1 AND MW17-2 COLLECTED BY SWRNA IN 2006, 2007, AND 2008.
EXCAVATION END-POINT SOIL SAMPLES ARE SHOWN ON FIGURE 5.

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

GHD

CLIENTS | PEOPLE | PERFORMANCE

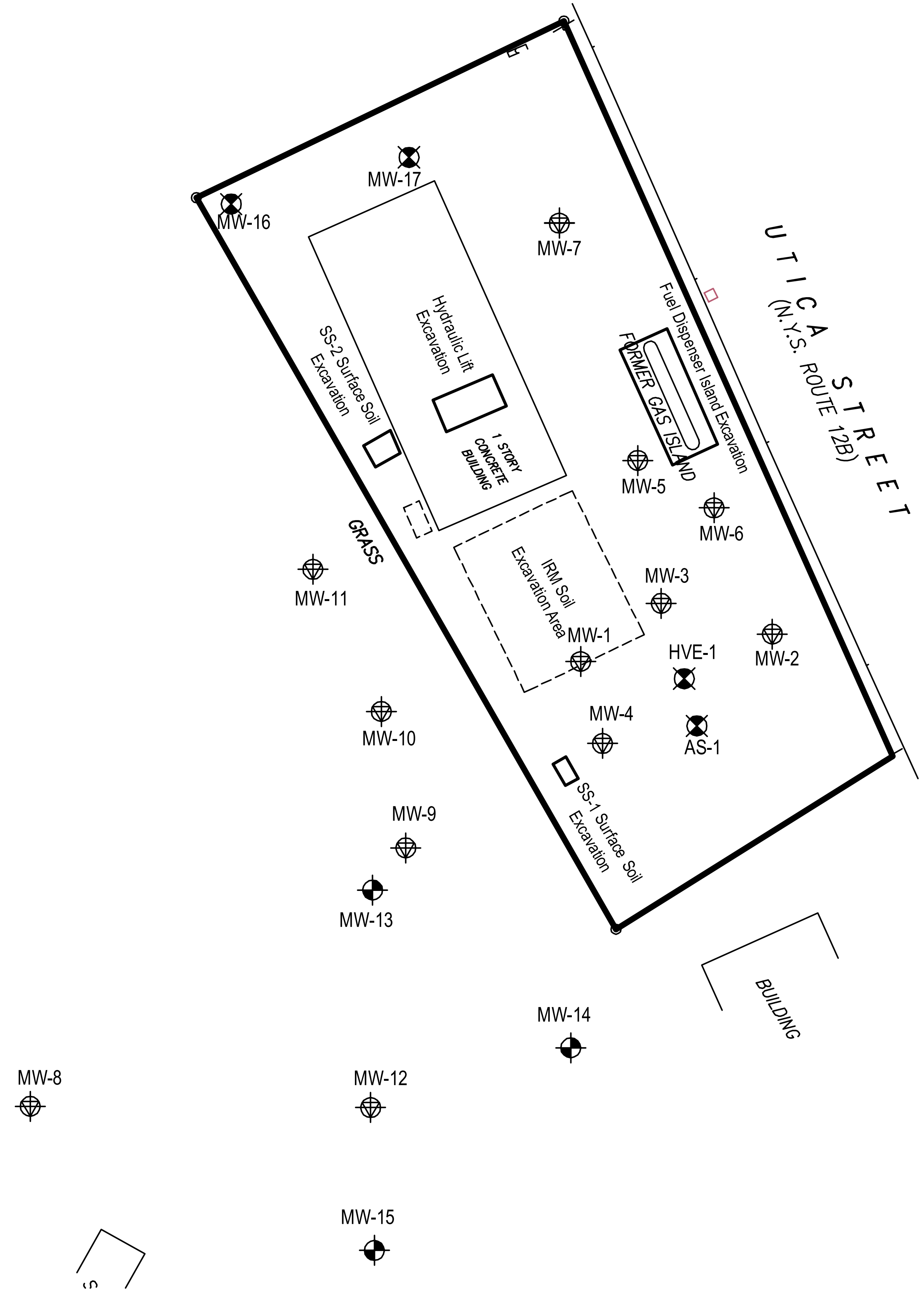
Madison County
47 Utica Street
ERP Site # E727011
Soil Sample Locations

Job Number	86-12051
Revision	A
Date	07.30.13

Figure 4

One Remington Park Drive, Cazenovia NY 13035 USA **T** 1 315 679 5800 **F** 1 315 679 5853 **E** cazmail@ghd.com **W** www.ghd.com

Plot Date: 26 August 2013 - 10:24 AM Cad File No: N:\US\Syracuse\Projects\86\12051\Environment.Folder.Files.7-11-2012\SMP\Figures\86-12051-D4.cadd.dwg



LEGEND:

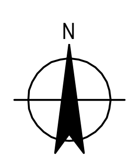
GROUNDWATER MONITORING WELL (2006)

GROUNDWATER MONITORING WELL (2002)

LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)

AREA OF SOIL EXCAVATION (APPROXIMATE)

PROPERTY BOUNDARY (APPROXIMATE)



0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

CLIENTS | PEOPLE | PERFORMANCE

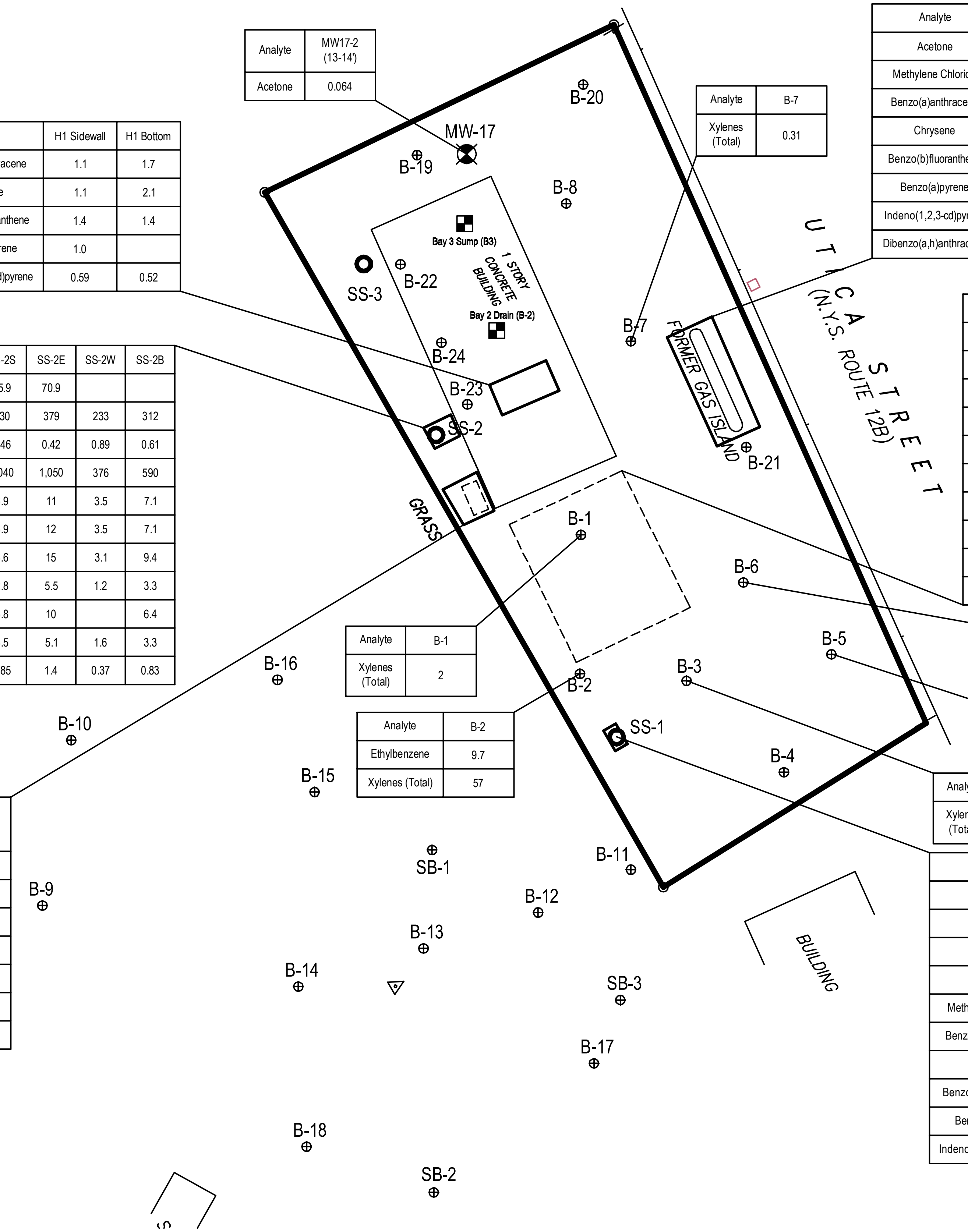
Madison County
47 Utica Street
ERP Site # E727011
Extent of Remedial Excavation

Job Number	86-12051
Revision	A
Date	07.30.13

Figure 5

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 26 August 2013 - 10:25 AM Cad File No: N:\US\Syracuse\Projects\86\12051\Environment.Folder.Files.7-11-2012\SMP\Figures\86-12051-D5.cadd.dwg



Analyte	MW17-2 (13-14')
Acetone	0.064

Analyte	H1 Sidewall	H1 Bottom
Benzo(a)anthracene	1.1	1.7
Chrysene	1.1	2.1
Benzo(b)fluoranthene	1.4	1.4
Benzo(a)pyrene	1.0	
Indeno(1,2,3-cd)pyrene	0.59	0.52

Analyte	SS-2N	SS-2S	SS-2E	SS-2W	SS-2B
Copper	56.8	65.9	70.9		
Lead	337	530	379	233	312
Mercury	0.5	0.46	0.42	0.89	0.61
Zinc	686	1,040	1,050	376	590
Benzo(a)anthracene	7.1	6.9	11	3.5	7.1
Chrysene	6.7	6.9	12	3.5	7.1
Benzo(b)fluoranthene	6.8	6.6	15	3.1	9.4
Benzo(k)fluoranthene	2.6	2.8	5.5	1.2	3.3
Benzo(a)pyrene	5.6	5.8	10		6.4
Indeno(1,2,3-cd)pyrene	3.7	3.5	5.1	1.6	3.3
Dibenzo(a,h)anthracene	0.93	0.85	1.4	0.37	0.83

Analyte	B-7
Xylenes (Total)	0.31

Analyte	PI-1N	PI-2E	PI-3W	PI-4S
Acetone	0.18	0.2		0.16
Methylene Chloride	0.065		0.059	0.057
Benzo(a)anthracene		1.3		
Chrysene		1.2		
Benzo(b)fluoranthene		1.4		
Benzo(a)pyrene		1.1		
Indeno(1,2,3-cd)pyrene		1.3		
Dibenzo(a,h)anthracene		0.36		

Analyte	WW-1	NW-1	Floor-2
Benzo(a)anthracene	1.7	1.3	
Chrysene	1.8	1.2	
Benzo(b)fluoranthene	1.8	1.2	
Benzo(a)pyrene	1.5	1.1	
Indeno(1,2,3-cd)pyrene	1.3	0.99	
Dibenzo(a,h)anthracene	0.39		
m,p-Xylene			3.4
n-Propylbenzene			5
1,2,4-Trimethylbenzene			10
Lead	315	127	

Analyte	B-1
Xylenes (Total)	2

Analyte	B-6
Xylenes (Total)	1.5

Analyte	B-2
Ethylbenzene	9.7
Xylenes (Total)	57

Analyte	B-5
Ethylbenzene	0.24

Analyte	B-3
Xylenes (Total)	1

Analyte	Soil End Point
Benzo(a)anthracene	2.5
Chrysene	2.5
Benzo(b)fluoranthene	2.6
Benzo(k)fluoranthene	1.1
Benzo(a)pyrene	2.3
Indeno(1,2,3-cd)pyrene	1.5
Dibenzo(a,h)anthracene	0.4

Analyte	SS-1N	SS-1S	SS-1E	SS-1W	SS-1B
Lead	67.9	171	82.8	267	70.2
Mercury				0.25	
Zinc	109	142	110	279	124
Acetone	0.19				0.16
Methylene Chloride	0.053	0.082	0.068	0.13	0.15
Benzo(a)anthracene				1.1	
Chrysene			1	1.1	
Benzo(b)fluoranthene			1.4	1.7	
Benzo(a)pyrene				1.1	
Indeno(1,2,3-cd)pyrene			0.61	0.68	

LEGEND:

- LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)
- AREA OF IRM SOIL EXCAVATION (APPROXIMATE)
- SURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)
- SUBSURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:
1. TEXT BOXES INDICATE SOIL BORING ANALYTICAL RESULTS THAT EXCEEDED UNRESTRICTED USE SCOs. ASSUMED REMEDIAL ACTION TO ACHIEVE THE RESTORATION TO PRE-DISPOSAL OR UNRESTRICTED CONDITIONS ALTERNATIVE WOULD ENTAIL REMOVAL OF THE BUILDING AND SLAB; EXCAVATION OF SOILS ACROSS THE SITE TO A DEPTH OF FIVE (5) FEET; AND IMPLEMENTATION OF A GROUNDWATER IN-SITU TREATMENT TO ACHIEVE NEW YORK STATE GROUNDWATER STANDARDS.
2. ALL RESULTS ARE REPORTED AS mg/kg (PARTS PER MILLION)
3. ONLY ANALYTES THAT EXCEEDED UNRESTRICTED USE SCOs ARE INCLUDED HERE. FOR A COMPLETE LIST OF ANALYTICAL RESULTS SEE TABLES.
4. BLANK CELLS INDICATE ANALYTE WAS NOT DETECTED ABOVE UNRESTRICTED USE SCOs.
5. END-POINT SOIL SAMPLES WW-1 AND NW-1 TAKEN FROM THE SIDEWALLS OF THE IRM EXCAVATION AREA (SWRNA, 2005).
6. END-POINT SOIL SAMPLE FLOOR-2 TAKEN FROM THE FLOOR OF THE IRM EXCAVATION AREA (SWRNA, 2005).
7. END-POINT SOIL SAMPLES SS-1N, SS-1S, SS-1E, SS-1W TAKEN FROM THE SIDEWALLS OF THE SS-1 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
8. END-POINT SOIL SAMPLE SS-1B TAKEN FROM THE FLOOR OF THE SS-1 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
9. END-POINT SOIL SAMPLES SS-2N, SS-2S, SS-2E, AND SS-2W TAKEN FROM THE SIDEWALLS OF THE SS-2 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
10. END-POINT SOIL SAMPLE SS-2B TAKEN FROM THE FLOOR OF THE SS-2 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
11. END-POINT SOIL SAMPLES PI-1N, PI-2E, PI-3W, AND PI-4S TAKEN FROM THE SIDEWALLS OF THE FUEL DISPENSER ISLAND EXCAVATION AREA (SWRNA, 2007).
12. END-POINT SOIL SAMPLES H1 SIDEWALL AND H2 BOTTOM TAKEN FROM THE SIDEWALL AND FLOOR OF THE HYDRAULIC LIFT EXCAVATION AREA, RESPECTIVELY (SWRNA, 2007).
13. END-POINT SOIL SAMPLE SOIL END POINT TAKEN FROM THE SIDEWALL OF THE SUPPLEMENTAL SOIL EXCAVATION AROUND SS-2 (SWRNA, 2008).

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

CLIENTS | PEOPLE | PERFORMANCE

Madison County
47 Utica Street
ERP Site # E727011

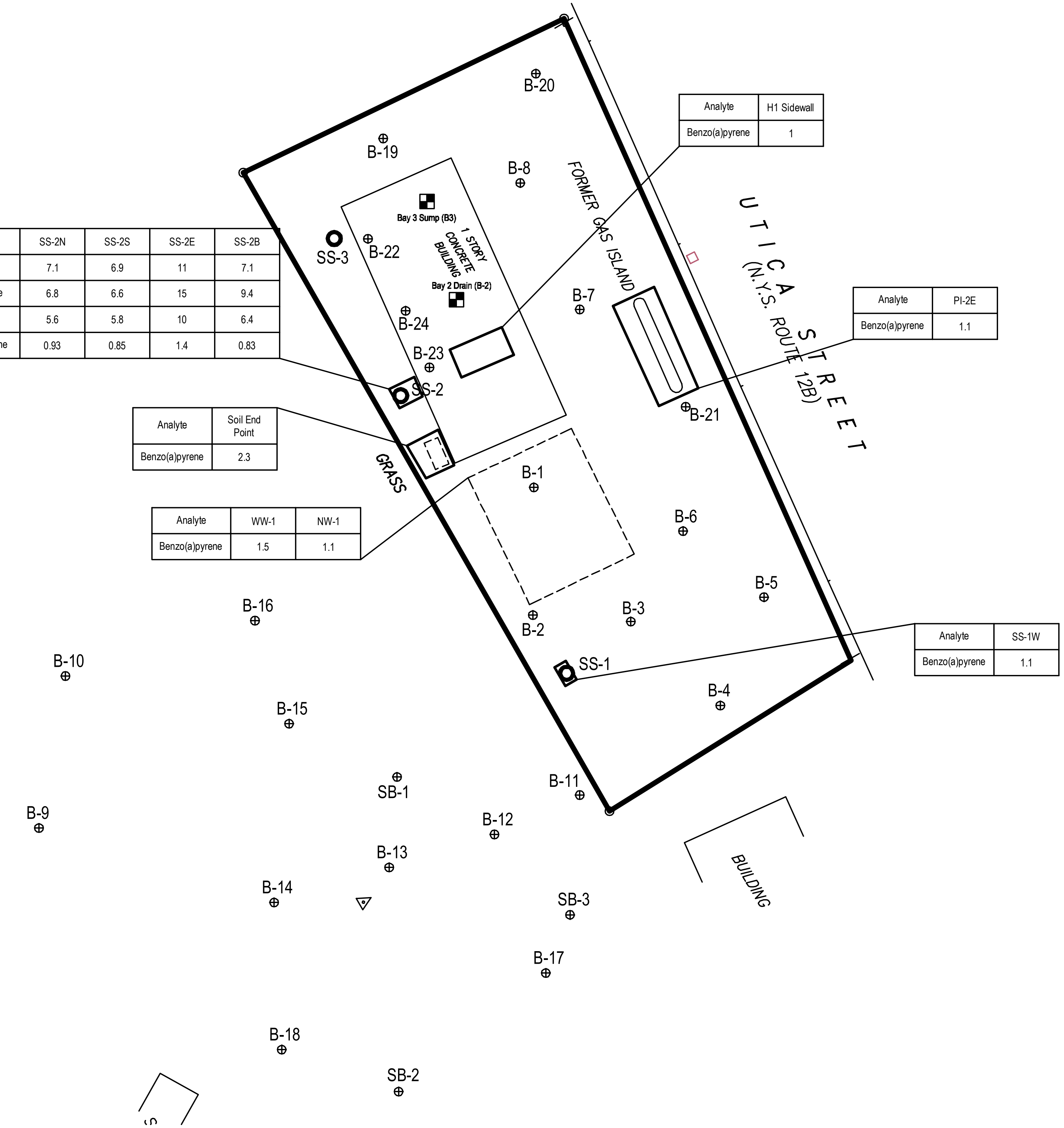
Remaining Soil Contamination Above Unrestricted Levels

Job Number 86-12051
Revision A
Date 07.30.13

Figure 6

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 26 August 2013 - 10:26 AM Cad File No: N:\US\Syracuse\Projects\86\12051\Environment.Folder.Files.7-11-2012\SMP\Figures\86-12051-D6.cadd.dwg



Analyte	H1 Sidewall
Benzo(a)pyrene	1

Analyte	SS-2N	SS-2S	SS-2E	SS-2B
Benzo(a)anthracene	7.1	6.9	11	7.1
Benzo(b)fluoranthene	6.8	6.6	15	9.4
Benzo(a)pyrene	5.6	5.8	10	6.4
Dibenzo(a,h)anthracene	0.93	0.85	1.4	0.83

Analyte	Soil End Point
Benzo(a)pyrene	2.3

Analyte	WW-1	NW-1
Benzo(a)pyrene	1.5	1.1

Analyte	PI-2E
Benzo(a)pyrene	1.1

Analyte	SS-1W
Benzo(a)pyrene	1.1

LEGEND:

LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)

AREA OF IRM EXCAVATION (APPROXIMATE)

SURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)

SUBSURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)

PROPERTY BOUNDARY (APPROXIMATE)

NOTES:

1. ONLY SAMPLES THAT EXCEEDED COMMERCIAL USE SOIL CLEANUP OBJECTIVES FOR AT LEAST ONE ANALYTE ARE SHOWN HERE (SEE TABLES IN REPORT FOR FULL ANALYTICAL RESULTS).
2. REMEDIAL ACTION TO ACHIEVE THE NO FURTHER ACTION WITH SITE MANAGEMENT ALTERNATIVE WOULD INCLUDE:
   - MAINTAINING EXISTING SOIL COVER
   - IMPLEMENT AN ENVIRONMENTAL EASEMENT
   - DEVELOP AND IMPLEMENT A SITE MANAGEMENT PLAN; AND
   - INSTALL, OPERATE, AND MAINTAIN A SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) IF THE EXISTING BUILDING, OR FUTURE BUILDINGS, ARE OCCUPIED IN THE FUTURE.
3. END-POINT SOIL SAMPLES WW-1 AND NW-1 TAKEN FROM THE SIDEWALL OF THE IRM EXCAVATION AREA (SWRNA, 2007)
4. END-POINT SOIL SAMPLE SS-1W TAKEN FROM THE SIDEWALL OF THE SS-1 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
5. END-POINT SOIL SAMPLES SS-2N, SS-2S, SS-2E TAKEN FROM THE SIDEWALLS OF THE SS-W - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
6. END-POINT SOIL SAMPLE SS-2B TAKEN FROM THE FLOOR OF THE SS-2 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
7. END-POINT SOIL SAMPLE PI-2E TAKEN FROM THE SIDEWALL OF THE FUEL DISPENSER ISLAND EXCAVATION AREA (SWRNA, 2007).
8. END-POINT SOIL SAMPLE HI SIDEWALL TAKEN FROM THE SIDEWALL OF THE HYDRAULIC LIFT EXCAVATION AREA (SWRNA, 2007).
9. END-POINT SOIL SAMPLE SOIL END POINT TAKEN FROM THE SIDEWALL OF THE SUPPLEMENTAL SOIL EXCAVATION AROUND SS-2 (SWRNA, 2008).

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

GHD

CLIENTS | PEOPLE | PERFORMANCE

Madison County
47 Utica Street
ERP Site # E727011

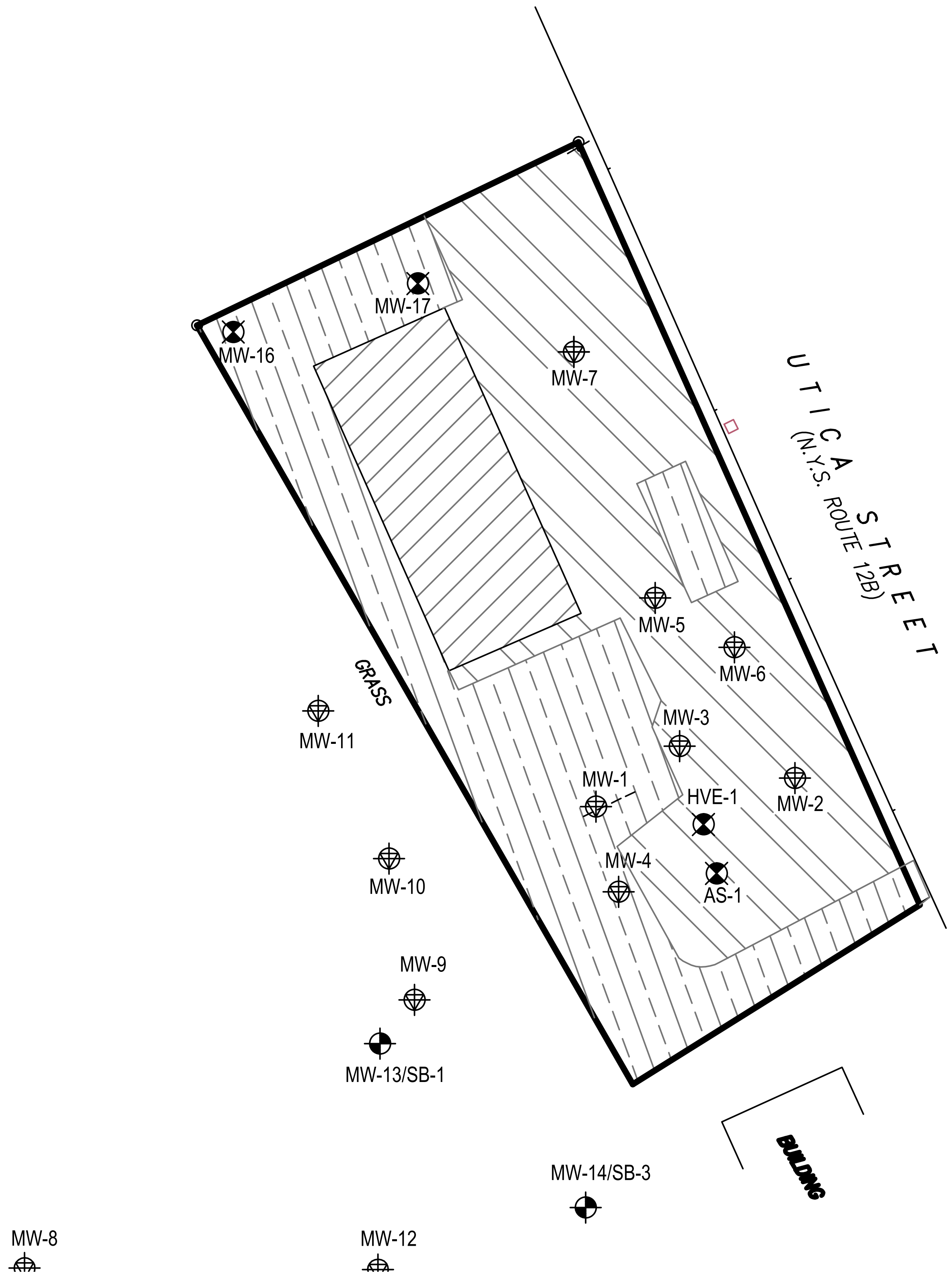
Remaining Soil Contamination
Above Commercial Levels

Job Number | 86-12051
Revision | A
Date | 07.30.13

Figure 7

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 26 August 2013 - 10:27 AM Cad File No: N:\US\Syracuse\Projects\86\12051\Environment.Folder.Files.7-11-2012\SMP\Figures\86-12051-D7.cadd.dwg



LEGEND:

- GROUNDWATER MONITORING WELL (2006)
- GROUNDWATER MONITORING WELL (2002)
- LOCATION OF SOIL/GRANULAR FILL COVER (APPROXIMATE)
- LOCATION OF PAVEMENT (APPROXIMATE)
- LOCATION OF BUILDING SLAB (APPROXIMATE)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:
1. COVER AREAS BASED ON SURVEY PROVIDED BY SUSAN M. ANACKER, PLS. AUGUST 14, 2013.

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

CLIENTS | PEOPLE | PERFORMANCE

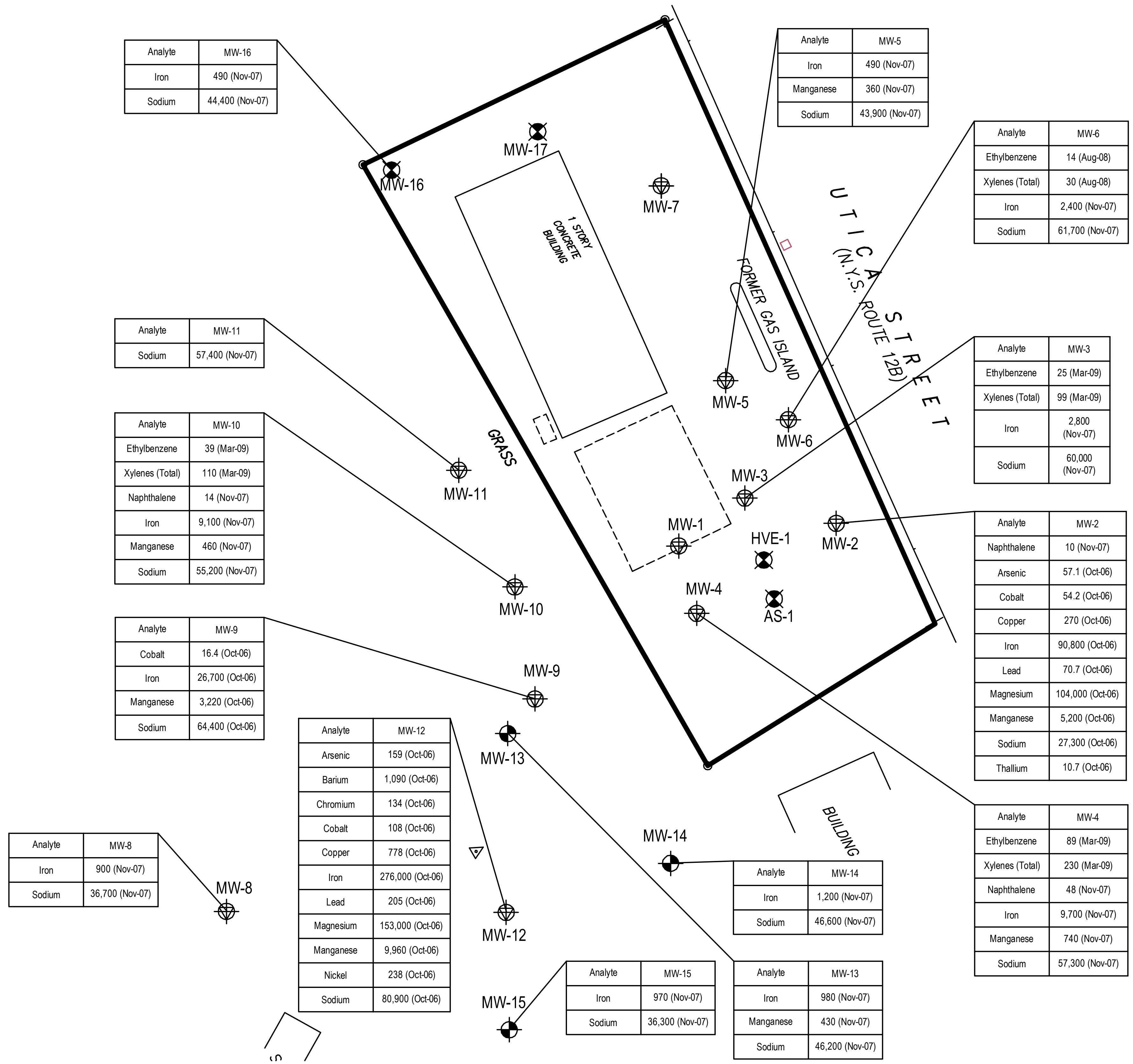
Madison County
47 Utica Street
ERP Site # E727011
Location of Cover Types

Job Number	86-12051
Revision	A
Date	07.30.13

Figure 8

One Remington Park Drive, Cazenovia NY 13035 USA **T** 1 315 679 5800 **F** 1 315 679 5853 **E** cazmail@ghd.com **W** www.ghd.com

Plot Date: 2 December 2014 - 1:52 PM Cad File No: G:\86\12051\From Syracuse Drive - 12-2-2014\Environment.Folder.Files.7-11-2012\SMP\Figures\86-12051-D8.cadd.dwg



Analyte	MW-16
Iron	490 (Nov-07)
Sodium	44,400 (Nov-07)

Analyte	MW-5
Iron	490 (Nov-07)
Manganese	360 (Nov-07)
Sodium	43,900 (Nov-07)

Analyte	MW-6
Ethylbenzene	14 (Aug-08)
Xylenes (Total)	30 (Aug-08)
Iron	2,400 (Nov-07)
Sodium	61,700 (Nov-07)

Analyte	MW-11
Sodium	57,400 (Nov-07)

Analyte	MW-10
Ethylbenzene	39 (Mar-09)
Xylenes (Total)	110 (Mar-09)
Naphthalene	14 (Nov-07)
Iron	9,100 (Nov-07)
Manganese	460 (Nov-07)
Sodium	55,200 (Nov-07)

Analyte	MW-3
Ethylbenzene	25 (Mar-09)
Xylenes (Total)	99 (Mar-09)
Iron	2,800 (Nov-07)
Sodium	60,000 (Nov-07)

Analyte	MW-2
Naphthalene	10 (Nov-07)
Arsenic	57.1 (Oct-06)
Cobalt	54.2 (Oct-06)
Copper	270 (Oct-06)
Iron	90,800 (Oct-06)
Lead	70.7 (Oct-06)
Magnesium	104,000 (Oct-06)
Manganese	5,200 (Oct-06)
Sodium	27,300 (Oct-06)
Thallium	10.7 (Oct-06)

Analyte	MW-9
Cobalt	16.4 (Oct-06)
Iron	26,700 (Oct-06)
Manganese	3,220 (Oct-06)
Sodium	64,400 (Oct-06)

Analyte	MW-12
Arsenic	159 (Oct-06)
Barium	1,090 (Oct-06)
Chromium	134 (Oct-06)
Cobalt	108 (Oct-06)
Copper	778 (Oct-06)
Iron	276,000 (Oct-06)
Lead	205 (Oct-06)
Magnesium	153,000 (Oct-06)
Manganese	9,960 (Oct-06)
Nickel	238 (Oct-06)
Sodium	80,900 (Oct-06)

Analyte	MW-4
Ethylbenzene	89 (Mar-09)
Xylenes (Total)	230 (Mar-09)
Naphthalene	48 (Nov-07)
Iron	9,700 (Nov-07)
Manganese	740 (Nov-07)
Sodium	57,300 (Nov-07)

Analyte	MW-8
Iron	900 (Nov-07)
Sodium	36,700 (Nov-07)

Analyte	MW-14
Iron	1,200 (Nov-07)
Sodium	46,600 (Nov-07)

Analyte	MW-15
Iron	970 (Nov-07)
Sodium	36,300 (Nov-07)

Analyte	MW-13
Iron	980 (Nov-07)
Manganese	430 (Nov-07)
Sodium	46,200 (Nov-07)

LEGEND:

- LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)
- GROUNDWATER MONITORING WELL (2006)
- GROUNDWATER MONITORING WELL (2002)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:
1. ONLY THE MOST RECENT GROUNDWATER SAMPLE ANALYTICAL RESULTS THAT EXCEEDED NYSDEC TOGS CLASS GA STANDARDS OR GUIDANCE VALUES ARE LISTED HERE (SEE TABLES IN REPORT FOR FULL LIST OF ANALYTES AND RESULTS).
2. ALL GROUNDWATER ANALYTICAL RESULTS REPORTED AS ug/L (PARTS PER BILLION).
3. THE GROUNDWATER SAMPLES EXHIBITED HIGH TURBIDITY AT THE TIME OF SAMPLE COLLECTION, WHICH LIKELY LEADS TO THE ELEVATED METALS CONCENTRATIONS IDENTIFIED.

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

GHD

CLIENTS | PEOPLE | PERFORMANCE

Madison County
47 Utica Street
ERP Site # E727011

Remaining Groundwater Contamination Above Class GA Standards

Job Number 86-12051
Revision A
Date 07.30.13

Figure 9

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 26 August 2013 - 10:28 AM Cad File No: N:\US\Syracuse\Projects\86\12051\Environment.Folder.Files.7-11-2012\SMP\Figures\86-12051-D9.cadd.dwg

TABLES

Table 1: (Page 1 of 1) Groundwater Elevation Data. Site Management Plan. 47 Utica Street, Hamilton, NY.

Monitoring Well ID	Date	Reference Point	Top of PVC Elev (ft amsl)	DTW (ft)	TDW (ft)	Groundwater Elevation (ft)
MW-3	Oct-06	Top of PVC	1113.15	6.46	10.65	1106.69
	Sep-07			6.93	10.65	1106.22
	Nov-07			6.62	10.65	1106.53
	Aug-08			6.75	10.65	1106.40
	Mar-09			6.03	10.91	1107.12
MW-4	Oct-06	Top of PVC	1113.44	6.4	12.43	1107.04
	Sep-07			7.31	12.43	1106.13
	Nov-07			7	12.43	1106.44
	Aug-08			7.1	12.43	1106.34
	Mar-09			6.37	12.39	1107.07
MW-6	Oct-06	Top of PVC	1113.06	6.41	11.65	1106.65
	Sep-07			6.97	11.65	1106.09
	Nov-07			6.58	11.65	1106.48
	Aug-08			6.81	11.65	1106.25
	Mar-09			6.06	-	1107.00
MW-7	Mar-09	Top of PVC	1113.29	6.13	-	1107.16
MW-10	Oct-06	Top of PVC	1114.42	7.81	13	1106.61
	Sep-07			8.22	13	1106.20
	Nov-07			8.01	13	1106.41
	Aug-08			8.09	13	1106.33
	Mar-09			7.42	13.01	1107.00
MW-13	Oct-06	Top of PVC	1114.55	7.95	13.75	1106.60
	Sep-07			8.39	13.75	1106.16
	Nov-07			8.16	13.75	1106.39
	Aug-08			8.24	13.75	1106.31
	Mar-09			7.66	-	1106.89
MW-14	Oct-06	Top of PVC	1114.59	7.75	13.9	1106.84
	Sep-07			8.51	13.9	1106.08
	Nov-07			8.23	13.9	1106.36
	Aug-08			8.33	13.9	1106.26
	Mar-09			7.61	-	1106.98
MW-15	Oct-06	Top of PVC	1114.18	8.03	14.17	1106.15
	Sep-07			8.21	14.17	1105.97
	Nov-07			7.95	14.17	1106.23
	Aug-08			8.06	14.17	1106.12
	Mar-09			7.41	14.06	1106.77
MW-16	Oct-06	Top of PVC	1114.38	-	-	-
	Sep-07			8.11	16.03	1106.27
	Nov-07			7.73	16.03	1106.65
	Aug-08			8.01	16.03	1106.37
	Mar-09			7.38	-	1107.00

Reference elevations were surveyd by Bryant Associates, P.C.

DTW-Depth to Water

TDW-Total Depth of Well

ft - feet

ft amsl - feet above mean sea level

Table 2: (Page 1 of 1) Previous Investigation Soil Contamination Summary. Soil Boring Samples. Nature's Way 2002. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification							
	Unrestricted Use	Commercial Use	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8
Sample Date			Feb-02	Feb-02	Feb-02	Feb-02	Feb-02	Feb-02	Feb-02	Feb-02
Sample Depth			4 - 8'	4 - 8'	4 - 8'	8 - 12'	8 - 12'	4 - 8'	4 - 8'	4 - 8'
VOCs by EPA Method 8260										
Acetone	0.05	500	U	U	U	U	**0.24**	U	U	U
Ethylbenzene	1	390	0.25	**9.7**	U	U	U	U	U	U
Xylenes (Total)	0.26	500	**2**	**57**	**1**	U	U	**1.5**	**0.31**	U
SVOCs by EPA Method 8270										
Fluorene	30	500	0.0021	U	U	U	U	U	U	U
2-Methylnaphthalene			U	0.01	0.0091	U	U	0.001	0.0012	U
Naphthalene	12	500	0.0025	0.0075	0.0027	U	U	0.00026	0.00054	U
Phenanthrene	100	500	0.0053	U	U	U	U	U	U	U

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification							
	Unrestricted Use	Commercial Use	B-9	B-10	B-11	B-12	B-13	B-14	B-17	B-18
Sample Date			Feb-02	Feb-02	Mar-02	Mar-02	Mar-02	Mar-02	Mar-02	Mar-02
Sample Depth			7 - 11'	7 - 11'	8 - 12'	8 - 12'	8 - 12'	8 - 12'	8 - 12'	8 - 12'
VOCs by EPA Method 8260										
All compounds analyzed for			U	U	U	U	U	U	U	U
SVOCs by EPA Method 8270										
All compounds analyzed for			U	U	U	U	U	U	U	U

All values reported in mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

U - Analyzed for but not detected above laboratory detection limits

Bold, heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlines cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

Only analytes that were detected above laboratory detection limits are reported

Table 3: (Page 1 of 1). Interim Remedial Measure Soil Sample Analytical Results. Excavation End-Point Soil Sampling. SWRNA, 2006. SMP. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Location					
			UST Excavation					
	Unrestricted Use	Commercial Use	EW-1	SW-1	WW-1	NW-1	Floor-1	Floor-2
			East Sidewall	South Sidewall	West Sidewall	North Sidewall	Northern Portion	Southern Portion
SEMIVOLATILES BY EPA 8270								
Naphthalene	12	500	U	U	U	0.14	U	5.4
Acenaphthene	20	500	U	U	U	U	U	U
Fluorene	30	500	U	U	0.08	U	U	U
Phenanthrene	100	500	U	U	1.8	0.5	U	0.23
Anthracene	100	500	U	U	0.4	0.31	U	U
Fluoranthene	100	500	U	U	2.6	1.6	U	0.25
Pyrene	100	500	U	U	2.7	1.6	U	0.29
Benz(a)anthracene	1	5.6	U	U	**1.7**	**1.3**	U	0.14
Chrysene	1	56	U	U	**1.8**	**1.2**	U	0.12
Benzo(b)fluoranthene	1	5.6	U	U	**1.8**	**1.2**	U	U
Benzo(k)fluoranthene	0.8	56	U	U	0.67	0.46	U	U
Benzo(a)pyrene	1	1	U	U	**1.5**	**1.1**	U	U
Indeno(1,2,3-cd)pyrene	0.5	5.6	U	U	**1.3**	**0.99**	U	U
Dibenz(a,h)anthracene	0.33	0.56	U	U	**0.39**	0.29	U	U
Benzo(g,h,i)perylene	100	500	U	U	1.3	1.2	U	U
Total SVOCs			ND	ND	18.04	11.89	ND	6.43
VOLATILES by EPA 8260								
Methyl tert-butyl ether	0.93	500	U	U	U	U	U	U
Benzene	0.06	44	U	U	U	U	U	U
Toluene	0.7	500	U	U	U	U	U	U
Ethylbenzene	1	390	U	U	U	U	U	0.9
m,p-xylene	0.26	500	U	U	U	U	U	**3.4**
o-xylene	0.26	500	U	U	U	U	U	0.043
Isopropylbenzene			U	U	U	U	U	1.3
n-Propylbenzene	3.9	500	U	U	U	U	U	**5**
1,3,5-Trimethylbenzene	8.4	190	U	U	U	U	U	5.1
tert-Butylbenzene	5.9	500	U	U	U	U	U	U
1,2,4-Trimethylbenzene	3.6	190	U	U	U	U	U	**10**
sec-Butylbenzene	11	500	U	U	U	U	U	1.1
p-Isopropyltoluene			U	U	U	U	U	0.76
n-Butylbenzene			U	U	U	U	U	1.8
Naphthalene	12	500	U	U	U	U	0.00087	0.12
Total VOCs			ND	ND	ND	ND	0.00087	29.523
TOTAL LEAD by ASTM D-2216								
Lead	63	1,000	8.2	9.6	**315**	**127**	5.5	9.9

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

Table 4: (Page 1 of 3). Remedial Investigation Soil Sample Analytical Results. Surface and Sub-Surface Soil Sampling. SWRNA, 2006. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification											
	Unrestricted Use	Commercial Use	Subsurface Off-Site			Subsurface On-Site						Surface Soil On-Site		
			SB-1	SB-2	SB-3	B-19	B-20	B-21	B-22	B-23	B-24	SS-1	SS-2	SS-3
Sample Date			9/18/2006	9/19/2006	9/19/2006	9/19/2006	9/18/2006	9/18/2006	9/20/2006	9/20/2006	9/20/2006	9/19/2006	9/19/2006	9/19/2006
Sample Depth			(8-10')	(8-10')	(8-10')	(6-8')	(4-6')	(8-10')	(8-10')	(8-10')	(8-10')			
EPA Method 6010B														
Aluminum			5,420	7,150	6,240	9,520	10,800	3,210	5,910	6,490	7,300	4,280	9,260	5,740
Antimony			UN	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN
Arsenic	13	16	6.5 BN	8 BN	6.4 BN	10.4 N	8.7 N	4 BN	4.9 BN	3.8 BN	4.6 BN	6.1 BN	7.1 BN	10.2 N
Barium	350	400	29.3	54.4	24.1	63.6	76.3	31.5	47.9	36.7	49.8	59.1	108	80.4
Beryllium	7.2	590	U	U	U	U	0.65 B	U	U	U	U	U	U	U
Cadmium	2.5	9.3	UN	UN	UN	UN	UN	UN	1.3 BN	UN	UN	**2.7 BN**	**2.5 BN**	**3.1 BN**
Calcium			112,000 N	88,800 N	89,200 N	3,790 N	12,300 N	152,000 N	154,000 N	109,000 N	78,500 N	144,000 N	25,100 N	149,000 N
Chromium	30	1,500	8.3	10.4	8.8	15.2	15.3	6.5	10.4	8.6	9.6	10.9	14.1	13.6
Cobalt			6.8 *	6.6 *	5.9 *	9.3 *	11 *	3 *	5.5 *	5.9 *	7 *	4.5 *	10.3 *	5.7 *
Copper	50	270	28.4	32.9	26.2	44.2	45.1	17.5	25.1	30.9	31.4	32.1	37.4	41.3
Iron			14,500	19,900	16,100	26,000	27,200	7,450	15,800	13,800	17,300	18,500	21,800	14,400
Lead	63	1,000	5.4 B	10	7.1 B	15.2	32.9	53.8	18.2	19.9	21	**247**	**321**	**334**
Magnesium			47,000	20,800	20,100	6,120	5,610	16,700	64,700	25,600	20,700	12,400	6,710	10,500
Manganese	1,600	10,000	490	571	379	488	773	480	805	448	688	376	707	380
Nickel	30	310	14.1	16.6	14.6	24.3	26.5	7.4	12.9	14.8	15.7	14.7	21.8	16
Potassium			825	957	855	1,030	974	702	989	1,080	1,030	650	748	764
Selenium	3.9	1,500	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN
Silver	2	1,500	U	U	U	U	U	U	U	U	U	U	U	U
Sodium			205	198	164	101 B	709	234	374	219	149	185	U	194
Thallium			U	4.2 B	3.5 B	13.3 B	11.8 B	U	5.1 B	U	5.3 B	4.1 B	9.5 B	U
Vanadium			9.1 *	13 *	10 *	16.5 *	20.2 *	8.3 *	12 *	10.3 *	13.2 *	11.8 *	18.2 *	13.7 *
Zinc	109	10,000	60.7	74	63	86.2	95.9	96.2	87.8	67.6	77.8	**155**	**756**	**310**
EPA Method 7471A														
Mercury	0.18	2.8	0.019 B	0.019 B	U	0.047 B	0.033 B	0.031 B	0.099	0.12	0.058	0.13	**0.25**	**0.28**

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlines cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlines cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as in the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result is < quantitation limit, but > zero. Reported concentration is an approximate value.

H Concentration is calculated by hand and is an approximation.

N Spike recovery exceeds the upper or lower control limits

* Batch QC exceeds upper or lower control limits for laboratory control standards

Table 4: (Page 2 of 3). Remedial Investigation Soil Sample Analytical Results. Surface and Sub-Surface Soil Sampling. SWRNA, 2006. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification											
			Subsurface Off-Site			Subsurface On-Site						Surface Soil On-Site		
	Unrestricted Use	Commercial Use	SB-1	SB-2	SB-3	B-19	B-20	B-21	B-22	B-23	B-24	SS-1	SS-2	SS-3
Sample Date			9/18/2006	9/19/2006	9/19/2006	9/19/2006	9/18/2006	9/18/2006	9/20/2006	9/20/2006	9/20/2006	9/19/2006	9/19/2006	9/19/2006
Sample Depth			(8-10')	(8-10')	(8-10')	(6-8')	(4-6')	(8-10')	(8-10')	(8-10')	(8-10')			
EPA Method 8260B														
1 1 1-Trichloroethane	0.68	500	U	U	U	U	U	U	U	U	U	U	U	U
1 1 2 2-Tetrachloroethane			U	U	U	U	U	U	U	U	U	U	U	U
1 1 2-Trichloroethane			U	U	U	U	U	U	U	U	U	U	U	U
1 1-Dichloroethane	0.27	240	U	U	U	U	U	U	U	U	U	U	U	U
1 1-Dichloroethene	0.33	500	U	U	U	U	U	U	U	U	U	U	U	U
1 2-Dichloroethane	0.02	30	U	U	U	U	U	U	U	U	U	U	U	U
1 2-Dichloropropane			U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	0.12	500	U	U	U	U	U	U	U	U	U	U	U	U
2-Hexanone			U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)			U	U	U	U	U	U	U	U	U	U	U	U
Acetone	0.05	500	0.01 JB	0.0073 JB	0.022 JB	UB	UB	UB	0.0077 JB	0.0074 JB	0.02 JB	UB	UB	UB
Benzene	0.06	44	U	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane			U	U	U	U	U	U	U	U	U	U	U	U
Bromoform			U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane			U	U	U	U	U	U	U	U	U	U	U	U
Carbon disulfide			U	U	U	U	U	0.0013 J	U	U	U	U	U	U
Carbon tetrachloride	0.76	22	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane			U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	0.37	350	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane			U	U	U	U	U	U	U	U	U	U	U	U
cis-1 2-Dichloroethene	0.25	500	U	U	U	U	U	U	U	U	U	U	U	U
cis-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane			U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	1	390	U	U	U	U	U	0.011	U	U	U	U	U	U
Methylene chloride	0.05	500	0.012 J	0.014 J	0.0091 J	0.012 J	0.0076 J	0.0069 J	0.0067 JB	0.0043 JB	0.0059 JHB	0.0096 J	0.0096 J	0.0082 J
Styrene			U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.3	150	U	U	U	0.0017 J	U	U	U	U	U	U	U	U
Toluene	0.7	500	U	U	U	U	U	U	U	U	U	U	U	U
trans-1 2-Dichloroethene	0.19	500	U	U	U	U	U	U	U	U	U	U	U	U
trans-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	0.47	200	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl chloride	0.02	13	U	U	U	U	U	U	U	U	U	U	U	U
Xylenes (total)	0.26	500	0.0077	U	U	U	0.0051 J	0.056	U	U	U	U	U	U
Total VOCs			0.0297	0.0213	0.0311	0.0137	0.0127	0.0752	0.0144	0.0117	0.0259	0.0096	0.0096	0.0082

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlines cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlines cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as in the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result is < quantitation limit, but > zero. The concentration reported is an approximate value.

H Concentration is calculated by hand and is an approximation.

Table 4: (Page 3 of 3). Remedial Investigation Soil Sample Analytical Results. Surface and Sub-Surface Soil Sampling. SWRNA, 2006. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification											
	Unrestricted Use	Commercial Use	Subsurface Off-Site			Subsurface On-Site						Surface Soil On-Site		
			SB-1	SB-2	SB-3	B-19	B-20	B-21	B-22	B-23	B-24	SS-1	SS-2	SS-3
Sample Date			9/18/2006	9/19/2006	9/19/2006	9/19/2006	9/18/2006	9/18/2006	9/20/2006	9/20/2006	9/20/2006	9/19/2006	9/19/2006	9/19/2006
Sample Depth			(8-10')	(8-10')	(8-10')	(6-8')	(4-6')	(8-10')	(8-10')	(8-10')	(8-10')			
EPA Method 8270C														
1 2 4-Trichlorobenzene			U	U	U	U	U	U	U	U	U	U	U	U
1 2-Dichlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U	U	U	U
1 3-Dichlorobenzene	2.4	280	U	U	U	U	U	U	U	U	U	U	U	U
1 4-Dichlorobenzene	1.8	130	U	U	U	U	U	U	U	U	U	U	U	U
2 2-oxybis (1-chloropropane)			U	U	U	U	U	U	U	U	U	U	U	U
2 4 5-Trichlorophenol			U	U	U	U	U	U	U	U	U	U	U	U
2 4 6-Trichlorophenol			U	U	U	U	U	U	U	U	U	U	U	U
2 4-Dichlorophenol			U	U	U	U	U	U	U	U	U	U	U	U
2 4-Dimethylphenol			U	U	U	U	U	U	U	U	U	U	U	U
2 4-Dinitrophenol			U	U	U	U	U	U	U	U	U	U	U	U
2 4-Dinitrotoluene			U	U	U	U	U	U	U	U	U	U	U	U
2 6-Dinitrotoluene			U	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene			U	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol			U	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene			U	U	U	U	U	0.82 J	U	U	U	0.085 J	0.36 J	0.064 J
2-Methylphenol			U	U	U	U	U	U	U	U	U	U	U	U
2-Nitroaniline			U	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol			U	U	U	U	U	U	U	U	U	U	U	U
3 3-Dichlorobenzidine			U	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline			U	U	U	U	U	U	U	U	U	U	U	U
4 6-Dinitro-2-methylphenol			U	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl phenyl ether			U	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol			U	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline			U	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl phenyl ether			U	U	U	U	U	U	U	U	U	U	U	U
4-Methylphenol			U	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline			U	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol			U	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	20	500	U	U	U	U	U	U	U	U	U	U	1.5 J	0.068 J
Acenaphthylene	100	500	U	U	U	U	0.057 J	U	U	0.13 J	U	0.4	0.3 J	0.26 J
Anthracene	100	500	U	U	U	U	U	U	U	0.14 J	U	0.38 J	2.2	0.3 J
Benzo(a)anthracene	1	5.6	U	U	U	U	0.22 J	U	U	0.67	0.057 J	**1.7**	**7.4**	0.77
Benzo(a)pyrene	1	1	U	U	U	U	0.26 J	U	U	0.55	0.059 J	**1.6**	**6.4**	0.79
Benzo(b)fluoranthene	1	5.6	U	U	U	U	0.19 J	U	U	0.59	U	**1.5**	**5.9**	0.69
Benzo(ghi)perylene	100	500	U	U	U	U	0.47	U	U	0.28 J	U	1.4	5	0.67
Benzo(k)fluoranthene	0.8	56	U	U	U	U	0.2 JM	U	U	0.54	0.06 J	**1.3**	**5.2**	0.61
Benzyl alcohol			U	U	U	U	U	U	U	U	U	U	U	U
Bis(2-chloroethoxy)methane			U	U	U	U	U	U	U	U	U	U	U	U
Bis(2-chloroethyl)ether			U	U	U	U	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate			3.4	0.52	0.83 J	0.69	1.1	5.1	0.61 B	1 B	0.42 B	0.064 JB	UB	0.12 JB
Butyl benzyl phthalate			U	U	U	U	U	U	U	U	U	U	U	0.11 J
Carbazole			U	U	U	U	U	U	U	0.057 J	U	0.14 J	1.7 J	0.092 J
Chrysene	1	56	U	U	U	U	0.26 J	U	U	0.62	0.056 J	**1.7**	**7.5**	0.78
Dibenzo(a h)anthracene	0.33	0.56	U	U	U	U	0.077 JM	U	U	0.1 J	U	**0.4**	**1.6 J**	0.17 J
Dibenzofuran			U	U	U	U	U	U	U	U	U	U	0.9 J	U
Diethyl phthalate			U	U	U	U	U	U	U	U	U	U	U	U
Dimethyl phthalate			U	U	U	U	U	U	U	U	U	U	U	U
Di-n-butyl phthalate			U	U	U	U	U	U	U	U	U	U	U	U
Di-n-octyl phthalate			U	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	100	500	U	U	U	U	0.2 J	U	U	1.2	0.1 J	2.2	14	1
Fluorene	30	500	U	U	U	U	U	U	U	U	U	0.056 J	1 J	0.062 J
Hexachlorobenzene	0.33	6	U	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene			U	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene			U	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane			U	U	U	U	U	U	U	U	U	U	U	U
Indeno(1 2 3-cd)pyrene	0.5	5.6	U	U	U	U	0.28 JM	U	U	0.35 J	U	**1.5**	**6.1**	0.7
Isophorone			U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	12	500	U	U	U	U	U	U	U	U	U	0.072 J	0.72 J	0.069 J
Nitrobenzene		69	U	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine			U	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine			U	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	0.8	6.7	U	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	100	500	U	U	U	U	0.1 J	U	U	0.61	U	0.84	12	0.58
Phenol	0.33	500	U	U	U	U	U	U	U	U	U	U	U	U
Pyrene	100	500	U	U	U	U	0.63	U	U	1.1	0.099 J	2.1	12	0.92
Total SVOCs			3.4	0.52	0.83	0.69	4.044	5.92	0.61	7.937	0.851	17.437	91.78	8.825

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlines cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlines cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as in the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero. The concentration reported is an approximate value.

H Concentration is calculated by hand and is an approximation.

ND Not detected by analytical method.

M Manually integrated compound

Table 5: (Page 1 of 4) Previous Investigation Groundwater Contamination Summary. On-Site and Off-Site Groundwater Monitoring Wells. Nature's Way 2002 - 2005. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (ug/L)	GW Standards[1]	Sample Identification									
		MW-1					MW-2				
Sample Date		March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005
VOCs by EPA Method 8260											
Benzene	1			U	U	U			U	U	U
n-Butylbenzene	5			U	U	U			U	U	U
sec-Butylbenzene	5			U	2.8	**9.76**			U	U	U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	**350**	**240**	**250**	**36**	**126**	U	U	U	U	U
Isopropylbenzene	5			**64**	**5.3**	**40.9**			U	U	U
4-Isopropyltoluene	5				1.1	**16**				U	U
Methyl-tert-butyl ether	10 (G)					U				U	U
n-Propylbenzene	5			**170**	**16**	**98.6**			U	U	U
tert-Butylbenzene	5					U					U
Toluene	5	U	U	U	U	U	**18**	**50**	U	U	U
1,2,4-Trimethylbenzene	5			**1,100**	**86**	**916**			U	U	U
1,3,5-Trimethylbenzene	5			**240**	**16**	**191**			U	U	U
Xylenes	5	**1,400**	**880**	**700**	**130**	**378.22**	U	U	U	U	U
SVOCs by EPA Method 8270											
2-Methylnaphthalene		19	13	U	U	U	U	U	U	U	U
Naphthalene	10(G)	**85**	**78**	**230**	**18**	**101**	U	U	U	U	U

Analyte (ug/L)	GW Standards[1]	Sample Identification									
		MW-3					MW-4				
Sample Date		March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005
VOCs by EPA Method 8260											
Benzene	1			U	U	U			U	U	U
n-Butylbenzene	5			**79**	U	U			**85**	U	U
sec-Butylbenzene	5			U	**5.1**	**8.13**			**54**	U	**25.7**
Carbon disulfide	60 (G)	U	U	U	U	U	**350**	U	U	U	U
Ethylbenzene	5	**380**	**400**	**470**	**48**	**45.3**	**340**	**270**	**390**	**83**	**183**
Isopropylbenzene	5			**79**	**17**	**27.7**			**140**	U	**76.5**
4-Isopropyltoluene	5				4	**14.3**				U	**51.7**
Methyl-tert-butyl ether	10 (G)				U	U				U	U
n-Propylbenzene	5			**150**	**50**	**83**			**410**	U	**290**
tert-Butylbenzene	5					U					U
Toluene	5	U	U	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	5			**2,500**	**48**	**470**			**3,500**	**870**	**2,410**
1,3,5-Trimethylbenzene	5			**1,100**	**68**	**87**			**1,900**	**300**	**485**
Xylenes	5	**1,600**	**1,800**	**230**	**150**	**180.86**	**1,400**	**1,200**	**1,600**	**710**	**628**
SVOCs by EPA Method 8270											
2-Methylnaphthalene		52	58	U	U	U	85	81	U	U	U
Naphthalene	10(G)	**150**	**150**	**440**	**39**	**51.7**	**170**	**150**	**360**	**56**	**481**

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U - Analyzed for but not detected above laboratory detection limits

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Only analytes that were detected above laboratory detection limits are reported

Blank cell indicates that the analyte was not analyzed for during that sampling event

Table 5: (Page 2 of 4) Previous Investigation Groundwater Contamination Summary. On-Site and Off-Site Groundwater Monitoring Wells. Nature's Way 2002 - 2005. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (ug/L)	GW Standards[1]	Sample Identification									
		MW-5					MW-6				
Sample Date		March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005
VOCs by EPA Method 8260											
Benzene	1			U	U	U			U	U	U
n-Butylbenzene	5			U	U	U			**26**	U	U
sec-Butylbenzene	5			U	4.9	2.65			U	**12**	3.01
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	**28**	U	U	U	**8.2**	**65**	U	**36**	**26**	3.84
Isopropylbenzene	5			U	4.2	2.11			U	**38**	3
4-Isopropyltoluene	5				**6.2**	2.3				**7.2**	1.18
Methyl-tert-butyl ether	10 (G)				U	U				1.3	U
n-Propylbenzene	5			U	**17**	**5.29**			**36**	**120**	**8.83**
tert-Butylbenzene	5					1.28					1.16
Toluene	5	U	U	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	5			U	**75**	**72.2**			**380**	**350**	**63.6**
1,3,5-Trimethylbenzene	5			U	**6.6**	3.02			**190**	**110**	**14.2**
Xylenes	5	**230**	**790**	U	2.6	**42.21**	**290**	**110**	**150**	**61**	**17.98**
SVOCs by EPA Method 8270											
2-Methylnaphthalene		14	16	U	U	U	42	30	U	U	U
Naphthalene	10(G)	**17**	**13**	U	2.4	5.31	**60**	**38**	**30**	**23**	6.91

Analyte (ug/L)	GW Standards[1]	Sample Identification									
		MW-7					MW-8				
Sample Date		March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005
VOCs by EPA Method 8260											
Benzene	1			U	U	U			U	U	U
n-Butylbenzene	5			U	U	U			U	U	U
sec-Butylbenzene	5			U	U	U			U	U	U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene	5			U	U	U			U	U	U
4-Isopropyltoluene	5				U	U			U	U	U
Methyl-tert-butyl ether	10 (G)				U	U			U	U	U
n-Propylbenzene	5			U	U	U			U	U	U
tert-Butylbenzene	5					U					U
Toluene	5	U	U	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	5			U	U	U			U	U	U
1,3,5-Trimethylbenzene	5			U	U	U			U	U	U
Xylenes	5	U	U	U	U	U	U	U	U	U	U
SVOCs by EPA Method 8270											
2-Methylnaphthalene		U	U	U	U	U	U	U	U	U	U
Naphthalene	10(G)	U	U	U	U	4.98	U	U	U	U	U

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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Table 5: (Page 3 of 4) Previous Investigation Groundwater Contamination Summary. On-Site and Off-Site Groundwater Monitoring Wells. Nature's Way 2002 - 2005. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (ug/L)	GW Standards[1]	Sample Identification									
		MW-9					MW-10				
Sample Date		March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005
VOCs by EPA Method 8260											
Benzene	1			U	U	U			**20**	**2.6**	U
n-Butylbenzene	5			U	U	U			U	U	U
sec-Butylbenzene	5			U	U	U			U	**9.2**	**6.1**
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	**5.1**	**9.1**	**280**	**55**	**90.8**
Isopropylbenzene	5			U	U	U			U	**25**	**22.7**
4-Isopropyltoluene	5				U	U				2.8	4.37
Methyl-tert-butyl ether	10 (G)				U	U				U	U
n-Propylbenzene	5			U	U	U			U	**75**	**46.3**
tert-Butylbenzene	5					U					U
Toluene	5	U	U	U	U	U	U	U	U	1.9	2.18
1,2,4-Trimethylbenzene	5			U	U	U			**230**	**200**	**322**
1,3,5-Trimethylbenzene	5			U	U	U			**65**	**17**	**15.9**
Xylenes	5	U	U	U	U	U	**38**	**20**	**510**	**300**	**575.79**
SVOCs by EPA Method 8270											
2-Methylnaphthalene		U	U	U	U	U	U	6.8	U	U	U
Naphthalene	10(G)	U	U	U	U	U	**10**	8.1	**23**	**46**	**35.5**

Analyte (ug/L)	GW Standards[1]	Sample Identification									
		MW-11					MW-12				
Sample Date		March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	June 17, 2002	September 9, 2002	March 3, 2005
VOCs by EPA Method 8260											
Benzene	1			U	U	U			U	U	U
n-Butylbenzene	5			U	U	U			**21**	U	U
sec-Butylbenzene	5			U	U	U			U	U	1.67
Carbon disulfide	60 (G)	U	U	U	U	U	NA	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	NA	U	**65**	U	U
Isopropylbenzene	5			U	U	U			**22**	U	4.51
4-Isopropyltoluene	5				U	U				U	U
Methyl-tert-butyl ether	10 (G)				U	U				U	U
n-Propylbenzene	5			U	U	U			**62**	U	3.17
tert-Butylbenzene	5					U					U
Toluene	5	U	U	U	U	U	NA	U	U	U	U
1,2,4-Trimethylbenzene	5			U	U	U			**580**	U	**11.7**
1,3,5-Trimethylbenzene	5			U	U	U			**290**	U	U
Xylenes	5	U	U	U	U	U	NA	U	**340**	U	1.31
SVOCs by EPA Method 8270											
2-Methylnaphthalene		U	U	U	U	U	NA	U	U	U	U
Naphthalene	10(G)	U	U	U	U	U	NA	U	**47**	U	U

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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Table 5: (Page 4 of 4) Previous Investigation Groundwater Contamination Summary. On-Site and Off-Site Groundwater Monitoring Wells. Nature's Way 2002 - 2005. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (ug/L)	GW Standards[1]	Sample Identification						
		HVE-1				AS-1		
Sample Date		March 4, 2002	March 20, 2002	September 9, 2002	March 3, 2005	March 4, 2002	March 20, 2002	September 9, 2002
VOCs by EPA Method 8260								
Benzene	1			U	U			U
n-Butylbenzene	5			U	2.73			U
sec-Butylbenzene	5			1.3	1.71			U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U
Ethylbenzene	5	**12**	**8**	U	U	U	U	U
Isopropylbenzene	5			1	U			U
4-Isopropyltoluene	5			U	U			U
Methyl-tert-butyl ether	10 (G)			U	U			U
n-Propylbenzene	5			2.6	2.88			U
tert-Butylbenzene	5				U			
Toluene	5	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	5			**7.8**	2.06			U
1,3,5-Trimethylbenzene	5			U	U			U
Xylenes	5	**44**	**24**	1.6	U	U	U	U
SVOCs by EPA Method 8270								
2-Methylnaphthalene		U	U	U	U	U	U	U
Naphthalene	10(G)	5.8	U	U	U	U	U	U

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U - Analyzed for but not detected above laboratory detection limits

NA - Not analyzed for

Only analytes that were detected above laboratory detection limits are reported

Blank cell indicates that the analyte was not analyzed for during that sampling event

Table 6: (Page 1 of 12). Groundwater Sample Analytical Results. On-Site and Off-Site Groundwater Monitoring Wells. SWRNA, 2006 - 2009. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	On-Site Monitoring Wells									
		MW-3					MW-4				
		Oct-06	Sep-07	Nov-07	Aug-08	Mar-09	Oct-06	Sep-07	Nov-07	Aug-08	Mar-09
VOCs by EPA 8260B											
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	U	U
1.2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50 (G)	U	U	U	U	U	U	U	U	U	U
2-Hexanone	50 (G)	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)		U	U	U	U	U	U	U	U	U	U
Acetone	50 (G)	U	U	U	U	U	U	20 UJ	U	U	U
Benzene	1	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	50 (G)	U	U	U	U	U	U	U	U	U	U
Bromoform	50 (G)	U	U	U	U	U	U	U	U	U	U
Bromomethane	5	U	U	U	U	U	U	U	U	U	U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	5	U	U	U	U	U	U	U	U	U	U
Chloroethane	5	U	U	U	U	U	U	U	U	U	U
Chloroform	7	U	U	U	U	U	U	U	U	U	U
Chloromethane		U	0.42 J	U	U	U	U	U	U	U	U
cis-1,2-Dichlorothene	5	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	50 (G)	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	**27**	**17**	**18**	**14**	**25**	U	**88**	**74**	2.7 J	**89**
Methylene chloride	5	0.68 JB	U	U	U	U	B	UJ	U	U	U
Styrene	5	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	5	U	U	U	U	U	U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U
Trichloroethene	5	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	2	U	U	U	U	U	U	U	U	U	U
Xylenes (total)	5	**88**	**61**	**53**	**46**	**99**	U	**320**	**230**	**250**	**230**
MTBE	10 (G)	U	U	U	U	U	U	U	U	U	U
Naphthalene	10 (G)	**14**	**10**	**10**	**19**	**67**	U	**37**	**48**	U	**110**
TOTAL VOCs		129.68	88.42	81	79	191	ND	465	352	252.7	429

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result < quantitation limit, but > zero. Reported concentration is an approximate value.

H Concentration is calculated by hand and is an approximation.

NS-Well not Sampled (naphthalene only analyzed in Aug-08)

Table 6: (Page 2 of 12). Groundwater Sample Analytical Results. On-Site and Off-Site Groundwater Monitoring Wells. SWRNA, 2006 - 2009. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[1] Class GA	On-Site Monitoring Wells									
		MW-6				MW-16			MW-17		
		Oct-06	Sep-07	Nov-07	Aug-08	Sep-07	Nov-07	Aug-08	Sep-07	Nov-07	Aug-08
VOCs by EPA 8260B											
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	NS	NS	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	NS	NS	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	NS	NS	U
1,1-Dichloroethane	5	U	U	U	U	U	U	U	NS	NS	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	NS	NS	U
1,2-Dichloropropane	1	U	U	U	U	U	U	U	NS	NS	U
1.2-Dichloroethane	0.6	U	U	U	U	U	U	U	NS	NS	U
2-Butanone (MEK)	50 (G)	U	U	U	U	U	U	U	NS	NS	U
2-Hexanone	50 (G)	U	U	U	U	U	U	U	NS	NS	U
4-Methyl-2-pentanone (MIBK)		U	U	U	U	U	U	U	NS	NS	U
Acetone	50 (G)	U	U	U	5.7 J	U	U	U	NS	NS	U
Benzene	1	U	U	U	U	U	U	U	NS	NS	U
Bromodichloromethane	50 (G)	U	U	U	U	U	U	U	NS	NS	U
Bromoform	50 (G)	U	U	U	U	U	U	U	NS	NS	U
Bromomethane	5	U	U	U	U	U	U	U	NS	NS	U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	NS	NS	U
Carbon tetrachloride	5	U	U	U	U	U	U	U	NS	NS	U
Chlorobenzene	5	U	U	U	U	U	U	U	NS	NS	U
Chloroethane	5	U	U	U	U	U	U	U	NS	NS	U
Chloroform	7	U	U	U	U	U	U	U	NS	NS	U
Chloromethane		U	U	U	U	U	U	U	NS	NS	U
cis-1,2-Dichlorothene	5	U	U	U	U	U	U	U	NS	NS	U
cis-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	NS	NS	U
Dibromochloromethane	50 (G)	U	U	U	U	U	U	U	NS	NS	U
Ethylbenzene	5	U	**7.4**	**10**	**14**	U	U	U	NS	NS	U
Methylene chloride	5	0.50 JB	U	U	U	U	U	U	NS	NS	U
Styrene	5	U	U	U	U	U	U	U	NS	NS	U
Tetrachloroethene	5	U	U	U	U	U	U	U	NS	NS	3.1 J
Toluene	5	U	U	U	U	U	U	U	NS	NS	U
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	NS	NS	U
trans-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	NS	NS	U
Trichloroethene	5	U	U	U	U	U	U	U	NS	NS	U
Vinyl Chloride	2	U	U	U	U	U	U	U	NS	NS	U
Xylenes (total)	5	U	**8.9**	**12**	**30**	U	U	U	NS	NS	U
MTBE	10 (G)	U	U	U	U	U	U	U	NS	NS	U
Naphthalene	10 (G)	U	2.8	U	9.4	U	U	U	NS	NS	U
TOTAL VOCs		0.5	19.1	22	59.1	ND	ND	ND	NS	NS	3.1

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

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NS-Well not Sampled (naphthalene only analyzed in Aug-08)

Table 6: (Page 3 of 12). Groundwater Sample Analytical Results. On-Site and Off-Site Groundwater Monitoring Wells. SWRNA, 2006 - 2009. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS(1) Class GA	Off-Site Monitoring Wells								
		MW-10					MW-13			
		Oct-06	Sep-07	Nov-07	Aug-08	Mar-09	Oct-06	Sep-07	Nov-07	Aug-08
VOCs by EPA 8260B										
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	U
1.2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50 (G)	U	U	U	U	U	B	U	U	U
2-Hexanone	50 (G)	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)		U	U	U	U	U	U	U	U	U
Acetone	50 (G)	1.5 J	U	U	U	U	U	U	U	1.4 J
Benzene	1	0.47 J	0.41 J	U	U	U	H	U	U	U
Bromodichloromethane	50 (G)	U	U	U	U	U	U	U	U	U
Bromoform	50 (G)	U	U	U	U	U	U	U	U	U
Bromomethane	5	U	U	U	U	U	U	U	U	U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U
Chlorobenzene	5	U	U	U	U	U	U	U	U	U
Chloroethane	5	U	U	U	U	U	U	U	U	U
Chloroform	7	U	U	U	U	U	U	U	U	U
Chloromethane		U	U	U	U	U	U	U	U	U
cis-1,2-Dichlorothene	5	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U
Dibromochloromethane	50 (G)	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	**6.2**	0.47 J	U	2 J	**39**	U	U	U	U
Methylene chloride	5	0.55 JHB	U	U	U	U	0.52 JB	U	U	U
Styrene	5	U	U	U	U	U	U	U	U	U
Tetrachloroethene	5	U	U	U	U	U	U	U	U	U
Toluene	5	0.48 J	**5**	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U
Trichloroethene	5	U	U	U	U	U	U	U	U	U
Vinyl Chloride	2	U	U	U	U	U	U	U	U	U
Xylenes (total)	5	**96**	**66**	**77**	**240**	**110**	U	U	U	U
MTBE	10 (G)	U	0.79 J	U	U	U	U	U	U	U
Naphthalene	10 (G)	9	**11**	**14**	**49**	**16**	U	U	U	U
TOTAL VOCs		114.2	83.67	91	291	165	0.52	ND	ND	1.4

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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NS-Well not Sampled (naphthalene only analyzed in Aug-08)

Table 6: (Page 4 of 12). Groundwater Sample Analytical Results. On-Site and Off-Site Groundwater Monitoring Wells. SWRNA, 2006 - 2009. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	Off-Site Monitoring Wells								
		MW-14				MW-15				
		Oct-06	Sep-07	Nov-07	Aug-08	Oct-06	Sep-07	Nov-07	Aug-08	Mar-09
VOCs by EPA 8260B										
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	U
1.2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50 (G)	B	U	U	U	B	U	U	U	U
2-Hexanone	50 (G)	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)		U	U	U	U	U	U	U	U	U
Acetone	50 (G)	U	U	U	U	1.7 J	U	U	U	U
Benzene	1	U	U	U	U	U	U	U	U	U
Bromodichloromethane	50 (G)	U	U	U	U	U	U	U	U	U
Bromoform	50 (G)	U	U	U	U	U	U	U	U	U
Bromomethane	5	U	U	U	U	U	U	U	U	U
Carbon disulfide	60 (G)	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U
Chlorobenzene	5	U	U	U	U	U	U	U	U	U
Chloroethane	5	U	U	U	U	U	U	U	U	U
Chloroform	7	U	U	U	U	U	U	U	U	U
Chloromethane		U	U	U	U	U	U	U	U	U
cis-1,2-Dichlorothene	5	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U
Dibromochloromethane	50 (G)	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	U	U	U	U
Methylene chloride	5	0.49 JB	U	U	U	0.54 JB	U	U	U	U
Styrene	5	U	U	U	U	U	U	U	U	U
Tetrachloroethene	5	U	U	U	U	U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U
Trichloroethene	5	U	U	U	U	U	U	U	U	U
Vinyl Chloride	2	U	U	U	U	U	U	U	U	U
Xylenes (total)	5	U	3.6 J	2.2 J	U	4.5 J	U	U	U	U
MTBE	10 (G)	U	U	U	U	U	U	U	U	U
Naphthalene	10 (G)	U	0.72	1.3	U	1	U	U	U	U
TOTAL VOCs		0.49	4.32	3.5	ND	7.74	ND	ND	ND	ND

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

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Table 6: (Page 5 of 12). Groundwater Sample Analytical Results. On-Site and Off-Site Groundwater Monitoring Wells. SWRNA, 2006 - 2009. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[1] Class GA	On-Site Monitoring Wells								
		MW-2			MW-3			MW-4		
		Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C										
1,2,4-Trichlorobenzene	5	U	NS	NS	U	U	U	U	U	U
1,2-Dichlorobenzene	3	U	NS	NS	U	U	U	U	U	U
1,3 -Dichlorobenzene	3	U	NS	NS	U	U	U	U	U	U
1,4-Dichlorobenzene	3	U	NS	NS	U	U	U	U	U	U
2,2-oxybis (1-cholorpropane)		U	NS	NS	U	U	U	U	U	U
2,4,5-Trichlorophenol		U	NS	NS	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	NS	NS	U	U	U	U	U	U
2,4-Dichlorophenol	5	U	NS	NS	U	U	U	U	U	U
2,4-Dimethylphenol	50(G)	U	NS	NS	U	U	U	U	U	U
2,4-Dinitrophenol	10(G)	U	NS	NS	U	U	U	U	U	U
2,4-Dinitrotoluene	5	U	NS	NS	U	U	U	U	U	U
2,6-Dinitrotoluene	5	U	NS	NS	U	U	U	U	U	U
2-Chloronaphthalene	10(G)	U	NS	NS	U	U	U	U	U	U
2-Chlorophenol		U	NS	NS	U	U	U	U	U	U
2-Methylnaphthalene		U	NS	NS	4 J	2.9 J	3.2 J	U	4.5 J	12
2-Methylphenol		U	NS	NS	U	U	U	U	U	U
2-Nitroaniline	5	U	NS	NS	U	U	U	U	U	U
2-Nitrophenol		U	NS	NS	U	U	U	U	U	U
3,3-Dichlorobenzidine	5	U	NS	NS	U	U	U	U	U	U
3-Nitroaniline	5	U	NS	NS	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	NS	NS	U	U	U	U	U	U
4-Bromophenyl phenyl ether		U	NS	NS	U	U	U	U	U	U
4-Chloro-3-methylphenol		U	NS	NS	U	U	U	U	U	U
4-Chloroaniline	5	U	NS	NS	U	U	U	U	U	U
4-Chlorophenyl phenyl ether		U	NS	NS	U	U	U	U	U	U
4-Methylphenol		U	NS	NS	U	U	U	U	U	0.65 J
4-Nitroaniline	5	U	NS	NS	U	U	U	U	U	U
4-Nitrophenol		U	NS	NS	U	U	U	U	U	U
Acenaphthene	20(G)	U	NS	NS	U	U	U	U	U	U
Acenaphthylene		U	NS	NS	U	U	U	U	U	U
Anthracene	50(G)	U	NS	NS	U	U	U	U	U	U
Benzo(a)anthracene	0.002(G)	U	NS	NS	U	U	U	U	U	U
Benzo(a)pyrene	ND	U	NS	NS	U	U	U	U	U	U
Benzo(b)fluoranthene	0.002(G)	U	NS	NS	U	U	U	U	U	U
Benzo(k)fluoranthene	0.002(G)	U	NS	NS	U	U	U	U	U	U
Benzyl alcohol		U	NS	NS	U	U	U	U	U	U
Bis (2-chloroethyl) ether	1	U	NS	NS	U	U	U	U	U	U
Bis(2-chloroethoxy)methane	5	U	NS	NS	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate	5	U	NS	NS	U	U	U	U	U	U
Butyl benzyl phthalate	50(G)	U	NS	NS	U	U	U	U	U	U
Carbazole		U	NS	NS	U	U	U	U	U	U
Chrysene	0.002(G)	U	NS	NS	U	U	U	U	U	U
Dibenzo(a,h)anthracene		U	NS	NS	U	U	U	U	U	U
Dibenzofuran		U	NS	NS	U	U	U	U	U	U
Diethyl phthalate	50(G)	U	NS	NS	U	U	U	U	U	U
Dimethyl phthalate	50(G)	U	NS	NS	U	U	U	U	U	U
Di-n-butyl phthalate	50	U	NS	NS	U	U	U	U	U	U
Di-n-octyl phthalate	50(G)	U	NS	NS	U	U	U	U	U	U
Fluoranthene	50(G)	U	NS	NS	U	U	U	U	U	U
Fluorene	50(G)	U	NS	NS	U	U	U	U	U	U
Hexachlorobenzene	0.04	U	NS	NS	U	U	U	U	U	U
Hexachlorobutadiene	0.5	U	NS	NS	U	U	U	U	U	U
Hexachlorocyclopentadiene	5	U	NS	NS	U	U	U	U	U	U
Hexachloroethane	5	U	NS	NS	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)	U	NS	NS	U	U	U	U	U	U
Isophorone	50(G)	U	NS	NS	U	U	U	U	U	U
Naphthalene	10(G)	U	NS	NS	**14**	**10**	**10 J**	U	**37**	**48**
Nitrobenzene	0.4	U	NS	NS	U	U	U	U	U	U
n-Nitroso-di-n-propylamine		U	NS	NS	U	U	U	U	U	U
n-Nitrosodiphenylamine	50(G)	U	NS	NS	U	U	U	U	U	U
Pentachlorophenol	1	U	NS	NS	U	U	U	U	U	U
Phenanthrene	50(G)	U	NS	NS	U	U	U	U	U	U
Phenol	1	U	NS	NS	U	U	U	U	U	U
Pyrene	50(G)	U	NS	NS	U	U	U	U	U	U
TOTAL SVOCs		ND	NS	NS	18	12.9	13.2	ND	41.5	60.65

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Table 6: (Page 6 of 12). Groundwater Sample Analytical Results. On-Site and Off-Site Groundwater Monitoring Wells. SWRNA, 2006 - 2009. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	On-Site Monitoring Wells						
		MW-5		MW-6			MW-16	
		Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Sep-07	Nov-07
SVOCs by EPA 8270C								
1,2,4-Trichlorobenzene	5	U	U	U	U	U	U	U
1,2-Dichlorobenzene	3	U	U	U	U	U	U	U
1,3 -Dichlorobenzene	3	U	U	U	U	U	U	U
1,4-Dichlorobenzene	3	U	U	U	U	U	U	U
2,2-oxybis (1-cholorpropane)		U	U	U	U	U	U	U
2,4,5-Trichlorophenol		U	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	U	U	U	U	U	U
2,4-Dichlorophenol	5	U	U	U	U	U	U	U
2,4-Dimethylphenol	50(G)	U	U	U	U	U	U	U
2,4-Dinitrophenol	10(G)	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5	U	U	U	U	U	U	U
2-Chloronaphthalene	10(G)	U	U	U	U	U	U	U
2-Chlorophenol		U	U	U	U	U	U	U
2-Methylnaphthalene		U	2.8 J	U	3.1 J	U	U	U
2-Methylphenol		U	U	U	U	U	U	U
2-Nitroaniline	5	U	U	U	U	U	U	U
2-Nitrophenol		U	U	U	U	U	U	U
3,3-Dichlorobenzidine	5	U	U	U	U	U	U	U
3-Nitroaniline	5	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	U	U	U	U	U	U
4-Bromophenyl phenyl ether		U	U	U	U	U	U	U
4-Chloro-3-methylphenol		U	U	U	U	U	U	U
4-Chloroaniline	5	U	U	U	U	U	U	U
4-Chlorophenyl phenyl ether		U	U	U	U	U	U	U
4-Methylphenol		U	U	U	U	U	U	U
4-Nitroaniline	5	U	U	U	U	U	U	U
4-Nitrophenol		U	U	U	U	U	U	U
Acenaphthene	20(G)	U	U	U	U	U	U	U
Acenaphthylene		U	U	U	U	U	U	U
Anthracene	50(G)	U	U	U	U	U	U	U
Benzo(a)anthracene	0.002(G)	U	U	U	U	U	U	U
Benzo(a)pyrene	ND	U	U	U	U	U	U	U
Benzo(b)fluoranthene	0.002(G)	U	U	U	U	U	U	U
Benzo(k)fluoranthene	0.002(G)	U	U	U	U	U	U	U
Benzyl alcohol		U	U	U	U	U	U	U
Bis (2-chloroethyl) ether	1	U	U	U	U	U	U	U
Bis(2-chloroethoxy)methane	5	U	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate	5	U	U	U	U	U	U	U
Butyl benzyl phthalate	50(G)	U	U	U	U	U	U	U
Carbazole		U	U	U	U	U	U	U
Chrysene	0.002(G)	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene		U	U	U	U	U	U	U
Dibenzofuran		U	U	U	U	U	U	U
Diethyl phthalate	50(G)	U	U	U	U	U	U	U
Dimethyl phthalate	50(G)	U	U	U	U	U	U	U
Di-n-butyl phthalate	50	U	U	U	U	U	U	U
Di-n-octyl phthalate	50(G)	U	U	U	U	U	U	U
Fluoranthene	50(G)	U	U	U	U	U	U	U
Fluorene	50(G)	U	U	U	U	U	U	U
Hexachlorobenzene	0.04	U	U	U	U	U	U	U
Hexachlorobutadiene	0.5	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5	U	U	U	U	U	U	U
Hexachloroethane	5	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)	U	U	U	U	U	U	U
Isophorone	50(G)	U	U	U	U	U	U	U
Naphthalene	10(G)	U	3.5 J	U	2.8 J	U	U	U
Nitrobenzene	0.4	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine		U	U	U	U	U	U	U
n-Nitrosodiphenylamine	50(G)	U	U	U	U	U	U	U
Pentachlorophenol	1	U	U	U	U	U	U	U
Phenanthrene	50(G)	U	U	U	U	U	U	U
Phenol	1	U	U	U	U	U	U	U
Pyrene	50(G)	U	U	U	U	U	U	U
TOTAL SVOCs		ND	6.3	ND	5.9	ND	ND	ND

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

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Analyte (µg/L)	TOGS[(1)] Class GA	Off-Site Monitoring Wells											
		MW-8			MW-9			MW-10			MW-11		
		Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C													
1,2,4-Trichlorobenzene	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
1,2-Dichlorobenzene	3	NS	U	U	U	NS	NS	U	U	U	U	U	U
1,3 -Dichlorobenzene	3	NS	U	U	U	NS	NS	U	U	U	U	U	U
1,4-Dichlorobenzene	3	NS	U	U	U	NS	NS	U	U	U	U	U	U
2,2-oxybis (1-cholorpropane)		NS	U	U	U	NS	NS	U	U	U	U	U	U
2,4,5-Trichlorophenol		NS	U	U	U	NS	NS	U	U	U	U	U	U
2,4,6-Trichlorophenol		NS	U	U	U	NS	NS	U	U	U	U	U	U
2,4-Dichlorophenol	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
2,4-Dimethylphenol	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
2,4-Dinitrophenol	10(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
2,4-Dinitrotoluene	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
2,6-Dinitrotoluene	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
2-Chloronaphthalene	10(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
2-Chlorophenol		NS	U	U	U	NS	NS	U	U	U	U	U	U
2-Methylnaphthalene		NS	U	U	U	NS	NS	U	U	U	U	U	U
2-Methylphenol		NS	U	U	U	NS	NS	U	U	U	U	U	U
2-Nitroaniline	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
2-Nitrophenol		NS	U	U	U	NS	NS	U	U	U	U	U	U
3,3-Dichlorobenzidine	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
3-Nitroaniline	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		NS	U	U	U	NS	NS	U	U	U	U	U	U
4-Bromophenyl phenyl ether		NS	U	U	U	NS	NS	U	U	U	U	U	U
4-Chloro-3-methylphenol		NS	U	U	U	NS	NS	U	U	U	U	U	U
4-Chloroaniline	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
4-Chlorophenyl phenyl ether		NS	U	U	U	NS	NS	U	U	U	U	U	U
4-Methylphenol		NS	U	U	U	NS	NS	U	U	U	U	U	U
4-Nitroaniline	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
4-Nitrophenol		NS	U	U	U	NS	NS	U	U	U	U	U	U
Acenaphthene	20(G)	NS	U	U	U	NS	NS	U	0.5 J	0.42 J	U	U	U
Acenaphthylene		NS	U	U	U	NS	NS	U	U	U	U	U	U
Anthracene	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Benzo(a)anthracene	0.002(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Benzo(a)pyrene	ND	NS	U	U	U	NS	NS	U	U	U	U	U	U
Benzo(b)fluoranthene	0.002(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Benzo(k)fluoranthene	0.002(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Benzyl alcohol		NS	U	U	U	NS	NS	U	U	U	U	U	U
Bis (2-chloroethyl) ether	1	NS	U	U	U	NS	NS	U	U	U	U	U	U
Bis(2-chloroethoxy)methane	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
Butyl benzyl phthalate	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Carbazole		NS	U	U	U	NS	NS	U	U	U	U	U	U
Chrysene	0.002(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Dibenzo(a,h)anthracene		NS	U	U	U	NS	NS	U	U	U	U	U	U
Dibenzofuran		NS	U	U	U	NS	NS	U	U	U	U	U	U
Diethyl phthalate	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Dimethyl phthalate	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Di-n-butyl phthalate	50	NS	U	U	U	NS	NS	U	U	U	U	U	U
Di-n-octyl phthalate	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Fluoranthene	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Fluorene	50(G)	NS	U	U	U	NS	NS	U	0.74 J	U	U	U	U
Hexachlorobenzene	0.04	NS	U	U	U	NS	NS	U	U	U	U	U	U
Hexachlorobutadiene	0.5	NS	U	U	U	NS	NS	U	U	U	U	U	U
Hexachlorocyclopentadiene	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
Hexachloroethane	5	NS	U	U	U	NS	NS	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Isophorone	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Naphthalene	10(G)	NS	U	U	U	NS	NS	9 J	**11**	**14**	U	U	U
Nitrobenzene	0.4	NS	U	U	U	NS	NS	U	U	U	U	U	U
n-Nitroso-di-n-propylamine		NS	U	U	U	NS	NS	U	U	U	U	U	U
n-Nitrosodiphenylamine	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Pentachlorophenol	1	NS	U	U	U	NS	NS	U	U	U	U	U	U
Phenanthrene	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Phenol	1	NS	U	U	U	NS	NS	U	U	U	U	U	U
Pyrene	50(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
TOTAL SVOCs		NS	ND	ND	ND	NS	NS	9	12.24	14.42	ND	ND	ND

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result < quantitation limit, but > zero. Reported concentration is an approximate value.

H Concentration is calculated by hand and is an approximation.

Table 6: (Page 8 of 12). Groundwater Sample Analytical Results. On-Site and Off-Site Groundwater Monitoring Wells. SWRNA, 2006 - 2009. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	Off-Site Monitoring Wells											
		MW-12			MW-13			MW-14			MW-15		
		Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07
SVOCs by EPA 8270C													
1,2,4-Trichlorobenzene	5	U	NS	NS	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	3	U	NS	NS	U	U	U	U	U	U	U	U	U
1,3 -Dichlorobenzene	3	U	NS	NS	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	3	U	NS	NS	U	U	U	U	U	U	U	U	U
2,2-oxybis (1-cholorpropane)		U	NS	NS	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol		U	NS	NS	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol		U	NS	NS	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5	U	NS	NS	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	10(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5	U	NS	NS	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5	U	NS	NS	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	10(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
2-Chlorophenol		U	NS	NS	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene		U	NS	NS	U	U	U	U	U	U	U	U	U
2-Methylphenol		U	NS	NS	U	U	U	U	U	U	U	U	U
2-Nitroaniline	5	U	NS	NS	U	U	U	U	U	U	U	U	U
2-Nitrophenol		U	NS	NS	U	U	U	U	U	U	U	U	U
3,3-Dichlorobenzidine	5	U	NS	NS	U	U	U	U	U	U	U	U	U
3-Nitroaniline	5	U	NS	NS	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol		U	NS	NS	U	U	U	U	U	U	U	U	U
4-Bromophenyl phenyl ether		U	NS	NS	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol		U	NS	NS	U	U	U	U	U	U	U	U	U
4-Chloroaniline	5	U	NS	NS	U	U	U	U	U	U	U	U	U
4-Chlorophenyl phenyl ether		U	NS	NS	U	U	U	U	U	U	U	U	U
4-Methylphenol		U	NS	NS	U	U	U	U	U	1.5 J	U	U	U
4-Nitroaniline	5	U	NS	NS	U	U	U	U	U	U	U	U	U
4-Nitrophenol		U	NS	NS	U	U	U	U	U	U	U	U	U
Acenaphthene	20(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Acenaphthylene		U	NS	NS	U	U	U	U	U	U	U	U	U
Anthracene	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	0.002(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	ND	U	NS	NS	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	0.002(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	0.002(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Benzyl alcohol		U	NS	NS	U	U	U	U	U	U	U	U	U
Bis (2-chloroethyl) ether	1	U	NS	NS	U	U	U	U	U	U	U	U	U
Bis(2-chloroethoxy)methane	5	U	NS	NS	U	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate	5	U	NS	NS	U	U	U	U	U	U	U	U	U
Butyl benzyl phthalate	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Carbazole		U	NS	NS	U	U	U	U	U	U	U	U	U
Chrysene	0.002(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene		U	NS	NS	U	U	U	U	U	U	U	U	U
Dibenzofuran		U	NS	NS	U	U	U	U	U	U	U	U	U
Diethyl phthalate	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Dimethyl phthalate	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Di-n-butyl phthalate	50	U	NS	NS	U	U	U	U	U	U	U	U	U
Di-n-octyl phthalate	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Fluoranthene	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Fluorene	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	0.04	U	NS	NS	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene	0.5	U	NS	NS	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5	U	NS	NS	U	U	U	U	U	U	U	U	U
Hexachloroethane	5	U	NS	NS	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.002(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Isophorone	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Naphthalene	10(G)	U	NS	NS	U	U	U	U	0.72 J	1.3 J	1 JH	U	U
Nitrobenzene	0.4	U	NS	NS	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine		U	NS	NS	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Pentachlorophenol	1	U	NS	NS	U	U	U	U	U	U	U	U	U
Phenanthrene	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
Phenol	1	U	NS	NS	U	U	U	U	U	U	U	U	U
Pyrene	50(G)	U	NS	NS	U	U	U	U	U	U	U	U	U
TOTAL SVOCs		ND	NS	NS	ND	ND	ND	ND	0.72	2.8	1	ND	ND

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result < quantitation limit, but > zero. Reported concentration is an approximate value.

H Concentration is calculated by hand and is an approximation.

Table 6: (Page 9 of 12). Groundwater Sample Analytical Results. On-Site and Off-Site Groundwater Monitoring Wells. SWRNA, 2006 - 2009. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[(1)] Class GA	On-Site Monitoring Wells								
		MW-2			MW-3			MW-4		
		Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07
Metals by EPA 6010B/7471A										
Aluminum		30,100	NS	NS	16,500	160 J	130 J	7,810	750	640
Antimony	3	U	NS	NS	U	U	U	U	U	U
Arsenic	25	**57.1**	NS	NS	22.6	U	U	14.3	7.8 J	9.1 J
Barium	1,000	318	NS	NS	266	120	130	173	200	210
Beryllium	3(G)	1.8	NS	NS	0.81	U	U	0.57 B	U	U
Cadmium	5	3.1	NS	NS	1	U	U	**51.2**	U	U
Calcium		245,000	NS	NS	252,000	136,000	126,000	183,000	115,000	122,000
Chromium	50	46.2	NS	NS	25.4	U	U	10.2	U	U
Cobalt		54.2	NS	NS	18.9	U	U	13.6	U	U
Copper	200	**270**	NS	NS	127	U	U	61.2	7.1 J	7.2 J
Iron	300	**90,800**	NS	NS	**40,700**	**2,000**	**2,800**	**25,100**	**8,300**	**9,700**
Lead	25	**70.7**	NS	NS	**39.2**	U	U	21.7	6.1 J	7.6 J
Magnesium	35,000 (G)	**104,000**	NS	NS	**79,800**	22,300	24,900	**50,500**	18,100	17,100
Manganese	300	**5,200**	NS	NS	**1,590**	220	270	**1,080**	**560**	**740**
Mercury	0.7	0.091	NS	NS	0.075 B	U		ND U	U	
Nickel	100	94.6	NS	NS	42.7	U	U	24.6	7.4 J	U
Potassium		7,260	NS	NS	9,150	3,100	2,800	3,700 N	4,300	5,400
Selenium	10	U	NS	NS	U	U	U	U	U	U
Silver	50	U	NS	NS	U	U	U	U	U	U
Sodium	20,000	**27,300**	NS	NS	**167,000**	**44,700**	**60,000**	**30,100**	**80,700**	**57,300**
Thallium	0.5(G)	**10.7**	NS	NS	U	**9 J**	U	U	**10 J**	U
Vanadium		62.2	NS	NS	32.9	U	U	15.7	1.6 J	U
Zinc	2,000(G)	463	NS	NS	212	U	U	117	16 J	U

Analyte (µg/L)	TOGS[(1)] Class GA	On-Site Monitoring Wells						
		MW-5		MW-6			MW-16	
		Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Sep-07	Nov-07
Metals by EPA 6010B/7471A								
Aluminum		91 J	U	21,700	750	610	280 J	210 J
Antimony	3	U	U	U	U	U	U	U
Arsenic	25	U	U	**38.4 B**	U	U	U	U
Barium	1,000	89	75	298	94	90	84	84
Beryllium	3(G)	U	U	1.4 B	U	U	U	U
Cadmium	5	U	U	**18.9**	U	U	U	U
Calcium		102,000	92,600	209,000	103,000	94,700	92,400	98,500
Chromium	50	U	U	35.1	U	U	U	U
Cobalt		U	U	33.1	U	U	U	U
Copper	200	U	U	167	5.1 J	5.4 J	8 J	U
Iron	300	**480**	**490**	**62,100**	**2,500**	**2,400**	**770**	**490**
Lead	25	U	U	**58.4**	U	U	U	U
Magnesium	35,000 (G)	19,300	17,500	**73,400**	19,400	17,500	18,200	19,500
Manganese	300	250	**360**	**2,560**	290	270	85	60
Mercury	0.7	U	U	0.089	U	U	U	U
Nickel	100	U	U	61.1	2 J	2.1 J	U	U
Potassium		2,100	1,700	6,620 N	2,200	2,100	2,100	1,900
Selenium	10	U	U	U	U	U	U	U
Silver	50	U	U	U	U	U	U	U
Sodium	20,000	**41,000**	**43,900**	**50,500**	**46,500**	**61,700**	**50,500**	**44,400**
Thallium	0.5(G)	**9.6 J**	U	U	U	U	**12 J**	U
Vanadium		U	U	44.4	2.2 J	1.1 J	U	U
Zinc	2,000(G)	U	U	340	13 J	13 J	U	U

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U The compound was not detected at the method detection level.

J Estimated value

NS Not sampled

Table 6: (Page 10 of 12). Groundwater Sample Analytical Results. On-Site and Off-Site Groundwater Monitoring Wells. SWRNA, 2006 - 2009. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS(1) Class GA	Off-Site Monitoring Wells											
		MW-8			MW-9			MW-10			MW-11		
		Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07
Metals by EPA 6010B/7471A													
Aluminum		NS	1,900	340 J	8,550	NS	NS	19,000	U	190 J	7,510	U	U
Antimony	3	NS	U	U	U	NS	NS	U	U	U	U	U	U
Arsenic	25	NS	U	U	19.6	NS	NS	**46.2**	U	U	17.6	U	U
Barium	1,000	NS	120	94	287	NS	NS	433	200	200	180	110	100
Beryllium	3(G)	NS	U	U	0.45	NS	NS	1.2	U	U	0.35	U	U
Cadmium	5	NS	U	U	U	NS	NS	0.8	U	U	U	U	U
Calcium		NS	103,000	85,800	202,000	NS	NS	250,000	93,700	89,800	151,000	101,000	87,700
Chromium	50	NS	2.2 J	U	11.2	NS	NS	28.0	U	U	10.5	U	U
Cobalt		NS	3.6 J	U	16.4	NS	NS	26.2	U	U	13.2	U	U
Copper	200	NS	14	U	82.5	NS	NS	**263**	U	U	72.8	U	U
Iron	300	NS	**5,300**	**900**	**26,700**	NS	NS	**66,900**	**8,500**	**9,100**	**23,300**	100 J	130 J
Lead	25	NS	U	U	19.8	NS	NS	**75.6**	U	U	**25.1**	U	U
Magnesium	35,000 (G)	NS	23,100	19,800	34,400	NS	NS	**56,000**	13,900	14,300	31,500	17,000	15,200
Manganese	300	NS	**410**	79	**3,220**	NS	NS	**1,920**	**460**	**460**	**1,820**	54	33
Mercury	0.7	NS	U		U	NS	NS	0.14	U		U	U	
Nickel	100	NS	5.6 J	U	24.8	NS	NS	57.5	U	U	24.6	U	U
Potassium		NS	2,000	1,400	4,800	NS	NS	7,370	2,900	2,600	4,010	2,100	1,600
Selenium	10	NS	U	U	U	NS	NS	U	U	U	U	U	U
Silver	50	NS	U	U	U	NS	NS	U	U	U	U	U	U
Sodium	20,000	NS	**40,400**	**36,700**	**64,400**	NS	NS	**91,700**	**78,600**	**55,200**	**48,200**	**74,500**	**57,400**
Thallium	0.5(G)	NS	U	U	U	NS	NS	U	U	U	U	U	U
Vanadium		NS	4 J	U	21	NS	NS	47.8	U	U	19.8	U	U
Zinc	2,000(G)	NS	31 J	U	145	NS	NS	444	U	U	153	U	U

Analyte (µg/L)	TOGS(1) Class GA	Off-Site Monitoring Wells											
		MW-12			MW-13			MW-14			MW-15		
		Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07	Oct-06	Sep-07	Nov-07
Metals by EPA 6010B/7471A													
Aluminum		69,400	NS	NS	82,900	170 J	320 J	40,400	250 J	190 J	71,100	1,500	360 J
Antimony	3	U	NS	NS	U	U	U	U	U		U	U	U
Arsenic	25	**159**	NS	NS	**172**	U	U	**89.7**	U		**197**	U	U
Barium	1,000	**1,090**	NS	NS	**1,550**	170	180	859	100	91	884	160	140
Beryllium	3(G)	**3.9**	NS	NS	**4.5**	U	U	2.6	U		**4.6**	U	U
Cadmium	5	U	NS	NS	U	U	U	2.1	U		U	U	U
Calcium		615,000	NS	NS	892,000	90,800	82,000	604,000	108,000	89,700	762,000	97,600	85,300
Chromium	50	**134**	NS	NS	**184**	U	U	**67.5**	U		**116**	2.2 J	U
Cobalt		108	NS	NS	116	U	U	77.5	U		112	2.2 J	U
Copper	200	**778**	NS	NS	**903**	U	U	**407**	U		**929**	12	U
Iron	300	**276,000**	NS	NS	**301,000**	**610**	**980**	**133,000**	**1,600**	**1,200**	**285,000**	**4,200**	**970**
Lead	25	**205**	NS	NS	**203**	U	U	**99.5**	U		**260**	U	U
Magnesium	35,000 (G)	**153,000**	NS	NS	**236,000**	18,800	17,300	**127,000**	20,100	18,400	**161,000**	18,900	18,500
Manganese	300	**9,960**	NS	NS	**7,520**	**400**	**430**	**8,040**	**450**	280	**13,000**	**580**	280
Mercury	0.7	0.47	NS	NS	0.49	U		0.18	U		0.21	U	
Nickel	100	**238**	NS	NS	**252**	U	U	**127**	U		**220**	2 J	U
Potassium		10,200	NS	NS	13,700	1,700	1,800	11,000 N	2,500	2,400	14,200	2,600	2,000
Selenium	10	U	NS	NS	U	U	U	U	U		U	U	U
Silver	50	U	NS	NS	U	U	U	U	U		U	U	U
Sodium	20,000	**80,900**	NS	NS	**62,800**	**30,900**	**46,200**	**67,200**	**45,100**	**46,600**	**80,900**	**36,700**	**36,300**
Thallium	0.5(G)	U	NS	NS	U	**11 J**	U	**14.9**	**10 J**		U	**13 J**	U
Vanadium		180	NS	NS	205	1.5 J	U	96.2	U		177	3.7 J	U
Zinc	2,000(G)	1,550	NS	NS	1,670	U	U	841	U		1,660	24 J	U

All compounds and standards are reported in µg/L

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - NYS Department of Environmental Conservation

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U The compound was not detected at the method detection level.

J Estimated value

NS Not sampled

Table 6: (Page 11 of 12). Groundwater Sample Analytical Results. On-Site and Off-Site Groundwater Monitoring Wells. SWRNA, 2006 - 2009. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (µg/L)	TOGS[1] Class GA	Onsite Monitoring Wells				Offsite Monitoring Wells						
		MW-2	MW-3	MW-4	MW-6	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15
PCBs by EPA 8082												
Aroclor 1016		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254		U	U	U	U	U	U	U	U	U	U	U
Aroclor 1260		U	U	U	U	U	U	U	U	U	U	U
TOTAL PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

All compounds and standards are reported in µg/L. Samples collected in October 2006

Bold Highlighted Cell - Exceeds applicable NYSDEC TOGS Class GA Standard

(1) Groundwater standards from Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards - New York State Department of Environmental Conservation

(2) Refers to the sum of all PCBs

(G) Signifies a NYSDEC Guidance Value where a standard has not been established.

U The compound was not detected at the method detection level.

B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

J Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration reported is an approximate value.

Table 6: (Page 12 of 12). Groundwater Sample Analytical Results. Bay 2 Sump Water. SWRNA, 2007. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (μg/L)	TOGS[(1)] Class GA	Bay 2 Sump Water*	
VOCs by Method 8260			
acetone	50 (G)	16	
benzene	1	0.68	J
methylene chloride	5	1.4	JB
tetrachlorethene	5	**24**	**JB**
toluene	5	4.3	J
trichloroethene	5	1.7	J
cis- 1,2-dichloroethene	5	**6.5**	
trans-1,2-dichloroethene	5	0.54	J
vinyl chloride	2	**2**	**J**
xylenes	5	**6.1**	
MTBE	10 (G)	2.9	J
SVOCs by EPA 8270			
anthracene	50 (G)	37	
bis(2-ethylhexyl)phthalate	5	2.9	J
butyl benzyl phthalate	50 (G)	0.92	J
diethyl phthalate	50 (G)	0.51	J
phenanthrene	50 (G)	0.45	J
pyrene	50 (G)	0.66	J
PCBs by EPA 8082			
1016			U
1221			U
1232			U
1242			U
1248			U
1252			U
1260			U
Total PCBs	0.09		

U - Not Detected

J- Estimated value, below detection limits

B - Compound detected in method blank

No other 8260 VOCs or 8270 SVOCs were detected in this water sample

* - Sample is of water that collected in the sump, not groundwater, water was containerized and transported off-site for proper disposal

Table 7: (Page 1 of 3). Remedial Investigation Soil Vapor Sample Analytical Results. Soil Vapor Wells Inside and Outside Building. SWRNA, 2006 - 2007. SMP. 47 Utica Street, Hamilton, New

Analyte ($\mu g/m^3$)	Sample Identification															
	Side Wide Soil Vapor Wells															
	SVW-1				SVW-2				SVW-3				SVW-4			
	10/4/2006		11/14/2007		10/4/2006		11/14/2007		10/4/2006		11/14/2007		10/4/2006		11/14/2007	
	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]
VOCs by TO-15																
1,1,1-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1,2-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trimethylbenzene	5.9		7.4		6.6		6.9		0.9		7		3.7		5.9	
1,2-Dibromoethane (ethylene dibromide)	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloropropane	ND		ND		ND		ND		ND		ND		ND		ND	
1,3,5-Trimethylbenzene	3.2		2.9		4.1		3.5		0.9		ND		2.2		2.8	
1,3-Butadiene	ND		ND		ND		ND		ND		ND		ND		ND	
1,3-dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	ND		4.6		ND		ND		ND		ND		ND		4	
1,4- Dioxane	ND		ND		ND		ND		ND		ND		ND		ND	
2,2,4-Trimethylpentane	ND		ND		ND		ND		ND		430	180	ND		9.1	
4-Ethyltoluene	1.9		0.95		2.8		0.75		ND		ND		1		0.65	J
Acetone	ND		ND		ND		ND		ND		ND		ND		ND	
Allyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	
Benzene	1.5		0.68		1.1		ND		0.84		ND		1		ND	
Benzyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	
Bromodichloromethane	ND		ND		ND		ND		ND		ND		ND		ND	
Bromoform	ND		ND		ND		ND		ND		ND		ND		ND	
Bromomethane (methyl bromide)	ND		ND		ND		ND		ND		ND		ND		ND	
Carbon disulfide	13	4.7	1.9		21	4.7	1.4		1.4		11	10	19	4.7	7.6	10
Carbon tetrachloride	ND		ND		ND		ND		0.77	J	ND		ND		ND	
Chlorobenzene	ND		ND		ND		ND		ND		7.8		ND		ND	
Chloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
Chloroform (trichloromethane)	ND		ND		ND		ND		ND		ND		0.55	J	ND	
Chloromethane (methyl chloride)	ND		ND		ND		ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene	ND		1.7		ND		0.81		ND		0.64		ND		1.2	
cis-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND	
Cyclohexane	1.4		ND		ND		ND		ND		ND		ND		ND	
Dibromochloromethane	ND		ND		ND		ND		ND		ND		ND		ND	
Ethyl acetate	ND		ND		ND		ND		ND		ND		ND		0.97	
Ethylbenzene	7.1		1.3		9.1		0.57	J	ND		5		2.6		2.2	
Freon 11	0.86		ND		3.1		1.3		2.2		1.1		4		ND	
Freon 113 trifluorotrichloroethane	ND		ND		1	J	ND		0.78		ND		ND		ND	
Freon 114	ND		ND		ND		ND		ND		ND		ND		ND	
Freon 12	ND		ND		4.4		2.6		3.7		ND		2.9		ND	
Heptane	2.7		ND		9.3		ND		0.46	J	62	10	3.4		ND	
Hexachloro-1,3-butadiene	ND		ND		ND		ND		ND		ND		ND		ND	
Hexane	ND		ND		5.6		ND		0.79		23	10	ND		ND	
Isopropyl alcohol	ND		ND		ND		ND		ND		ND		ND		ND	
m & p- Xylene	14		2.3		22	13	1.2	J	1.1	J	ND		7.5		1.8	
Methyl Butyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl Ethyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl Isobutyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl tert-butyl ether	ND		ND		ND		ND		ND		ND		ND		ND	
Methylene chloride	ND		ND		ND		0.6		ND		0.85		ND		1.3	
o-Xylene	3.0		1.1		6.1		0.57	J	0.4	J	ND		2.4		0.79	
Propylene	ND		ND		ND		ND		ND		ND		ND		ND	
Styrene	ND		ND		0.95		ND		ND		ND		0.78		0.69	
Tetrachloroethylene	2.5		0.97	J	ND		ND		ND		ND		12		1.2	
Tetrahydrofuran	ND		ND		ND		ND		ND		ND		ND		ND	
Toluene	4700		4.7		2900		0.84		15	5.7	ND		1800		9.6	
trans-1,2-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND	
trans-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND	
Trichloroethene	0.6		ND		ND		3.2		0.76	J	ND		ND		6.6	
Vinyl acetate	ND		ND		ND		ND		ND		ND		ND		ND	
Vinyl bromide	ND		ND		ND		ND		ND		ND		ND		ND	
Vinyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	

RESULT = Results reported by laboratory

QL= Quantitation limit

DF[a] = Dilution Factor of 1x except where a number appears.

E = Value above quantitation range

J = Analyte detected at or below quantitation limits

ND = Analyte non-detectable

Table 7: (Page 2 of 3). Remedial Investigation Soil Vapor Sample Analytical Results. Soil Vapor Wells Inside and Outside Building. SWRNA, 2006 - 2007. SMP. 47 Utica Street, Hamilton, New

Analyte ($\mu g/m^3$)	Sample Identification															
	Side Wide Soil Vapor Wells															
	SVW-5				SVW-6				SVW-7				SVW-11		SVW-12	
	10/4/2006		11/14/2007		10/4/2006		11/14/2007		11/14/2007		11/14/2007		11/14/2007		11/14/2007	
	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]
VOCs by TO-15																
1,1,1-Trichloroethane	ND		ND		85	8.3	78	40	1.6		1.2		0.83		140	20
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1,2-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trimethylbenzene	4.2		4.5		4.2		5.4		3.9		5.1		9		1.2	
1,2-Dibromoethane (ethylene dibromide)	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloropropane	ND		ND		ND		ND		ND		ND		ND		ND	
1,3,5-Trimethylbenzene	2		2.9		2.5		2.5		1.9		2.5		5.8		2.3	
1,3-Butadiene	ND		ND		ND		ND		ND		ND		ND		ND	
1,3-dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	ND		ND		ND		3.4		ND		4.5		3.7		2.4	
1,4- Dioxane	ND		ND		ND		ND		ND		ND		ND		ND	
2,2,4-Trimethylpentane	ND		4.9		1.5		ND		2.7		ND		ND		ND	
4-Ethyltoluene	0.9		ND		1.1		0.6	J	1		0.6	J	3.1		0.6	J
Acetone	ND		ND		ND		73	40	ND		84	20	38	20	ND	
Allyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	
Benzene	ND		ND		2.6		ND		3.1		ND		ND		ND	
Benzyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	
Bromodichloromethane	ND		ND		ND		ND		ND		ND		ND		ND	
Bromoform	ND		ND		ND		ND		ND		ND		ND		ND	
Bromomethane (methyl bromide)	ND		ND		ND		ND		ND		ND		ND		ND	
Carbon disulfide	3.7		1.8		23	4.7	1.6		13	4.7	2.8		0.76		ND	
Carbon tetrachloride	ND		ND		ND		ND		ND		ND		ND		ND	
Chlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND	
Chloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
Chloroform (trichloromethane)	ND		ND		ND		ND		0.94		ND		ND		ND	
Chloromethane (methyl chloride)	ND		ND		ND		ND		1		ND		ND		ND	
cis-1,2-Dichloroethene	ND		0.52	J	ND		1.3		ND		1.3		0.73		ND	
cis-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND	
Cyclohexane	ND		0.63		ND		ND		ND		ND		ND		ND	
Dibromochloromethane	ND		ND		ND		ND		ND		ND		ND		ND	
Ethyl acetate	ND		ND		ND		ND		ND		ND		ND		ND	
Ethylbenzene	2.1		0.66		4.8		0.84		2.8		0.79		66	20	0.75	
Freon 11	2.1		1.3		3.3		1.5		1.1		ND		1.1		ND	
Freon 113 trifluorotrichloroethane	ND		ND		ND		ND		ND		ND		ND		ND	
Freon 114	ND		ND		ND		ND		ND		1.9		ND		ND	
Freon 12	3.6		2.5		3.5		2.6		3.3		1.5		2.4		ND	
Heptane	ND		ND		9.7		ND		11	6.2	ND		ND		ND	
Hexachloro-1,3-butadiene	ND		ND		ND		ND		ND		ND		ND		ND	
Hexane	ND		ND		ND		ND		15	5.4	ND		ND		ND	
Isopropyl alcohol	ND		ND		ND		ND		ND		ND		ND		ND	
m & p- Xylene	8		1.2	J	10		1.5		7.5		1.4		380	20	1.8	
Methyl Butyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl Ethyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl Isobutyl Ketone	ND		ND		ND		ND		ND		ND		ND		ND	
Methyl tert-butyl ether	ND		ND		ND		ND		ND		ND		ND		ND	
Methylene chloride	ND		ND		ND		0.99		ND		1		ND		ND	
o-Xylene	4.0		ND		2.6		0.71		2.5		0.66		120	20	0.71	
Propylene	ND		ND		ND		ND		ND		ND		ND		ND	
Styrene	ND		ND		0.48	J	0.56	J	0.48	J	0.65		ND		ND	
Tetrachloroethylene	14		3.9		350	41	500	40	13		0.76	J	84	20	260	20
Tetrahydrofuran	ND		ND		ND		ND		ND		ND		ND		ND	
Toluene	700		0.77		9300	380	0.69		750		1.3		0.77		1.2	
trans-1,2-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND	
trans-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND	
Trichloroethene	ND		2.3		0.55	J	5.7		ND		6.4		2.5		3.3	
Vinyl acetate	ND		ND		ND		ND		ND		ND		ND		ND	
Vinyl bromide	ND		ND		ND		ND		ND		ND		ND		ND	
Vinyl chloride	ND		ND		ND		ND		ND		ND		ND		ND	

RESULT = Results reported by laboratory

QL= Quantitation limit

DF[a] = Dilution Factor of 1x except where a number appears.

E = Value above quantitation range

J = Analyte detected at or below quantitation limits

ND = Analyte non-detectable

Table 7: (Page 3 of 3). Remedial Investigation Soil Vapor Sample Analytical Results. Soil Vapor Wells Inside and Outside Building. SWRNA, 2006 - 2007. SMP. 47 Utica Street, Hamilton, New

Analyte ($\mu g/m^3$)	Sample Identification							
	Sub-Slab Soil Vapor Wells							
	SSV-8		SSV-9		SSV-10		SVW-13	
	10/4/2006		10/4/2006		10/4/2006		11/14/2007	
	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]	RESULT	DF[a]
VOCs by TO-15								
1,1,1-Trichloroethane	0.83		0.72	J	1.3		26	5
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND	
1,1,2-Trichloroethane	ND		ND		ND		ND	
1,1-Dichloroethane	ND		ND		ND		ND	
1,1-Dichloroethene	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	ND		ND		ND		ND	
1,2,4-Trimethylbenzene	3		4.7		3.4		4.7	
1,2-Dibromoethane (ethylene dibromide)	ND		ND		ND		ND	
1,2-Dichlorobenzene	ND		ND		ND		ND	
1,2-Dichloroethane	ND		ND		ND		ND	
1,2-Dichloropropane	ND		ND		ND		ND	
1,3,5-Trimethylbenzene	2.5		2.6		1.8		3.1	
1,3-Butadiene	ND		ND		ND		ND	
1,3-dichlorobenzene	ND		ND		ND		ND	
1,4-Dichlorobenzene	ND		ND		ND		2.5	
1,4- Dioxane	ND		ND		ND		ND	
2,2,4-Trimethylpentane	4.1		1.9		2.9		0.66	J
4-Ethyltoluene	0.85		1		0.95		ND	
Acetone	ND		ND		ND		ND	
Allyl chloride	ND		ND		ND		ND	
Benzene	9.1	4.9	2.2		10	4.9	ND	
Benzyl chloride	ND		ND		ND		ND	
Bromodichloromethane	ND		ND		ND		ND	
Bromoform	ND		ND		ND		ND	
Bromomethane (methyl bromide)	ND		ND		ND		ND	
Carbon disulfide	20	4.7	1.8		2.8		1.7	
Carbon tetrachloride	ND		ND		ND		ND	
Chlorobenzene	ND		ND		ND		ND	
Chloroethane	ND		ND		ND		ND	
Chloroform (trichloromethane)	0.84		1.1		ND		ND	
Chloromethane (methyl chloride)	ND		ND		ND		ND	
cis-1,2-Dichloroethene	ND		ND		0.64		ND	
cis-1,3-Dichloropropene	ND		ND		ND		ND	
Cyclohexane	20	5.2	3.5		11	5.2	ND	
Dibromochloromethane	ND		ND		ND		ND	
Ethyl acetate	ND		ND		ND		ND	
Ethylbenzene	1.1		1.2		2.1		0.75	
Freon 11	1.9		2.3		2.1		1.8	
Freon 113 trifluorotrichloroethane	ND		ND		ND		ND	
Freon 114	ND		ND		ND		9.2	
Freon 12	3.6		3.8		3.9		2.9	
Heptane	17		7		23	6.2	ND	
Hexachloro-1,3-butadiene	ND		ND		ND		ND	
Hexane	34	5.4	7.4		29	5.4	ND	
Isopropyl alcohol	ND		ND		ND		ND	
m & p- Xylene	7.9		7		9.7		1.8	
Methyl Butyl Ketone	ND		ND		ND		ND	
Methyl Ethyl Ketone	ND		ND		ND		ND	
Methyl Isobutyl Ketone	ND		ND		ND		ND	
Methyl tert-butyl ether	12	5.5	ND		10	5.5	ND	
Methylene chloride	19	5.3	2.9		2.6		ND	
o-Xylene	3.0		2.7		3.5		1	
Propylene	ND		ND		ND		ND	
Styrene	ND		ND		ND		ND	
Tetrachloroethylene	2.1		15		2.5		400	40
Tetrahydrofuran	ND		ND		ND		ND	
Toluene	17	5.7	8.4	0.6	19	5.7	1	
trans-1,2-Dichloroethene	ND		ND		ND		ND	
trans-1,3-Dichloropropene	ND		ND		ND		ND	
Trichloroethene	0.6	J	0.66	J	2.3		1.6	
Vinyl acetate	ND		ND		ND		ND	
Vinyl bromide	ND		ND		ND		ND	
Vinyl chloride	ND		ND		ND		ND	

RESULT = Results reported by laboratory

QL= Quantitation limit

DF[a] = Dilution Factor of 1x except where a number appears.

E = Value above quantitation range

J = Analyte detected at or below quantitation limits

ND = Analyte non-detectable

Table 8: (Page 1 of 4) Soil Cleanup Objectives for Commercial Use.

Analyte (mg/kg)	**Soil Cleanup Objectives (Commercial Use)**
METALS	
Aluminum	
Antimony	
Arsenic	16
Barium	400
Beryllium	590
Boron	
Cadmium	9.3
Calcium	
Chromium (hexavalent)	400
Chromium (trivalent)	1,500
Cobalt	
Copper	270
Cyanide (total)	27
Iron	
Lead	1,000
Lithium	
Manganese	10,000
Mercury (total)	2.8
Molybdenum	
Nickel	310
Selenium	1,500
Silver	1,500
Technetium	
Thallium	
Tin	
Uranium	
Vanadium	
Zinc	10,000

Soil Cleanup Objectives from Subpart 375-6 (December 2006) and CP-51 (October 2010)

All values reported as mg/kg (parts per million)

Table 8: (Page 2 of 4) Soil Cleanup Objectives for Commercial Use.

Analyte (mg/kg)	**Soil Cleanup Objectives (Commercial Use)**
PCBs and PESTICIDES	
2,3,7,8-TCDD	
2,3,7,8-TCDF	
2,4,5-T	
2,4,5-TP Acid (Silvex)	500
2,4-D (2,4-Dichloro-phenoxyacetic acid)	
4,4'-DDD	92
4,4'-DDE	62
4,4'-DDT	47
Aldrin	0.68
alpha-BHC	3.4
beta-BHC	3
Biphenyl	
Chlordane (alpha)	24
Chlordecone (Kepone)	
delta-BHC	500
Dibenzofuran	350
Dibenzofuran	
Dieldrin	1.4
Endosulfan I	200
Endosulfan II	200
Endosulfan sulfate	200
Endrin	89
Furan	
Gamma Chlordane	
Heptachlor	15
Heptachlor Epoxide	
Lindane	9.2
Methoxychlor	
Parathion	
Polychlorinated biphenyls (PCBs)	1

Soil Cleanup Objectives from Subpart 375-6 (December 2006) and CP-51 (October 2010)

All values reported as mg/kg (parts per million)

Table 8: (Page 3 of 4) Soil Cleanup Objectives for Commercial Use.

Analyte (mg/kg)	Soil Cleanup Objectives (Commercial Use)
SVOCs	
1,2,3,6,7,8-HCDF	
2,3,4,5-Tetrachlorophenol	
2,3,5,6-Tetrachloroaniline	
2,4,5-Trichloroaniline	
2,4,5-Trichlorophenol	
2,4,6-Trichlorophenol	
2,4-Dichlorophenol	
2,4-Dinitrophenol	
2,6-Dinitrotoluene	
2-Chlorophenol	
2-methyl-naphthalene	
2-Nitroaniline	
2-Nitrophenol	
3,4-Dichlorophenol	
3-Chloroaniline	
3-Chlorophenol	
3-Nitroaniline	
4-Chloroaniline	
4-methyl-2-pentanone	
4-Nitrophenol	
Acenaphthene	500
Acenapthylene	500
Aniline	500
Anthracene	500
Benzo(a)anthracene	5.6
Benzo(a)pyrene	1
Benzo(b)fluoranthene	5.6
Benzo(g,h,i)perylene	500
Benzo(k)fluoranthene	56
Benzoic Acid	
Bis(2-ethylhexyl) phthalate	
Butylbenzyl-phthalate	
Chloroethane	
Chrysene	56
Dibenz(a,h)anthracene	0.56
Diethylphthalate	
Dimethylphthalate	
Di-n-butyl-phthalate	
Di-n-hexyl-phthalate	
Di-n-octylphthalte	
Fluoranthene	500
Fluorene	500
Hexachloro-benzene	
Indeno(1,2,3-cd)pyrene	5.6
Isophorone	
m-Cresol (3-methylphenol)	500
Naphthalene	500
Nitrobenzene	69
o-Cresol (2-methylphenol)	500
p-Cresol (4-methylphenol)	500
Pentachloroaniline	
Pentachlorophenol	6.7
Phenanthrene	500
Phenol	500
Pyrene	500

Soil Cleanup Objectives from Subpart 375-6 (December 2006) and CP-51 (October 2010)

All values reported as mg/kg (parts per million)

Table 8: (Page 4 of 4) Soil Cleanup Objectives for Commercial Use.

Analyte (mg/kg)	Soil Cleanup Objectives (Commercial Use)
VOCs	
1,1,1-Trichloroethane	500
1,1,2,2-Tetrachloroethane	
1,1,2,2-Tetrachloroethylene	
1,1-Dichloroethane	240
1,1-Dichloroethene	500
1,2,3,4-Tetrachlorobenzene	
1,2,3-Trichlorobenzene	
1,2,3-Trichloropropane	
1,2,4-Trichlorobenzene	
1,2,4-Trimethylbenzene	190
1,2-Dichlorobenzene	500
1,2-Dichloroethane	30
1,2-Dichloropropane	
1,3,5-Trimethylbenzene	190
1,3-Dichlorobenzene	280
1,3-Dichloropropane	
1,4-Dichlorobenzene	130
1,4-Dioxane	130
113 Freon (1,1,2-TFE)	
2,4-Dichloroaniline	
2,6-Dinitrotoluene	
2-Butanone (methyl ethyl ketone)	500
2-Butanone (methyl ethyl ketone)	
3,4-Dichloroaniline	
4-methyl-2-pentanone	
Acetone	500
Benzene	44
Butylbenzene	500
Carbon Disulfide	
Carbon tetrachloride	22
Chloroacetamide	
Chlorobenzene	500
Chloroform	350
cis-1,2-Dichloroethene	500
Dibromochloromethane	
Ethylacetate	
Ethylbenzene	390
Hexachlorobenzene	6
Hexachlorocyclopentadiene	
isopropylbenzene	
Methanol	
Methyl tert-butyl ether (MTBE)	500
Methylene chloride	500
N-nitrosodiphenylamine	
n-Propylbenzene	500
Pentachlorobenzene	
Pentachloronitrobenzene	
p-isopropyltoluene	
sec-Butylbenzene	500
Styrene	
tert-Butylbenzene	500
Tetrachloroethene	150
Toluene	500
trans-1,2-Dichloroethene	500
Trichloroethene	200
Vinyl chloride	13
Xylene (mixed)	500

Soil Cleanup Objectives from Subpart 375-6 (December 2006) and CP-51 (October 2010)

All values reported as mg/kg (parts per million)

Table 9: (Page 1 of 5). Interim Remedial Measure-2 Soil Sample Analytical Results. Excavation End-Point and Surface Soil Sampling. SWRNA, 2007. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Identification										
	Unrestricted Use	Commercial Use	SURFACE SOIL (SS-1N) North Sidewall	SURFACE SOIL (SS-1S) South Sidewall	SURFACE SOIL (SS-1E) East Sidewall	SURFACE SOIL (SS-1W) West Sidewall	SURFACE SOIL (SS-1B) Bottom	SURFACE SOIL (SS-2N) North Sidewall	SURFACE SOIL (SS-2S) South Sidewall	SURFACE SOIL (SS-2E) East Sidewall	SURFACE SOIL (SS-2W) West Sidewall	SURFACE SOIL (SS-2B) Bottom	BAY 3 (B3) SUMP*
Metals by EPA 6010B													
Aluminum			6,570	5,600	4,870	5,850	8,760	7,310	8,000	7,670	6,610	8,010	6,740
Antimony			U	U	U	U	U	U	U	U	U	U	U
Arsenic	13	16	7.5 J	6.7 J	7 J	7.5 J	9.1 J	9.8	9.7 J	9.3 J	8.1 J	10.4	5.5 J
Barium	350	400	50.9	50.5	61.9	73.3	57.8	122	135	96.3	80.7	91.6	50.5
Beryllium	7.2	590	U	U	U	U	U	U	U	U	U	U	U
Cadmium	2.5	9.3	U	1.1 J	1.4 J	1.5 J	U	1.5 J	1.7 J	1.7 J	2.2 J	1.6 J	1.1 J
Calcium			114,000	117,000	120,000	103,000	41,300	48,200	63,600	35,900	83,700	85,100	70,500
Chromium	30	1,500	11.4	12	11.2	13.8	13	13.7	17.2	15.2	12.7	15.5	12.6
Cobalt			5.7	5.3	5.1	5.7	7.8	7.1	6.9	7.8	6	6.6	6.6
Copper	50	270	30.2	32.3	44.7	39.8	35.2	**56.8**	**65.9**	**70.9**	37.9	45.8	21.3
Iron			16,400	16,000	18,700	18,100	20,900	18,200	20,300	23,600	16,300	19,200	16,700
Lead	63	1,000	**67.9**	**171**	**82.8**	**267**	**70.2**	**337**	**530**	**379**	**233**	**312**	**87.9**
Magnesium			11,200	16,600	22,500	9,710	10,300	9,760	9,500	10,600	36,300	42,100	6,950
Manganese	1,600	10,000	649	534	520	534	764	721	727	681	607	632	353
Nickel	30	310	15.4	15.8	17	16.9	18.8	17.5	18.4	19	14.4	16.7	17.1
Potassium			796	758	734	818	852	885	970	848	1,020	1,020	931
Selenium	3.9	1,500	U	U	U	U	U	U	U	U	U	U	U
Silver	2	1,500	U	U	U	U	U	0.35 J	0.52 J	0.4 J	U	U	U
Sodium			124	153 J	156 J	136 J	80.6 J	95.4 J	107 J	80.8 J	210 J	167 J	141 J
Thallium			U	U	U	U	U	17.7 U	U	U	U	U	U
Vanadium			13.3	13.6	15.9	14.7	17	17.9	20	18.3	15.5	18	12
Zinc	109	10,000	**109**	**142**	**110**	**279**	**124**	**686**	**1,040**	**1,050**	**376**	**590**	**137**
Mercury by EPA 7471A													
Mercury	0.18	2.8		0.11	0.073	**0.25**	0.09	**0.5**	**0.46**	**0.42**	**0.89**	**0.61**	**0.3**

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

J Data indicate the presence of a compound that meets the identification criteria. The result is < quantitation limit, but > zero. Reported concentration is an approximate value.

* - sample was collected from sediment in floor drain sumps, all material was containerized and transported off-Site for proper disposal

Table 9: (Page 2 of 5). Interim Remedial Measure-2 Soil Sample Analytical Results. Excavation End-Point and Surface Soil Sampling. SWRNA, 2007. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Identification									
	Unrestricted Use	Commercial Use	PUMP ISLAND (PI - 1N) North Sidewall	PUMP ISLAND (PI-2E) East Sidewall	PUMP ISLAND (PI-3W) West Sidewall	PUMP ISLAND (PI-4S) South Sidewall	PUMP ISLAND (PI-5B) Bottom	SURFACE SOIL (SS-1N) North Sidewall	SURFACE SOIL (SS-1S) South Sidewall	SURFACE SOIL (SS-1E) East Sidewall	SURFACE SOIL (SS-1W) West Sidewall	SURFACE SOIL (SS-1B) Bottom
VOCs by EPA 8260B												
Chloromethane			U	U	U	U	U	U	U	U	U	U
Vinyl chloride	0.02	500	U	U	U	U	U	U	U	U	U	U
Bromomethane			U	U	U	U	U	U	U	U	U	U
Chloroethane			U	U	U	U	U	U	U	U	U	U
1 1-Dichloroethene	0.33	500	U	U	U	U	U	U	U	U	U	U
Carbon disulfide			U	U	U	U	U	U	U	U	U	U
Acetone	0.05	500	**0.18 JB**	**0.2 JB**	U	**0.16 JB**	U	**0.19 JB**	U	U	U	**0.16 JB**
Methylene chloride	0.05	500	**0.065 JB**	U	**0.059 JB**	**0.057 JB**	U	**0.053 JB**	**0.082 JB**	**0.068 JB**	**0.13 JB**	**0.15 JB**
trans-1 2-Dichloroethene	0.19	500	U	U	U	U	U	U	U	U	U	U
1 1-Dichloroethane	0.027	240	U	U	U	U	U	U	U	U	U	U
cis-1 2-Dichloroethene	0.25	500	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	0.12	500	U	U	U	U	U	U	U	U	U	U
Chloroform	0.37	350	U	U	U	U	U	U	U	U	U	U
1 1 1-Trichloroethane	0.68	500	U	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	0.76	22	U	U	U	U	U	U	U	U	U	U
Benzene	0.06	44	U	U	U	U	U	U	U	U	U	U
1 2-Dichloroethane	0.02	30	U	U	U	U	U	U	U	U	U	U
Trichloroethene	0.47	200	U	U	U	U	U	U	U	U	U	U
1 2-Dichloropropane			U	U	U	U	U	U	U	U	U	U
Bromodichloromethane			U	U	U	U	U	U	U	U	U	U
cis-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)			U	U	U	U	U	U	U	U	U	U
Toluene	0.7	500	U	U	U	U	U	U	U	U	U	U
trans-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U	U
1 1 2-Trichloroethane			U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	0.47	200	U	U	U	U	U	U	U	U	U	U
2-Hexanone			U	U	U	U	U	U	U	U	U	U
Dibromochloromethane			U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	1	390	U	U	U	U	U	U	U	U	U	U
Styrene			U	U	U	U	U	U	U	U	U	U
Bromoform			U	U	U	U	U	U	U	U	U	U
1 1 2 2-Tetrachloroethane			U	U	U	U	U	U	U	U	U	U
Xylenes (total)	0.26	500	U	U	U	U	U	U	U	U	U	U
MTBE	0.93	500	U	U	U	U	U	U	U	U	U	U
Total VOCs			0.245	0.2	0.059	0.217	ND	0.243	0.082	0.068	0.13	0.31

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U - Not Detected

J- Estimated value, below detection limits

B - Compound detected in method blank

NA - Compound not analyzed for

M - Manually integrated compound

Table 9: (Page 3 of 5). Interim Remedial Measure-2 Soil Sample Analytical Results. Excavation End-Point and Surface Soil Sampling. SWRNA, 2007. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Identification								
	Unrestricted Use	Commercial Use	SURFACE SOIL (SS-2N) North Sidewall	SURFACE SOIL (SS-2S) South Sidewall	SURFACE SOIL (SS-2E) East Sidewall	SURFACE SOIL (SS-2W) West Sidewall	SURFACE SOIL (SS-2B) Bottom	BAY 2 DRAIN (B-2) SEDIMENT*	BAY 3 (B3) SUMP*	HYDRAULIC LIFT (H1 SIDEWALL)	HYDRAULIC LIFT (H2 BOTTOM)
VOCs by EPA 8260B											
Chloromethane			U	U	U	U	U	U	U	U	U
Vinyl chloride	0.02	500	U	U	U	U	U	U	U	U	U
Bromomethane			U	U	U	U	U	U	U	U	U
Chloroethane			U	U	U	U	U	U	U	U	U
1 1-Dichloroethene	0.33	500	U	U	U	U	U	U	U	U	U
Carbon disulfide			U	U	U	U	U	U	U	U	U
Acetone	0.05	500	U	U	U	U	U	U	**0.25 JB**	U	U
Methylene chloride	0.05	500	0.0024 JB	0.0027 JB	0.0023 JB	0.0031 JB	0.0046 JB	U	**0.092 JB**	0.0027 JB	0.0035 JB
trans-1 2-Dichloroethene	0.19	500	U	U	U	U	U	U	U	U	U
1 1-Dichloroethane	0.027	240	U	U	U	U	U	U	U	U	U
cis-1 2-Dichloroethene	0.25	500	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	0.12	500	U	U	U	U	U	U	U	U	U
Chloroform	0.37	350	U	U	U	U	U	U	U	U	U
1 1 1-Trichloroethane	0.68	500	U	U	U	U	U	U	U	U	U
Carbon tetrachloride	0.76	22	U	U	U	U	U	U	U	U	U
Benzene	0.06	44	U	U	U	U	U	U	U	U	U
1 2-Dichloroethane	0.02	30	U	U	U	U	U	U	U	U	U
Trichloroethene	0.47	200	U	U	U	U	U	U	U	U	U
1 2-Dichloropropane			U	U	U	U	U	U	U	U	U
Bromodichloromethane			U	U	U	U	U	U	U	U	U
cis-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MIBK)			U	U	U	U	U	5.3	U	U	U
Toluene	0.7	500	U	U	U	U	U	**4**	U	U	U
trans-1 3-Dichloropropene			U	U	U	U	U	U	U	U	U
1 1 2-Trichloroethane			U	U	U	U	U	U	U	U	U
Tetrachloroethene	0.47	200	U	U	U	U	U	U	0.13 J	U	U
2-Hexanone			U	U	U	U	U	U	U	U	U
Dibromochloromethane			U	U	U	U	U	U	U	U	U
Chlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U
Ethylbenzene	1	390	U	U	U	U	U	**3.1**	U	U	U
Styrene			U	U	U	U	U	U	U	U	U
Bromoform			U	U	U	U	U	U	U	U	U
1 1 2 2-Tetrachloroethane			U	U	U	U	U	U	U	U	U
Xylenes (total)	0.26	500	U	U	U	U	U	**28**	U	U	U
MTBE	0.93	500	U	U	U	U	U	0.16 J	U	U	U
Total VOCs			0.0024	0.0027	0.0023	0.0031	0.0046	40.56	0.472	0.0027	0.0035

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

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Table 9: (Page 4 of 5). Interim Remedial Measure-2 Soil Sample Analytical Results. Excavation End-Point and Surface Soil Sampling. SWRNA, 2007. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Identification									
	Unrestricted Use	Commercial Use	PUMP ISLAND (PI - 1N) North Sidewall	PUMP ISLAND (PI-2E) East Sidewall	PUMP ISLAND (PI-3W) West Sidewall	PUMP ISLAND (PI-4S) South Sidewall	PUMP ISLAND (PI-5B) Bottom	SURFACE SOIL (SS-1N) North Sidewall	SURFACE SOIL (SS-1S) South Sidewall	SURFACE SOIL (SS-1E) East Sidewall	SURFACE SOIL (SS-1W) West Sidewall	SURFACE SOIL (SS-1B) Bottom
SVOCs by EPA 8270C												
Phenol	0.33	500	U	0.072 J	U	U	U	U	U	U	U	U
Bis(2-chloroethyl)ether			U	U	U	U	U	U	U	U	U	U
1 3-Dichlorobenzene	2.4	280	U	U	U	U	U	U	U	U	U	U
1 4-Dichlorobenzene	1.8	130	U	U	U	U	U	U	U	U	U	U
1 2-Dichlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U	U
Benzyl alcohol			U	U	U	U	U	U	U	U	U	U
2-Methylphenol	0.33	500	U	U	U	U	U	U	U	U	U	U
2 2-oxybis (1-chloropropane)			U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine			U	U	U	U	U	U	U	U	U	U
Hexachloroethane			U	U	U	U	U	U	U	U	U	U
4-Methylphenol	0.33	500	U	0.1 J	U	U	U	U	U	U	U	U
2-Chlorophenol			U	U	U	U	U	U	U	U	U	U
Nitrobenzene		69	U	U	U	U	U	U	U	U	U	U
Bis(2-chloroethoxy)methane			U	U	U	U	U	U	U	U	U	U
1 2 4-Trichlorobenzene			U	U	U	U	U	U	U	U	U	U
Isophorone			U	U	U	U	U	U	U	U	U	U
2 4-Dimethylphenol			U	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene			U	U	U	U	U	U	U	U	U	U
Naphthalene	12	500	0.071 J	0.059 J	0.077 J	U	0.064 J	U	U	U	U	U
2 4-Dichlorophenol			U	U	U	U	U	U	U	U	U	U
4-Chloroaniline			U	U	U	U	U	U	U	U	U	U
2 4 6-Trichlorophenol			U	U	U	U	U	U	U	U	U	U
2 4 5-Trichlorophenol			U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene			U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene			U	U	U	U	U	U	U	U	U	U
2-Nitroaniline			U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene			U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol			U	U	U	U	U	U	U	U	U	U
2 6-Dinitrotoluene			U	U	U	U	U	U	U	U	U	U
2-Nitrophenol			U	U	U	U	U	U	U	U	U	U
3-Nitroaniline			U	U	U	U	U	U	U	U	U	U
Dimethyl phthalate			U	U	U	U	U	U	U	U	U	U
2 4-Dinitrophenol			U	U	U	U	U	U	U	U	U	U
Acenaphthylene	100	500	U	0.36 J	U	U	U	0.2 J	0.29 J	0.32 J	0.8	0.17 J
2 4-Dinitrotoluene			U	U	U	U	U	U	U	U	U	U
Acenaphthene	20	500	U	U	U	U	U	U	U	U	U	U
Dibenzofuran			U	U	U	U	U	U	U	U	U	U
4-Nitrophenol			U	U	U	U	U	U	U	U	U	U
Fluorene	30	500	U	0.069 J	U	U	U	U	U	U	0.1 J	U
4-Nitroaniline			U	U	U	U	U	U	U	U	U	U
4-Bromophenyl phenyl ether			U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene			U	U	U	U	U	U	U	U	U	U
Diethyl phthalate			U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl phenyl ether			U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	0.8	6.7	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine			U	U	U	U	U	U	U	U	U	U
4 6-Dinitro-2-methylphenol			U	U	U	U	U	U	U	U	U	U
Phenanthrene	100	500	U	0.79	U	U	U	0.21 J	0.22 J	0.19 J	0.46	0.14 J
Anthracene	100	500	U	0.41	U	U	U	0.14 J	0.18 J	0.18 J	0.38	U
Carbazole			U	0.072 J	U	U	U	U	U	U	0.083 J	U
Di-n-butyl phthalate			U	U	U	U	U	U	U	U	U	U
Fluoranthene	100	500	U	1.2	U	U	U	0.57	0.65	1.1	1.2	0.41 J
Pyrene	100	500	U	1.2	U	U	U	0.61	0.73	0.81	0.9	0.32 J
Butyl benzyl phthalate			U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	1	5.6	U	**1.3**	U	U	U	0.53	0.69	0.85	**1.1**	0.26 J
Chrysene	1	56	U	**1.2**	U	U	U	0.46	0.61	**1**	**1.1**	0.28 J
3 3-Dichlorobenzidine			U	U	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate			U	0.055 J	U	U	U	U	0.13 J	U	0.17 J	9.4
Di-n-octyl phthalate			U	U	U	U	U	U	U	U	U	0.66 J
Benzo(b)fluoranthene	1	5.6	0.082 J	**1.4**	U	U	U	0.72	0.81	**1.4**	**1.7**	0.44 J
Benzo(k)fluoranthene	0.8	56	U	0.53	U	U	U	0.22 J	0.33 J	0.46	0.57	0.17 J
Benzo(a)pyrene	1	1	U	**1.1**	U	U	U	0.53	0.62	0.98	**1.1**	0.3 J
Indeno(1 2 3-cd)pyrene	0.5	5.6	0.12 J	**1.3**	U	U	U	0.49	0.49	**0.61**	**0.68**	0.2 J
Dibenzo(a h)anthracene	0.33	0.56	U	**0.36 J**	U	U	U	0.12 J	0.14 J	0.15 J	0.17 J	U
Benzo(ghi)perylene	100	500	0.11 J	1.1	U	0.13 J	U	0.45	0.51	0.51	0.67	0.18 J
Total SVOCs			0.383	12.677	0.077	0.13	0.064	5.25	6.4	8.56	11.183	12.93

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U - Not Detected

J- Estimated value, below detection limits

B - Compound detected in method blank

NA - Compound not analyzed for

M - Manually integrated compound

Table 9: (Page 5 of 5). Interim Remedial Measure-2 Soil Sample Analytical Results. Excavation End-Point and Surface Soil Sampling. SWRNA, 2007. Site Management Plan. 47 Utica Street, Hamilton, New York.

Analyte (mg/Kg)	Soil Cleanup Objectives		Sample Identification								
	Unrestricted Use	Commercial Use	SURFACE SOIL (SS-2N) North Sidewall	SURFACE SOIL (SS-2S) South Sidewall	SURFACE SOIL (SS-2E) East Sidewall	SURFACE SOIL (SS-2W) West Sidewall	SURFACE SOIL (SS-2B) Bottom	BAY 2 DRAIN (B-2) SEDIMENT*	BAY 3 (B3) SUMP*	HYDRAULIC LIFT (H1 SIDEWALL)	HYDRAULIC LIFT (H2 BOTTOM)
SVOCs by EPA 8270C											
Phenol	0.33	500	U	U	U	U	U	U	U	U	U
Bis(2-chloroethyl)ether			U	U	U	U	U	U	U	U	U
1 3-Dichlorobenzene	2.4	280	U	U	U	U	U	U	U	U	U
1 4-Dichlorobenzene	1.8	130	U	U	U	U	U	U	U	U	U
1 2-Dichlorobenzene	1.1	500	U	U	U	U	U	U	U	U	U
Benzyl alcohol			U	U	U	U	U	U	U	U	U
2-Methylphenol	0.33	500	U	U	U	U	U	U	U	U	U
2 2-oxybis (1-chloropropane)			U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine			U	U	U	U	U	U	U	U	U
Hexachloroethane			U	U	U	U	U	U	U	U	U
4-Methylphenol	0.33	500	U	U	U	U	U	U	U	U	U
2-Chlorophenol			U	U	U	U	U	U	U	U	U
Nitrobenzene		69	U	U	U	U	U	U	U	U	U
Bis(2-chloroethoxy)methane			U	U	U	U	U	U	U	U	U
1 2 4-Trichlorobenzene			U	U	U	U	U	U	U	U	U
Isophorone			U	U	U	U	U	U	U	U	U
2 4-Dimethylphenol			U	U	U	U	U	U	U	U	U
Hexachlorobutadiene			U	U	U	U	U	U	U	U	U
Naphthalene	12	500	0.63 J	0.38 J	0.84 J	0.19 J	0.68 J	1.8	U	U	0.064 J
2 4-Dichlorophenol			U	U	U	U	U	U	U	U	U
4-Chloroaniline			U	U	U	U	U	U	U	U	U
2 4 6-Trichlorophenol			U	U	U	U	U	U	U	U	U
2 4 5-Trichlorophenol			U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene			U	U	U	U	U	U	U	U	U
2-Methylnaphthalene			U	0.14 J	U	0.076 J	U	3.2	U	U	U
2-Nitroaniline			U	U	U	U	U	U	U	U	U
2-Chloronaphthalene			U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol			U	U	U	U	U	U	U	U	U
2 6-Dinitrotoluene			U	U	U	U	U	U	U	U	U
2-Nitrophenol			U	U	U	U	U	U	U	U	U
3-Nitroaniline			U	U	U	U	U	U	U	U	U
Dimethyl phthalate			U	U	U	U	U	U	U	U	U
2 4-Dinitrophenol			U	U	U	U	U	U	U	U	U
Acenaphthylene	100	500	0.6 J	0.8	0.87 J	0.64	2	U	0.73	0.41	0.46
2 4-Dinitrotoluene			U	U	U	U	U	U	U	U	U
Acenaphthene	20	500	1.5	1.1	2.5	0.45	0.97 J	U	U	U	U
Dibenzofuran			0.86 J	0.58 J	1.3 J	0.35 J	0.54 J	U	U	U	U
4-Nitrophenol			U		U	U	U	U	U	U	U
Fluorene	30	500	1.1 J	0.87	1.9	0.38 J	0.9 J	0.39 J	U	U	0.072 J
4-Nitroaniline			U	U	U	U	U	U	U	U	U
4-Bromophenyl phenyl ether			U	U	U	U	U	U	U	U	U
Hexachlorobenzene			U	U	U	U	U	U	U	U	U
Diethyl phthalate			U	U	U	U	U	U	U	U	U
4-Chlorophenyl phenyl ether			U	U	U	U	U	U	U	U	U
Pentachlorophenol	0.8	6.7	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine			U	U	U	U	U	U	U	U	U
4 6-Dinitro-2-methylphenol			U	U	U	U	U	U	U	U	U
Phenanthrene	100	500	11	9.1	19	4.1	8.1	0.44 J	0.51	0.43	0.53
Anthracene	100	500	2.5	2.4	4.4	1.1	2.6	0.11 J	0.39	0.28 J	0.48
Carbazole			1.7	1.3	3.1	0.55	1.1 J	0.086 J	0.093 J	0.073 J	U
Di-n-butyl phthalate			U	U	U	U	U	U	U	U	U
Fluoranthene	100	500	13	12	25	6	14	1	1.8	1.6	1.4
Pyrene	100	500	9.4	9.1	12	4.2	6.9	0.67	1.5	1	1.5
Butyl benzyl phthalate			U	U		U	U	0.085 J	U	U	U
Benzo(a)anthracene	1	5.6	**7.1**	**6.9**	**11**	**3.5**	**7.1**	0.29 J	**1.4**	**1.1**	**1.7**
Chrysene	1	56	**6.7**	**6.9**	**12**	**3.5**	**7.1**	0.58	**1.4**	**1.1**	**2.1**
3 3-Dichlorobenzidine			U	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate			U	U	U	U	U	2.3	0.18 J	U	U
Di-n-octyl phthalate			U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	1	5.6	**6.8**	**6.6**	**15**	**3.1**	**9.4**	0.68	**1.9**	**1.4**	**1.4**
Benzo(k)fluoranthene	0.8	56	**2.6**	**2.8**	**5.5**	**1.2**	**3.3**	0.23 J	0.67	0.55	0.15 J
Benzo(a)pyrene	1	1	**5.6**	**5.8**	**10**	U	**6.4**	0.38 J	**1.4**	**1**	0.89
Indeno(1 2 3-cd)pyrene	0.5	5.6	**3.7**	**3.5**	**5.1**	**1.6**	**3.3**	0.33 J	**1.3**	**0.59**	**0.52**
Dibenzo(a h)anthracene	0.33	0.56	**0.93 J**	**0.85**	**1.4 J**	**0.37 J**	**0.83 J**	U	**0.33 J**	0.15	0.12 J
Benzo(ghi)perylene	100	500	2.8	2.5	3.7	1.2	2.5	0.28 J	1.2	0.46	0.44
Total SVOCs			78.52	73.62	134.61	32.506	77.72	12.851	14.803	10.143	11.826

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U - Not Detected

J- Estimated value, below detection limits

B - Compound detected in method blank

NA - Compound not analyzed for

M - Manually integrated compound

* - sample was collected from sediment in floor drain sumps, all material was containerized and transported off-Site for proper disposal

Table 10 (page 1 of 2). Summary of Supplemental Soil Sample Analytical Results. SWRNA 2008. SMP. 47 Utica Street ERP Site.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification			
	Unrestricted Use	Commercial Use	On-Site Subsurface Soil Samples			
			MW17-1		MW17-2	
Sample Date			Sep-08		Sep-08	
Sample Depth			7.5' - 8'		13' - 14'	
EPA Method 8260B						
Chloromethane				U		U
Bromomethane				U		U
Vinyl chloride	0.02	13		U		U
Chloroethane				U		U
Methylene chloride	0.05	500	0.016	J	0.011	J
Acetone	0.05	500	0.0063	J	**0.064**	
Carbon disulfide				U		U
1 1-Dichloroethene	0.33	500		U		U
1 1-Dichloroethane	0.27	240		U		U
trans-1 2-Dichloroethene	0.19	500		U		U
cis-1 2-Dichloroethene	0.25	500		U		U
Chloroform	0.37	350		U		U
1 2-Dichloroethane	0.02	30		U		U
2-Butanone (MEK)	0.12	500		U		U
1 1 1-Trichloroethane	0.68	500		U		U
Carbon tetrachloride	0.76	22		U		U
Bromodichloromethane				U		U
1 2-Dichloropropane				U		U
cis-1 3-Dichloropropene				U		U
Trichloroethene	0.47	200	0.013		0.0043	J
Dibromochloromethane				U		U
1 1 2-Trichloroethane				U		U
Benzene	0.06	44		U		U
trans-1 3-Dichloropropene				U		U
Bromoform				U		U
4-Methyl-2-pentanone (MIBK)				U		U
2-Hexanone				U		U
Tetrachloroethene	1.3	150	0.013			U
1 1 2 2-Tetrachloroethane				U		U
Toluene	0.7	500	0.0073		0.0031	J
Chlorobenzene	1.1	500		U		U
Ethylbenzene	1	390		U		U
Styrene				U		U
Xylenes (total)	0.26	500		U		U
Naphthalene	12	500	0.0024	J	0.0021	J
Total VOCs			0.058		0.0845	

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

J The result is < quantitation limit, but > zero. The concentration reported is an approximate value.

Table 10 (page 2 of 2). Summary of Supplemental Soil Sample Analytical Results. SWRNA 2008. SMP. 47 Utica Street ERP Site.

Analyte (mg/kg)	Soil Cleanup Objectives		Sample Identification
	Unrestricted Use	Commercial Use	Soil End Point
Sample Date			Sep-08
Sample Depth			10 inches
EPA Method 8270C			
Phenol	0.33	500	U
Bis(2-chloroethyl)ether			U
1 3-Dichlorobenzene	2.4	280	U
1 4-Dichlorobenzene	1.8	130	U
1 2-Dichlorobenzene	1.1	500	U
Benzyl alcohol			U
2-Methylphenol			U
2 2-oxybis (1-chloropropane)			U
n-Nitroso-di-n-propylamine			U
Hexachloroethane			U
4-Methylphenol			U
2-Chlorophenol			U
Nitrobenzene		69	U
Bis(2-chloroethoxy)methane			U
1 2 4-Trichlorobenzene			U
Isophorone			U
2 4-Dimethylphenol			U
Hexachlorobutadiene			U
Naphthalene	12	500	0.21
2 4-Dichlorophenol			U
4-Chloroaniline			U
2 4 6-Trichlorophenol			U
2 4 5-Trichlorophenol			U
Hexachlorocyclopentadiene			U
2-Methylnaphthalene			0.093 J
2-Nitroaniline			U
2-Chloronaphthalene			U
4-Chloro-3-methylphenol			U
2 6-Dinitrotoluene			U
2-Nitrophenol			U
3-Nitroaniline			U
Dimethyl phthalate			U
2 4-Dinitrophenol			U
Acenaphthylene	100	500	0.17 J
2 4-Dinitrotoluene			U
Acenaphthene	20	500	0.5
Dibenzofuran			0.28 J
4-Nitrophenol			U
Fluorene	30	500	0.4
4-Nitroaniline			U
4-Bromophenyl phenyl ether			U
Hexachlorobenzene	0.33	6	U
Diethyl phthalate			U
4-Chlorophenyl phenyl ether			U
Pentachlorophenol	0.8	6.7	U
n-Nitrosodiphenylamine			U
4 6-Dinitro-2-methylphenol			U
Phenanthrene	100	500	3.6
Anthracene	100	500	0.92
Carbazole			0.6
Di-n-butyl phthalate			U
Fluoranthene	100	500	4.4
Pyrene	100	500	3.8
Butyl benzyl phthalate			U
Benzo(a)anthracene	1	5.6	**2.5**
Chrysene	1	56	**2.5**
3 3-Dichlorobenzidine			U
Bis(2-ethylhexyl)phthalate			U
Di-n-octyl phthalate			U
Benzo(b)fluoranthene	1	5.6	**2.6**
Benzo(k)fluoranthene	0.8	56	**1.1**
Benzo(a)pyrene	1	1	**2.3**
Indeno(1 2 3-cd)pyrene	0.5	5.6	**1.5**
Dibenzo(a h)anthracene	0.33	0.56	**0.4**
Benzo(ghi)perylene	100	500	U
Total SVOCs			27.873

All values reported as mg/kg (parts per million)

Soil Cleanup Objectives from Remedial Program Soil Cleanup Objectives, 6 NYCRR Supbart 375-6, Table 375-6.8(b) (December 2006 and subsequent addenda)

Bold and heavy outlined cells indicate an exceedance of Unrestricted Use Soil Cleanup Objectives

Bold, shaded, and heavy outlined cells indicate an exceedance of Commercial Use Soil Cleanup Objectives

U The compound was not detected at the method detection level.

J The result is less than the quantitation limit, but greater than zero. The concentration reported is an approximate value.

APPENDICES

Appendix A

Environmental Easement and Metes and Bounds Survey

MADISON COUNTY CLERK

DENISE A. ROE

Receipt

Receipt Date: 01/13/2015 12:00:27 PM
RECEIPT # 2015246049

Recording Clerk: BS
Cash Drawer: CASH1
Rec'd Frm: MADISON COUNTY TREASURER
Rec'd In Person

Instr#: 2015-209
DOC: DEED
DEED STAMP: 1160
OR Party: MADISON COUNTY BOARD OF SUPERVISORS
EE Party: 47 UTICA STREET LLC

Recording Fees	
Cover Page	$5.00
Recording Fee	$25.00
Cultural Ed	$14.25
Records Management - County	$1.00
Records Management - State	$4.75
TP584	$5.00
RP5217 - County	$9.00
RP5217 All others - State	$241.00
Transfer Tax	
Transfer Tax	$0.00
DOCUMENT TOTAL: ---->	$305.00
Receipt Summary	
TOTAL RECEIPT: ---->	$305.00
TOTAL RECEIVED: ---->	$305.00
CASH BACK: ---->	$0.00
PAYMENTS	
Check # 011 ->	$305.00
MADISON CO TREASURER	

TAX FORECLOSURE DEED

WHEREAS, MADISON COUNTY HAS ACQUIRED TITLE TO CERTAIN LANDS IN MADISON COUNTY FOR NON-PAYMENT OF DELINQUENT TAXES IN ACCORDANCE WITH A PROCEEDING OF ARTICLE 11 OF THE NEW YORK STATE REAL PROPERTY TAX LAW, FORECLOSURE BY ACTION IN REM; AND

WHEREAS, SECTION 215 OF THE COUNTY LAW AUTHORIZES THE COUNTY TO SELL ALL ITS RIGHTS, TITLE AND INTEREST IN LAND IT OWNS; AND

WHEREAS, THE MADISON COUNTY BOARD OF SUPERVISORS BY RESOLUTION HAS AUTHORIZED THE MADISON COUNTY TREASURER TO CONVEY THE PREMISES HEREIN DESCRIBED TO THE GRANTEE HEREIN NAMED AT AND FOR THE CONSIDERATION SPECIFIED.

NOW, THEREFORE, THIS INDENTURE MADE THE 22ND DAY OF DECEMBER IN THE YEAR 2014 BETWEEN MADISON COUNTY THROUGH THE BOARD OF SUPERVISORS, BY CINDY J. EDICK, PARTY OF THE FIRST PART AND 47 UTICA STREET LLC 171 ROUTE 5 OF WEEDSPORT, NY 13166 PARTY OF THE SECOND PART;

WITNESSETH THAT THE SAID PARTY OF THE FIRST PART FOR AND IN CONSIDERATION OF THE SUM OF $67,000.00 TO IT DULY PAID HAS SOLD AND BY THESE PRESENTS DOES GRANT AND CONVEY TO THE PARTY OF THE SECOND PART, HEIRS, AND ASSIGNS, ALL THAT TRACT AND PARCEL OF LAND SITUATED IN THE VILLAGE OF HAMILTON, MADISON COUNTY AND STATE OF NEW YORK, DESCRIBED AS FOLLOWS:

ASSESSED TO: (Madison County)
COUNTY DEED DATED 4/18/02
Liber 1220, Page 296
Village of Hamilton MAP#: 153.83-1-13
ASSESSMENT: $105,400.00, ACREAGE: 0.27, PROPERTY CLASS: 432

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 ARTICLE 71 OF THE ENVIRONMENTAL CONSERVATION LAW.

TOGETHER WITH THE APPURTENANCES AND ALL THE ESTATE AND RIGHTS OF THE PARTY OF THE FIRST PART IN AND TO SAID PREMISES, TO HAVE AND TO HOLD PREMISES HEREIN GRANTED UNTO THE PARTY OF THE SECOND PART, HEIRS AND ASSIGNS FOREVER.

IN WITNESS WHEREOF, THE SAID PARTY OF THE FIRST PART HAS HEREUNTO SET HER HAND AND THE SEAL OF MADISON COUNTY THE DAY AND YEAR FIRST WRITTEN ABOVE.

MADISON COUNTY
THROUGH THE BOARD OF SUPERVISORS OF SAID COUNTY

BY Cindy J Edick
COUNTY TREASURER OF MADISON COUNTY, NEW YORK

STATE OF NEW YORK
MADISON COUNTY: SS

ON THE JANUARY 13, 2015 BEFORE ME, THE UNDERSIGNED, A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED CINDY J. EDICK, MADISON COUNTY TREASURER, PERSONALLY KNOWN TO ME OR PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE INDIVIDUAL WHOSE NAME IS SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT SHE EXECUTED THE SAME IN HER CAPACITY, AND THAT BY HER SIGNATURE ON THE INSTRUMENT, THE INDIVIDUAL, OR THE PERSON UPON BEHALF OF WHICH THE INDIVIDUAL ACTED, EXECUTED THE INSTRUMENT.

NOTARY PUBLIC, MADISON COUNTY, NEW YORK

Sandra M. Jordan

SANDRA M JORDAN
Notary Public, State of New York
Qualified in Madison County
Commission Expires August 17, 2018

MADISON COUNTY – STATE OF NEW YORK
DENISE A. ROE, COUNTY CLERK
138 NORTH COURT ST, WAMPSVILLE, NY 13163

COUNTY CLERK'S RECORDING PAGE
*****THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH*****

INSTRUMENT #: 2015-171

Receipt#: 2015245951
Clerk: BS
Rec Date: 01/12/2015 11:13:34 AM
Doc Grp: D
Descrip: EASEMENT
Num Pgs: 10
Rec'd Frm: HANCOCK & ESTABROOK

Party1: MADISON COUNTY
Party2: DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Town: HAMILTON

Recording:

Cover Page	5.00
Recording Fee	65.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
TP584-2 (Public Utilities	5.00
Sub Total:	95.00
Transfer Tax	
Transfer Tax	0.00
Sub Total:	0.00
Total:	95.00

**** NOTICE: THIS IS NOT A BILL ****

***** Transfer Tax *****
Transfer Tax #: 1153
Transfer Tax
Consideration: 0.00

Total: 0.00

I hereby certify that the within and foregoing was recorded in the Clerk's Office for: Madison County, NY

Denise A. Roe

Denise A. Roe
Madison County Clerk

Record and Return To:

HANCOCK & ESTABROOK
1500 MONEY TOWER I
POB 4976
SYRACUSE NY 13221

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 31st day of December, 2014, between Owner(s) Madison County, having an office at 138 N Court Street, Wampsville, New York 13163, County of Madison, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 47 Utica Street in the Village of Hamilton, Town of Hamilton, County of Madison and State of New York, known and designated on the tax map of the County Clerk of Madison as tax map parcel numbers: Section 153.83 Block 1 Lot 13, being the same as that property conveyed to Grantor by deed dated April 18, 2002 and recorded in the Madison County Clerk's Office in Liber and Page 1220/295. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately .282 +/- acres, and is hereinafter more fully described in the Land Title Survey dated September 13, 2013 prepared by Susan M. Anacker, Professional Land Surveyor, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of State Assistance Contract Number: C302761, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Madison County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved b the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5 the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by

Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:	Site Number: E727011 Office of General Counsel NYSDEC 625 Broadway Albany New York 12233-5500
With a copy to:	Site Control Section Division of Environmental Remediation NYSDEC 625 Broadway Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Madison County:

By: ______________________

Print Name: John Becker

Title: Chairman Date: 12/22/14

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF MADISON)

On the 22nd day of December in the year 2014, before me, the undersigned, personally appeared John Becker, 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.

Notary Public - State of New York

CHRISTINE J COE
Notary Public - State of New York
NO. 01CO6042761
Qualified in Madison County
My Commission Expires June 5, 2018

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: ______________________
Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 31st day of December, in the year 2014, before me, the undersigned, personally appeared Robert W. Schick, 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/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

____
Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2018

SCHEDULE "A" PROPERTY DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND: situate at 47 & 49 Utica Street, Village of Hamilton, Town of Hamilton, Madison County, New York State, bounded and described as follows;

Beginning at a 5/8" steel rod set with a tag (hereinafter called a survey marker), at the northeast corner of lands of MDJ Enterprises, LLC. As recorded in the Madison County Clerk's Office in Liber 1240 of Deeds at Page 227. Said point is also located, N 16° 42' 59" W, 456.20 feet from Utica Street, Eaton Street centerline intersection.

Thence along the north boundary of said MDJ Enterprises, LLC. As recorded in Liber 1240 of Deeds at Page 227, S 70° 30' 19" W, 66.25 feet to a survey marker.

Thence along the east boundary of lands of Robert A. Maxwell and Christy L. Jones-Maxwell as recorded in Liber 1139 of Deeds at Page 318, and continuing along the east boundary of Louise M. Hess as recorded in Liber 1209 of Deeds at Page 311, N 17° 03' 33" W, 170.10 feet to a survey marker.

Thence along the south boundary of lands of Ronald Cook as recorded in Liber 1194 of Deeds at Page 177 N 77° 06' 25" E, 3.68 feet to a 3/4" iron pipe and N 77° 06' 25" E, 78.56 feet to a survey marker.

Thence along the west side of Utica Street S 11° 27' 19" E, 162.09 feet to the point of beginning.

Containing 0.282 Acres of Land.

Bearings are based on magnetic north 1996 and all distances are level.

Subject to all public highway rights, rights of way and easements of record.

TP-584.2 (10/96)

Recording Office Time Stamp

Real Estate Transfer Tax Return For Public Utility Companies' and Governmental Agencies' Easements and Licenses

This form may only be used by public utility companies regulated by the Public Service Commission and governmental agencies for the recording of easements and licenses where the consideration for the grant of such easement or license is $500.00 or less.

Name of grantee (public utility company or governmental agency)
The Department of Environmental Conservation

Federal employer identification number *(if applicable)*

Address of grantee
625 Broadway Ave., Albany, New York 12233

Name and telephone number of person to contact
Bradford D. Burns (518) 402-9518

	Name(s) of Grantor Of Easement or License	Address of Property	Consideration Given For Easement or License
1.	Madison County	47 Utica Street, Hamilton, NY	$1.00
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

If more than fifteen conveyances are to be recorded, attach a schedule of such other conveyances.

Signature of Grantee

I certify that the grantee is a public utility regulated by the Public Service Commission or is a governmental agency and the grantee of the easements and/or licenses above; that it is true to the best knowledge of the grantee that the granting of each such easement and/or license is exempt from Real Estate Transfer Tax imposed by Article 31 of the Tax Law by reason that each such conveyance is for a consideration of five hundred dollars or less and/or the conveyance is being made to a governmental agency.

The Department of Environmental Conservation
Name of grantee

Signature of partner, officer of corporation, governmental official, etc.

Title

Magnetic North
1996
(Per Note #6)

Notes:

1) REFERENCE IS MADE TO MAP OF PROPERTY OF AGWAY CORPORATION, MADE BY WISSENBACH LAND SURVEYING LAST DATED SEPT. 10, 2002.

2) REFERENCE IS MADE TO MAP SHOWING PROPERTY OF JEROME BACON, MADE BY KEMPER–McLOUGHLIN, CO.,INC, DATED JANUARY 9, 1926; MAP SHOWING STANDARD OIL CO. OF N.Y. MADE BY R.H.ALBRECHT, C.E., DATED DEC. 7, 1971; MAP FILED I N THE MADISON COUNTY CLERK'S OFFICE #1978 MAP FILED IN THE N.Y.S.D.O.T., HAMILTON–BOUCKVILLE S.H. NO.5492 MAP NO.22 PARCEL NO.38.

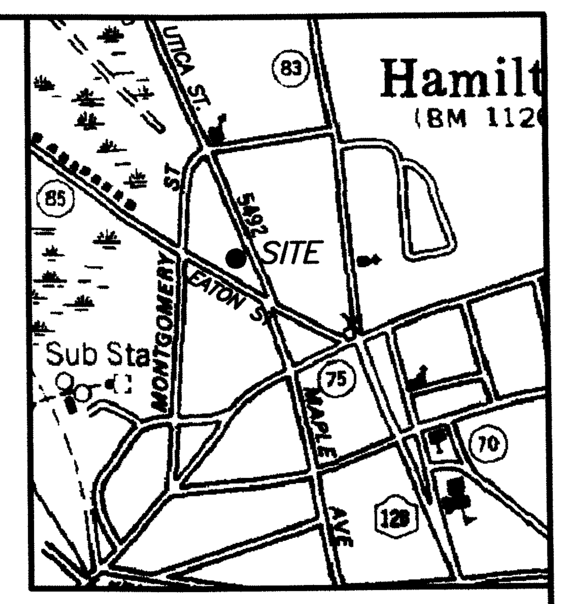
3) REFERENCE IS MADE TO BOUNDARY AND SUBDIVISION MAP OF THE LANDS OF THE ESTATE OF LOUISE HESS, MADE BY RHINEVAULT SURVEYORS, P.C., LAST DATED MAY 11, 2001.

4) REFERENCE IS MADE TO MAP OF PROPERTY OF WERNER AND DANIELLE C. KOENIG, MADE BY RHINEVAULT SURVEYORS, P.C., LAST DATED OCTOBER 16, 1989.

5) REFERENCE IS MADE TO MAP OF PROPERTY OF ESTATE OF PRESTON E. TRASK, MADE BY RHINEVAULT SURVEYORS, P.C., LAST DATED DECEMBER 31, 1985.

6) REFERENCE IS MADE TO PROPERTY SURVEY FOR MADISON COUNTY BOARD OF SUPERVISORS LIBER 1220 PAGE 296, MADE BY WISSENBACH LAND SURVEYING, L.S., LAST DATED MARCH 30, 2005.

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

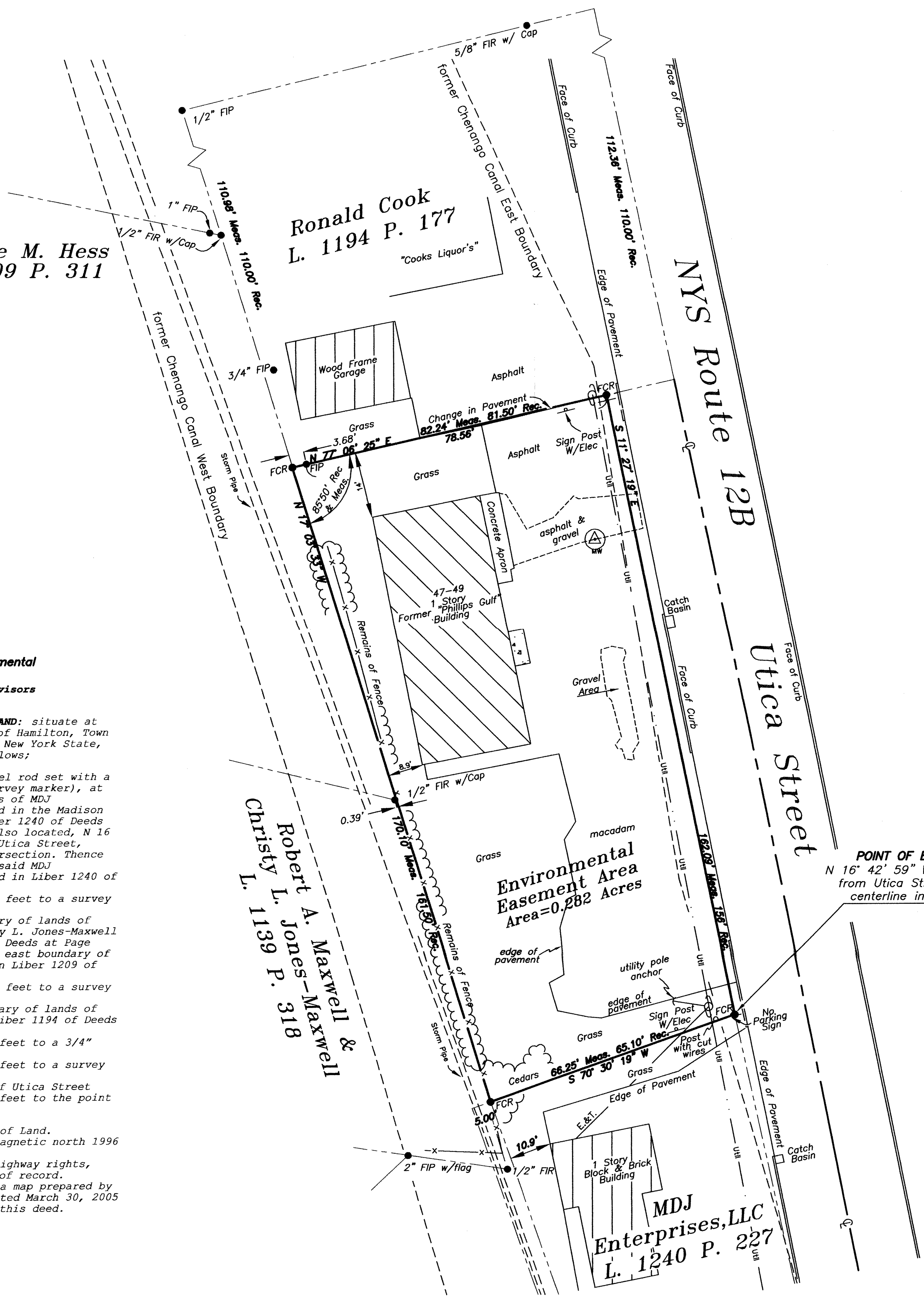


LOCATION MAP

LEGEND

FIP	Found Iron Pipe
FIR	Found Iron Rod
FCR	Found Capped Rod (Wissenbach)
	Tree Line / Edge of Woods
	Utility Pole with Overhead Wires
MW	Monitor well
	Property Line
℄	Centerline (existing)
Rec.	Record Measurement in Deed
Meas.	Measurement in Field

10' 0 10' 20'



POINT OF BEGINNING
N 16° 42' 59" W, 456.20' ±,
from Utica St. Eaton St.,
centerline intersection

Engineering and institutional controls include maintenance of asphalt pavement, building slab and soil covers. The engineering and institutional controls for the Easement are set forth in detail in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, New York 12233.

Legal Description and Environmental Easement Description

Madison County Board of Supervisors
Survey Description

ALL THAT TRACT OR PARCEL OF LAND: *situate at 47&49 Utica Street, Village of Hamilton, Town of Hamilton, Madison County, New York State, bounded and described as follows;*

Beginning at a 5/8" steel rod set with a tag (hereinafter called a survey marker), at the northeast corner of lands of MDJ Enterprises, LLC. as recorded in the Madison County Clerk's Office in Liber 1240 of Deeds at Page 227. Said point is also located, N 16 42' 59" W, 456.20 feet from Utica Street, Eaton Street centerline intersection. Thence along the north boundary of said MDJ Enterprises, LLC. as recorded in Liber 1240 of Deeds at Page 227,

S 70 30' 19" W, 66.25 feet to a survey marker.

Thence along the east boundary of lands of Robert A. Maxwell and Christy L. Jones-Maxwell as recorded in Liber 1139 of Deeds at Page 318,and continuing along the east boundary of Louise M. Hess as recorded in Liber 1209 of Deeds at Page 311,

N 17 03' 33" W, 170.10 feet to a survey marker.

Thence along the south boundary of lands of Ronald Cook as recorded in Liber 1194 of Deeds at Page 177

N 77 06' 25" E, 3.68 feet to a 3/4" iron pipe and

N 77 06' 25" E, 78.56 feet to a survey marker.

Thence along the west side of Utica Street

S 11 27' 19" E, 162.09 feet to the point of beginning.

Containing 0.282 Acres of Land.

Bearings are based on magnetic north 1996 and all distances are level.

Subject to all public highway rights, rights of way and easements of record.

Reference is made to a map prepared by Wissenbach Land Surveying dated March 30, 2005 and filed concurrently with this deed.

DEED REFERENCE
Madison County Board of Supervisors
Liber 1220 of Deeds at Page 295
Dated April 18, 2002
Recorded April 23, 2002

MAP

of property of

MADISON COUNTY BOARD OF SUPERVISORS

Site No. E7-27-011

T.M. #153.83-1-13
47–49 Utica Street
VILLAGE OF HAMILTON, COUNTY OF MADISON
STATE OF NEW YORK

Dated: November 13, 2013 *Scale: 1" = 20'*
Drawn By: K.L. Doxtader
Survey and Map by: Susan M. Anacker, Professional Land Surveyor
Susan M. Anacker, L.S. Lic # 50321
11082 Davis Road East, Deerfield, New York 13502
(315) 724-6800

E13–115

Only apparent easements (if any) are shown on this survey. No abstract of title was available.

Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

Only copies from the original of this survey marked with an original seal shall be considered to be valid, true copies.

I, Susan M. Anacker, L.S., Lic. No. 50321, (N.Y.), do hereby certify that this Map was prepared by me from an instrument survey in accordance with the most current Code of Practice for Land Surveys, first adopted May 19,1973, by the N.Y.S. Association of Professional Land Surveyors.
This Certification shall run only to the following:

1. *The People of the State of New York acting through their Commissioner of the Department of Environmental Conservation*
2. *Elite Abstract Services, LLC*
3. *Madison County Board of Supervisors*

Susan M Anacker

November 13, 2013

STATE OF NEW YORK
SUSAN M. ANACKER
050321
Licensed Land Surveyor

ORIGINAL STAMPED IN RED INK

Appendix B

Soil Management Plan

APPENDIX B – SOIL MANAGEMENT PLAN

B-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 Department. Currently, this notification will be made to:

Mr. Christopher Mannes, Project Manager

NYSDEC, Region 7

615 Erie Boulevard West

Syracuse, New York 13204

This notification will include:

- A detailed description of the work to be performed, including the location and areal 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 work that may impact an engineering 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 SMP;
- A statement that the work will be performed in compliance with this SMP and 29 CFR 1910.120;
- A copy of the contractor's health and safety plan, in electronic format, if it differs from the HASP provided in Appendix C of this Site Management Plan;
- Identification of disposal facilities for potential waste streams; and

- Identification of sources of any anticipated backfill, along with all required chemical testing results.

B-2 SOIL SCREENING METHODS

Site soil that is excavated must be managed, characterized, and properly disposed of in accordance with NYSDEC regulations and directives. Visual, olfactory and instrument-based soil screening will be performed by a 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 No Further Action Letter.

Soils will be segregated based on previous environmental data and screening results into material that requires off-Site disposal, material that requires testing, material that can be returned to the subsurface, and material that can be used as cover soil.

For excavated soil with evidence of contamination (i.e., visual, olfactory, and/or PID indications), soil samples will be collected in accordance with Table 5.4 of NYSDEC's Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation* (May 2010 or latest revision), as indicated below:

Recommended Number of Soil Samples for Soil Imported To or Exported From a Site as set forth in DER-10 Paragraphs 5.4(e) & 5.4(f)								
Contaminant	Semivolatiles		Volatiles		Inorganics		Pesticides/PCBs	
Soil Quantity (yd3)	Grab	Composite	Grab	Composite	Grab	Composite	Grab	Composite
0-50	1	1	1	NA	1	1	1	1
50-100	1	2	2	NA	1	2	1	2
100-200	1	3	3	NA	1	3	1	3
200-300	1	4	4	NA	1	4	1	4
300-400	2	4	4	NA	2	4	2	4
400-500	2	5	5	NA	2	5	2	5
500-800	2	6	6	NA	2	6	2	6
800-1,000	2	7	7	NA	2	7	2	7
> 1,000	Submit Proposed Sampling Plan							

NA = Not Applicable

For soil with no evidence of contamination (i.e., visual, olfactory, and/or PID indications), the number of required samples may be modified with NYSDEC concurrence, per DER-10 Section 5.4(f)2.

B-3 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 kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each 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.

Stockpiled soil will not be transported off-Site until analytical results are received and evaluated.

B-4 MATERIALS EXCAVATION AND LOAD OUT

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

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.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-Site. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the Site until the activities performed under this section are complete.

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 excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

B-5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

If analytical results indicate that concentrations exceed standards for RCRA characteristics, or the soils are determined to be a listed hazardous waste per 6NYCRR Part 371, the material will be considered a hazardous waste, and must be properly disposed off-Site at a permitted facility within 90 days of excavation.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the Site. Truck wash waters will be collected and disposed of off-Site in an appropriate manner.

All trucks loaded with Site materials will exit the vicinity of the Site using the most sppropriate truck routes. This takes into account: (a) limiting transport through residential areas and past sensitive Sites; (b) use of city mapped truck routes; (c) prohibiting off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project Site.

Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site remediation and development.

Queuing of trucks will be performed on-Site in order to minimize off-Site disturbance. Off-Site queuing will be prohibited.

B-6 MATERIALS DISPOSAL OFF-SITE

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 6NYCRR 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.

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. 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.

Non-hazardous historic fill and contaminated soils taken off-Site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

B-7 MATERIALS REUSE ON-SITE

Soil excavated from below the soil cover system area may be reused as backfill material on-Site below the top 1-foot of surface material provided it contains no readily observable (visual, olfactory, or having PID readings of 10 ppm above background or greater) evidence of contamination. These soils may be used as backfill within the top 1-foot of surface material provided they are tested and identify that they meet Unrestricted Use Soil Cleanup Objectives.

Soil with readily observable evidence of contamination will be analyzed as specified in Section B-2. If analytical results verify that no contaminants are present above NYS Commercial Use soil cleanup objectives (SCOs) per 6NYCRR Part 375-6.8(b), the soil may be used as backfill on-Site.

Chemical criteria for on-Site reuse of material have been approved by NYSDEC and are listed in Table 6 of the Site Management Plan. 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. Contaminated on-Site material, including historic fill and contaminated soil, that is acceptable for re-use on-Site will be placed below the top 1-foot of surface material 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.

B-8 FLUIDS MANAGEMENT

All liquids to be removed from the Site, including excavation dewatering and groundwater monitoring well purge and development waters, 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.

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 SPDES permit.

B-9 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 Decision Document. The demarcation layer will be replaced 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.

B-10 BACKFILL FROM OFF-SITE SOURCES

Backfill from off-Site sources imported to the Site must meet requirements of 6NYCRR Part 375-6.7(d), and as specified by DER-10 Section 5.4(e).

Soil imported to a Site for use in a soil cap, soil cover, or as backfill will be free of extraneous debris or solid waste; consist of soil or other unregulated material as set forth in 6NYCRR Part 360; and not exceed the allowable constituent levels for imported fill or soil for the use of the Site. The applicable level for Commercial Use Sites is the lower of the:

1. protection of groundwater standards; or
2. protection of public health soil cleanup objectives for the identified use of the Site as set forth in 6NYCRR Part 375 Table 375-6.8(b).

Soil samples from off-Site sources will be collected as indicated on the table presented in Section B-2 of this SMP (Table 5.4 of DER-10 Section 5.4(e)) to verify they are suitable for use on-Site.

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, or 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 6NYCRR 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 listed in Table 6 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.

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.

B-11 STORMWATER POLLUTION PREVENTION

A Stormwater Pollution Prevention Plan for the Site will need to be developed as appropriate, based on the planned Site work.

Barriers and hay bale checks will be installed and 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 identified in the Site Management Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

B-12 CONTINGENCY PLAN

If underground tanks or other 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 a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, 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 also be included in the periodic reports prepared pursuant to Section 5 of the Site Management Plan.

B-13 COMMUNITY AIR MONITORING PLAN

Air monitoring will be conducted during Site work, in accordance with a Community Air Monitoring Plan (CAMP), as required by Appendix A-1 of NYSDEC's DER-10. A sample CAMP is included in Appendix C of the Site Management Plan. The objective of the CAMP is to provide a measure of protection for the downwind community from potential airborne contaminant releases that might arise as a result of work conducted on-Site. The CAMP includes monitoring for volatile organic compounds (VOCs) and particulate matter (e.g. airborne "dust").

The CAMP also specifies methods that must be used to conduct air monitoring, and the specific instruments to be used, as well as action levels for VOCs and dust.

The location of air sampling stations should be based on generally prevailing wind conditions at the Site. These locations will be adjusted on a daily, or more frequent, basis based on actual wind directions to provide one upwind and one downwind monitoring station.

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

B-14 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors off-Site and on-Site, if there are residents or tenants on the property. 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 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 property owner's Remediation Engineer, 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: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils, or other measures. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (a) direct load-out of soils to trucks for off-Site disposal; (b) use of chemical odorants in spray or misting systems; and, (c) use of staff to monitor odors in surrounding neighborhoods, or other measures as necessary.

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.

B-15 DUST CONTROL PLAN

A dust suppression plan that addresses 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.
- Clearing and grubbing of larger Sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-Site roads will be limited in total area to minimize the area required for water truck sprinkling.

B-16 OTHER NUISANCES

A plan for rodent control will be developed and utilized by the contractor prior to and during Site clearing and Site grubbing, and during all remedial work.

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

Appendix C

Sample Health and Safety Plan (HASP) and Sample Community Air Monitoring Plan (CAMP)

Site Health and Safety Plan

47 Utica Street
Hamilton, New York

March 2012

Site Health and Safety Plan

Table of Contents

Site Health and Safety Plan

1 Site Description

Date	March 8, 2012
Location	47 Utica Street, Hamilton, New York
Hazards	Volatile and semi-volatile organic compounds in soil, groundwater, and soil vapor
Area Affected	Surface soil, sub-surface soil, soil vapor, and groundwater
Surrounding Population	Mixed commercial and residential properties
Topography	Generally flat
Weather Conditions	Usually partly sunny to overcast, west winds

2 Entry Objectives

The objective of site entry is to sell and redevelop the site.

3 On-Site Organization and Coordination

The following GHD personnel are designated to carry out the stated job functions on site. (Note: One person may carry out more than one job function.)

- Project Manager.. Donald Sorbello or Designee 315.679.5800
- Field Team Leader .... Ian McNamara or Designee 315.679.5800
- Field Sampling Team Member....................... Ian McNamara or Designee 315.679.5800
- Project Safety Officer .... Katherine Hahn or Designee 315.679.5800

4 On-Site Control

The owner of the property, or its designated agent, will coordinate access control and security for the work area for each day of on-site work. No unauthorized personnel should be within the established work area. All contractors will be responsible to assure appropriate health and safety plans are available and have been reviewed with their workers and subcontractors.

5 Hazard Evaluation

5.1 Chemical Hazards

It is anticipated that a number of different chemical contaminants may be encountered during site activities. Previous investigations conducted at the site have determined the Contaminants of Concern (COCs) in soil to be semi-volatile organic compounds (SVOCs) and metals, including copper, lead, mercury, zinc, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Site Health and Safety Plan

Previous investigations conducted at the site have determined the COCs in groundwater to be volatile organic compounds (VOCs) and SVOCs, including ethylbenzene, toluene, xylenes (total), and naphthalene.

The maximum concentration found in the soil at the site for each contaminant is as follows:

- copper – 70.9 milligrams per kilogram (mg/Kg)
- lead – 530 mg/Kg
- mercury – 0.89 mg/Kg
- zinc – 1,050 mg/Kg
- benzo(a)anthracene – 11 mg/Kg
- benzo(a)pyrene – 10 mg/Kg
- benzo(b)fluoranthene – 15 mg/Kg
- benzo(k)fluoranthene – 5.5 mg/Kg
- chrysene – 12 mg/Kg
- dibenz(a,h)anthracene – 1.4 mg/Kg
- indeno(1,2,3-cd)pyrene – 5.1 mg/Kg

The maximum concentration found in the groundwater at the site for each contaminant is as follows:

- ethylbenzene – 89 micrograms per liter (µg/L)
- toluene – 5 µg /L
- xylene (total) – 230 µg /L
- naphthalene – 110 µg/L

The locations with the highest concentration of these contaminants are MW-4 and MW-10.

The primary hazards of each known or suspected chemical contaminant are identified below. The main potential exposure route is associated primarily with direct skin contact and inhalation.

Substance	Primary Hazards
Volatile Organics	
Ethylbenzene	Eye, skin, and nose irritation, headache, dermatological irritation
Toluene	Eye, skin, and nose irritation, drowsiness
Xylenes (total)	Dizziness, drowsiness, eye, nose, and throat irritation
Semi-Volatile Organics	
Naphthalene	Headache, nausea, sweating

Substance	Primary Hazards
Metals	
Copper	Eye and nose irritation, metallic taste
Lead	Eye irritation, stomach pain, weakness, insomnia, kidney disease
Mercury	Eye and skin irritation, cough, insomnia, headache
Zinc	Eye and skin irritation, nausea, muscle aches, chills, throat irritation

5.2 Physical Hazards

Physical hazards for this project relate to mechanical exposure associated with working around heavy equipment and vehicles, noise exposure, and heat or cold stress. Basic safety guidelines for the above noted main physical hazards are included below.

5.2.1 Drilling

Site activities may involve drilling of soil borings, monitoring wells, and soil vapor wells into the subsurface soils. The estimated location of all underground utilities must be determined before drilling begins. Necessary clearances must be observed. Appropriate controls will be implemented during drilling to protect site workers and the public. A Community Air Monitoring Plan will be implemented during drilling activities.

5.2.2 Excavation and Backfilling

Site activities may involve excavation and trenching of impacted material. The estimated location of all underground utilities must be determined before excavation begins. Necessary clearances must be observed. Appropriate engineering controls will be implemented during excavation to maintain road stability and protect the public.

The standard operating procedure (SOP) for excavation and construction work will follow New York State Department of Labor (NYSDOL), Division of Safety and Health, Industrial Code Rules (Part 23).

5.2.3 Utility Clearances

Prior to any intrusive activities (e.g., drilling, excavating, probing) New York State Dig Safe shall be contacted to mark underground lines before commencement of any work.

Personnel directly involved in intrusive work shall determine the minimum distance from marked utilities which work can be conducted with the assistance of the locator line service.

5.2.4 Heavy Lifting Method

Personnel conducting work that may require lifting of heavy objects should use the following proper lifting techniques:

1. Feet must be parted, with one foot alongside the object being lifted and one foot behind. When the feet are comfortably spread, a more stable lift can occur and the rear foot is in a better position for the upward thrust of the lift.

2. Use the squat position and keep the back straight. A straight back means the spine, back muscles, and organs of the body are in correct alignment.

3. To grip the item being lifted, the fingers and the hand are extended around the object being lifted, using the full palm. Fingers have very little power; use the strength of the entire hand.

4. The load must be drawn close, and the arms and elbows must be tucked into the side of the body. Holding the arms away from the body increases the strain on the arms and elbows. Keeping the arms tucked in helps keep the body weight centered.

The body must be positioned so that the weight of the body is centered over the feet. This provides a more powerful line of thrust and also ensures better balance. Start the lift with a thrust of the rear foot. Do not twist.

5.2.5 Slip/Trip/Hit/Fall

These injuries are the most frequent of all injuries to workers. They occur for a wide variety of reasons, but can be minimized by the following practices:

1. Spot-check the work area to identify hazards.

2. Establish and utilize pathways that are most free of slip and trip hazards. Avoid pathways that are more hazardous.

3. Beware of slip and trip hazards, such as wet floors, slippery floors, and uneven terrain.

4. Carry only loads you can see over.

5. Keep work areas clean and free of clutter, especially in storage areas and walkways.

6. Communicate observed hazards to site personnel.

5.2.6 Heat Stress

All field personnel engaged in site work shall have completed training to recognize and avoid heat related illnesses. Proper training and preventive measures will aid in averting loss of worker productivity and serious illness. Heat stress prevention is particularly important because once a person suffers from heat stroke or heat exhaustion, that person may be predisposed to additional heat-related illnesses. To avoid heat stress, the following steps may be taken:

1. Adjust work schedules.

    a. Modify work/rest schedules according to monitoring requirements.

b. Mandate work slowdowns as needed.

c. Perform work during cooler hours of the day, if possible, or at night if adequate lighting can be provided.

2. Provide shelter (air conditioned, if possible) or shaded areas to protect personnel during rest periods.

3. Maintain worker's body fluids at normal levels. This is necessary to ensure that the cardiovascular system functions adequately. Daily fluid intake must approximately equal the amount of water lost in sweat, [i.e., 8 fluid ounces (0.23 liters) of water must be ingested for approximately every 8 ounces (0.23 kg) of weight lost]. The normal thirst mechanism is not sensitive enough to ensure that enough water will be consumed to replace lost sweat. When heavy sweating occurs, encourage the worker to drink more.

4. Members of each Work Crew shall be properly trained by each Crew's respective employer to recognize the symptoms of heat-related illnesses.

5.2.7 Adverse Weather Conditions

The Field Leader for each Work Crew will be responsible for deciding on the continuation or discontinuation of work for his/her Crew based on current and pending weather conditions. Electrical storms, tornado warnings, and strong winds are examples of conditions that would call for the discontinuation of work and evacuation of the site. Site operations should not be permitted during an electrical storm.

5.2.8 Vehicle Traffic

As the scope of work may include the transport and disposal of material, there is a potential to encounter a temporarily high volume of vehicular traffic. Project Work Crews that have the potential to be exposed to vehicle traffic should wear a high visibility safety vest. The excavation Work Crew will provide proper signage, flagging, and barricades to maintain a safe flow of traffic.

Potential Hazard	Preventative Measures
Slip/Trip/Falls	Use three points of contact to mount and dismount equipment. Continuously inspect work areas for slip, trip, and fall hazards. Be aware of surroundings. Practice good housekeeping.
Noise	Wear appropriate hearing protection.
Pinch Points	Keep hands, feet, and clothing away from moving parts/devices.
Utilities	Maintain proper utility clearances. All utilities should be properly located and marked out prior to start of work.
Heavy Lifting	Follow safe lifting practices. Lift items within your capabilities and assigned project role. Ask for assistance if necessary.
Proximity to Heavy Equipment and Vehicles	Maintain adequate distance from trucks/equipment. Obey barriers and/or signage.

Potential Hazard	Preventative Measures
Heat/Cold Stress	Dress appropriately and follow HASP guidelines.
Dangerous Weather Conditions	Consult local weather reports daily, watch for signs of severe weather, etc. Suspend or reduce work during severe weather.
Chemical Hazards	Use PID as indicated in HASP. Wear specified PPE. No smoking.
Biological Hazards – Insects, Snakes, Poison Plants, etc.	Wear appropriate PPE and keep necessary first aid supplies readily available. Use insect repellant and snake chaps as needed. Learn to identify poisonous plants.

5.3 Biological Hazards

Biological hazards may include contact with biting insects, reptiles, and poisonous plants.

5.3.1 Tick-Borne Diseases

Lyme disease is caused by a bacterial parasite called spirochete, and is spread by infected ticks that live in and near wooded areas, tall grass, and brush. Once the tick deposits the spirochete, it must feed on the host blood for 12 to 24 hours before it can transmit the disease. The ticks that cause the disease in the Northeast and Midwest are often no bigger than a poppy seed or a comma in a newsprint. The peak months for human infection are June through October. There are many other tick borne diseases such as Rocky Mountain Spotted Fever, which can be carried by a variety of ticks. The prevention and treatment of these diseases are similar to those of Lyme Disease.

Ticks hang on blades of grass or shrub waiting for a host to come by. When a host brushes against the vegetation, the tick grabs on. They usually first climb onto a person’s leg and then crawl up looking for a place to attach. Preventative measures include wearing light-colored clothing, keeping clothing buttoned, tucking pant legs in socks, and keeping shirt tails tucked in. Periodic checks for ticks should be made during the day, and especially at night. Hair should also be checked by parting it and combing through it to make sure that no ticks have attached to the scalp. Also, check clothing when it is first removed, before ticks have a chance to crawl off.

The most common repellent recommended for ticks is n,n-dimethyl-m-toluamide, or DEET. It is important to follow the manufacturer's instructions found on the container for use with all insecticides, especially those containing DEET.

In general, DEET insect repellent should only be applied to clothing, not directly on the skin. Do not apply to sunburns, cuts or abrasions. Use soap and water to remove DEET once indoors.

The best way to remove a tick is removal by tweezers. If tweezers are not available, cover your fingers (tissue paper) while grasping the tick. It is important to grasp the tick as close as possible to the site of attachment and use a firm steady pull to remove it. When removing the tick, be certain to remove all the mouth parts from your skin so as not to cause irritation or infection. Wash hands immediately after with soap and water, and apply antiseptic to the area where tick was removed.

A variety of tests exist for determining Lyme Disease infection. However, most of these tests are not exact. The first symptoms of Lyme Disease usually appear from two 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 attached. The rash is often bull's 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 percent of infected persons. An infected person also has flu-like symptoms of fever, fatigue, chills, headaches, a stiff neck, and muscle aches and pains (especially knees). Rashes may be found some distance away from original rash. These symptoms often disappear after a few weeks.

5.3.2 Mosquitoes

Mosquitoes are known to carry diseases including encephalitis and West Nile virus, which can be passed on to humans through the bite of the mosquito. Mosquito bites can also cause itching and swelling. Prevention of mosquito bites is recommended to avoid these diseases. When possible, avoid activity near stagnant water bodies or in deep woods. Mosquitoes are most active later in the day. The most common repellent recommended for mosquitoes is n,n-dimethyl-m-toluamide, or DEET. It is important to follow the manufacturer's instructions found on the container for use with all insecticides, especially those containing DEET.

In general, DEET insect repellent should only be applied to clothing, not directly on the skin. Do not apply to sunburns, cuts or abrasions. Use soap and water to remove DEET once indoors.

5.3.3 Bees and Wasps

The insects most likely to cause strong allergic reactions are wasps, honeybees, hornets, and yellow jackets. Although they differ in appearance and reside in different habitats, all stinging insects have one thing in common – when upset, they will attack.

Yellow jackets and honeybees make their nests in the ground, in old tree stumps, or in walls. Wasps nest in trees, in bushes, under the house, or on buildings. Hornets construct a gray or brown paper football shaped nest in trees and shrubs, 5 to 10 feet above the ground. All of the above may also be found in aboveground protective well casings.

Insect sting reactions can be classified into three types: a normal reaction, a toxic reaction, and an allergic reaction. A normal reaction usually lasts only a few hours.

If you have had an allergic reaction to an insect sting before, an allergist should be consulted. There is a treatment, venom immunotherapy, which is 97 percent effective in preventing future allergic reactions to insect stings.

If stung by a honeybee, the only bee to leave its stinger, instant removal of the stinger and sac usually reduces harmful effects. To remove the stinger, never try to use the thumb and forefinger or tweezers to pinch it out, instead with a fingernail or flat object, scrape it away with one quick scrape in a sideways movement. This method prevents more venom from being injected into the wound.

Other helpful tips would be to take a rapid acting antihistamine to reduce itching; apply ice or cold compresses to the area to reduce swelling; and rest, because physical activity hastens the absorption of the venom.

People with severe allergic reactions should be given a dose of epinephrine immediately following the insect sting. They should also be taken to the hospital for further evaluation. Severe or even life threatening reactions to insect stings, if treated properly, usually clear up in one or two hours after treatment.

5.3.4 Poisonous Plants

Common Poison Ivy (Rhus radicans) grows as a small plant, a vine, and a shrub. Poison Ivy occurs in every state. The leaves always consist of three glossy leaflets. Poison Sumac (Rhus vernix) grows as a woody shrub or small tree 5 to 25 feet tall. It usually contains nine leaves, with eight paired leaves and one on top, and is common in swampy areas. The plants are potent sensitizes and can cause a mild to severe allergic reaction. This reaction is called contact dermatitis.

Dermatitis, in Rhus-sensitive persons, can result from contact with the milky sap found in the roots, stems, leaves, and fruit. The sap may retain its potency for months or years in a dry atmosphere, and can occur during any time of the year. The sap may also be carried by animals, equipment, or apparel.

6 Personal Protective Equipment

Based on evaluation of potential hazards, the following levels of personal protection have been designated for the applicable work areas or tasks:

Location	Job Function	Level of Protection
Work Zone	Site investigation	A B C D Other

Specific protective equipment for each level of protection is as follows:

Level	Protective Equipment	
A	Fully-Encapsulating Suit SCBA (Disposable Coveralls)	
B	Splash Gear (Saranax-Coated Tyvek Suit) SCBA or Airline Respirators	
C	Splash Gear (Tyvek Suit) Half-Face Canister Respirator Safety Glasses	Boots Gloves Hard Hat
D	**Work Boots** **Gloves (Latex)** **Hard Hat**	

6.1 Action Levels

Action levels shall be determined by monitoring of work zone breathing space with a portable photoionization detector (PID) or comparable instrument. Measurement of a sustained concentration above ambient (background) conditions shall initiate action. The following criteria shall be used to determine appropriate action:

Volatile Organics in Breathing Zone (Sustained and Above Background)	Level of Respiratory Protection
0 - 5 ppm	Level D
5 - 200 ppm	Level C
200 - 1,000 ppm	Level B - Air Line
1,000+ ppm	Level B - SCBA

% Lower Explosive Limit (LEL)	Action
Above 10	Discontinue work and take remedial action

NO CHANGE TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE SITE SAFETY OFFICER AND THE PROJECT TEAM LEADER.

If the above criteria indicate the need to increase from Level D to a higher level of personal protection, work will be immediately suspended in that particular site area until the required personal protective equipment is made available, or until Level D conditions return.

7 On-Site Work Plans

The following personnel or designated alternate(s) will perform the field investigation:

- Field Team Leader: .... Ian McNamara or Designee
- Work Party .... Ian McNamara and Designee as needed to support field effort

The work party will be briefed on the contents of this plan prior to commencement of work.

8 Communication Procedures

The Project Manager should remain in communication with the Field Team Leader. A cellular phone will be used in the field.

Continuous horn blast is the emergency signal to indicate that all personnel should leave the Work Zone.

In the event that radio communications are used, the following standard hand signals will be used in case of failure of radio communications:

- Hand gripping throat .... Out of air; can't breathe
- Grip partner's wrist or both hands around waist .... Leave area immediately
- Hands on top of head .... Need assistance
- Thumbs up .... OK; I am all right; I understand

- Thumbs down .... No; negative

9 Site Health and Safety Plan

9.1 Responsibilities

The designated Site Safety Officer will have responsibility for safety recommendations on site. The Field Team Leader will be responsible for carrying out the Site Health and Safety Plan, and for enforcing it on all GHD employees engaged in site work.

9.2 Emergency Medical Care

Community Memorial Hospital is located on New York State Route 12B (Broad Street) in Hamilton, NY, approximately 1.2 miles from the site. A map of the route to this facility is available at the field vehicle and is included as Attachment A. Directions are provided below:

- Head SOUTHEAST on UTICA STREET towards Eaton Utica Square
- Slight RIGHT onto BROAD STREET
- Hospital will be on the RIGHT

First aid equipment is available on site at the following locations:

- First aid kit
- Field vehicle

List of Emergency Phone Numbers

Agency/Facility	Phone Number
Police (Village of Hamilton)	911 or 315.824.3311
Fire	911
Ambulance	911
Community Memorial Hospital	315.824.1100

9.3 Environmental Monitoring

The following environmental monitoring instruments shall be used on site at the specified intervals:

1. **MiniRAE Photoionization Detector (PID).** Continuous during installation of soil borings, groundwater monitoring wells, and soil gas monitoring probes.

2. **Dust (Particulate) Monitor.** Continuous during installation of soil borings, groundwater monitoring wells, and soil vapor probes, per Community Air Monitoring Plan (CAMP).

9.4 Emergency Procedures

The following standard procedures will be used by on-site personnel. The Site Safety Officer shall be notified of any on-site emergencies and be responsible for ensuring that the appropriate procedures are followed.

9.4.1 Personnel Injury in the Work Zone

Upon notification of an injury in the Work Zone, the designated emergency signal, a continuous horn blast, shall be sounded. A rescue team will enter the Work Zone (if required) to remove the injured person to safety. Appropriate first aid shall be initiated and contact should be made for an ambulance and with the designated medical facility (if required). No persons shall re-enter the Work Zone until the cause of the injury or symptoms is determined.

9.4.2 Fire/Explosion

Upon notification of a fire or explosion on-site, the designated emergency signal, a continuous horn blast, shall be sounded and all site personnel assembled at the decontamination line. The fire department shall be alerted and all personnel moved to a safe distance from the involved area.

9.4.3 Personal Protective Equipment Failure

If any site worker experiences a failure or alteration of protective equipment that affects the protection factor, that person and his/her buddy shall immediately leave the Work Zone. Re-entry shall not be permitted until the equipment has been repaired or replaced.

9.4.4 Other Equipment Failure

If any other equipment on site fails to operate properly, the Project Team Leader and Site Safety Officer shall be notified and then determine the effect of this failure on continuing operations on site. If the failure affects the safety of personnel or prevents completion of the Work Plan tasks, all personnel shall leave the Work Zone until the situation is evaluated and appropriate actions taken.

In all situations, when an on-site emergency results in evacuation of the Work Zone, personnel shall not re-enter until:

1. The conditions resulting in the emergency have been corrected.
2. The hazards have been reassessed.
3. The Site Health and Safety Plan has been reviewed.
4. Site personnel have been briefed on any changes in the Site Health and Safety Plan.

9.5 Personal Monitoring

The following personal monitoring will be in effect on site:

1. **Personal Exposure Sampling.** MiniRAE PID screening, sampling pumps/tubes, or organic vapor monitors.

2. **Medical Monitoring.** The expected air temperature will be less than 70°F. If it is determined that heat stress monitoring is required (mandatory if over 70°F), the following procedures shall be followed: Monitoring body temperature, body weight, and pulse rate.

Attachment A

Map from Site to Community Memorial Hospital
37 Milford Street, Hamilton, New York

Attachment A:

Map from Site to Community Memorial Hospital
New York State Route 12B (Broad Street), Hamilton, New York

Appendix D
Site-Wide Inspection Forms

SITE INSPECTION FORM

Inspections to be conducted at least semi-annually

SITE: **Former 47 Utica Street Site**

ERP # **E727011**

DATE/TIME: ____________________

WEATHER: ____________________

____

INSPECTORS NAME: ____________________

COMPANY NAME: ____________________

GENERAL SITE CONDITIONS:

Site Access Control

Change in Use

Unauthorized Activities

ENGINEERING CONTROLS

SOIL COVER

Soil Cover Condition

Vegetative Cover

Breach of the Soil Cover

Woody Grow th

Surface Settling

Burrow ing Animals

Sediment/Erosion Controls

Surface Erosion

Off-site Sediment Transport

SOIL VAPOR MITIGATION

On-Site Building Occupied YES NO

System In Place

System Operating

Component Conditions

Damaged Equipment

Identify Photos Taken:

OTHER COMMENTS:

INSPECTOR SIGNATURE: ____________________

Appendix E

Quality Assurance Project Plan

Quality Assurance Project Plan (QAPP)

47 Utica Street
Environmental Restoration Program Site
Village of Hamilton, Madison County, NY
ERP Site #E727011

March 2012

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1 Project Description

The 47 Utica Street Site (the 'Site') occupies approximately 0.27-acres along Utica Street in the Village of Hamilton, Madison County, New York. The Site has been accepted into the New York State (NYS) Environmental Restoration Program (ERP), ERP Site #E727011. The NYS ERP is administered by the New York State Department of Environmental Conservation (NYSDEC) in concert with the New York State Department of Health (NYSDOH). The Site is located in a commercial/residential area along Utica Street and is bordered by commercial properties to the north and south, residential properties to the west, and Utica Street to the east. Mixed residential and commercial properties are located across Utica Street to the east of the Site. The Site was formerly used as a single family residence, and most recently was used as a gasoline service station and automobile repair facility. A single story building is present on-Site.

The Site was investigated and remediated under the New York State ERP through an agreement with the NYSDEC. Under the ERP, a Remedial Investigation and Interim Remedial Measures were completed in accordance with the NYSDEC's Department of Environmental Remediation (DER) DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, May 2010) to provide an assessment of environmental conditions at the Site and to remediate the Site to allow for future uses.

This Quality Assurance Project Plan (QAPP) describes quality assurance objectives and the methods that will be followed for sample collection and analysis.

2 Project Organization

The organization of the project management team and areas of responsibility are presented below:

Project Principal	Damian J. Vanetti	Provide technical and administrative oversight and guidance throughout the project, assist in securing company resources, participate in technical review of deliverables, and attend key meetings as needed.
Principal Engineer	Damian J. Vanetti	Provide technical guidance and review of reports and analytical data. Will have key involvement in screening and development of remedial alternatives.
Project Manager	Donald S. Sorbello	Responsible for maintaining the day-to-day schedule for completing the fieldwork and deliverables according to schedule and for using proper field procedures.
Field Team Leader	Ian E. McNamara	Responsible for coordinating and directing field efforts of GHD staff and subcontractors.
Quality Assurance Officer (QAO)	As designated on a project specific basis	Responsible for reviewing sampling procedures and certifying that the data was collected and analyzed using the appropriate procedures.

3 QA/QC Objectives for Measurement of Data

Where NYSDOH Environmental Laboratory Accreditation Program (ELAP) Certification exists for a specific group or category of parameters, the laboratories performing analyses in connection with this project will have appropriate NYSDOH ELAP Certification. For analyses of samples where NYSDEC

Analytical Services Protocol (NYSDEC-ASP, June 2000) Category B deliverables are required, NYSDOH ELAP certification is required.

Detection limits set by NYSDEC-ASP will be used for all sample analyses unless otherwise noted. If ASP-dictated detection limits prove insufficient to assess project goals (i.e. comparison to drinking water standards or attainment of Standards, Criteria, and Guidance (SCGs)), then ASP Special Analytical Services (SAS) or other appropriate methods will be utilized.

The quality assurance/quality control objectives for all measurement data include completeness, representativeness, comparability, precision, and accuracy.

3.1 Completeness

The analyses performed must be appropriate and inclusive. The parameters selected for analysis are chosen to meet the objectives of this study.

Completeness of the analyses will be assessed by comparing the number of parameters intended to be analyzed with the number of parameters successfully determined and validated. Data must meet QC acceptance criteria for 100 percent or more of requested determinations.

3.2 Representativeness

Samples must be taken of the population and, where appropriate, the population will be characterized statistically to express the degree to which the data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process, or environmental condition.

Non-dedicated sampling devices will be cleaned between sampling points by washing and rinsing with pesticide-grade methanol, followed by a thorough rinse with distilled water. Specific cleaning techniques are described in the Field Sampling Procedure. Two types of blank samples will accompany each sample set where Target Compound List (TCL) volatiles are to be analyzed (water matrix only). A trip blank, consisting of a 40 ml VOA vial of organic-free water prepared by the laboratory, will accompany each set of sample bottles from the laboratory to the field and back. This bottle will remain sealed throughout the shipment and sampling process. This blank will be analyzed for TCL volatile organic compounds along with the groundwater samples to ensure that contamination with TCL volatile compounds has not occurred during the bottle preparation, shipment, or sampling phase of the project. In order to check for contaminant carryover when non-dedicated sampling equipment is used, a rinsate blank will be submitted to the laboratory. This blank will also be analyzed for TCL volatile organic compounds. The TCL compounds are identified in the United States Environmental Protection Agency (USEPA) Contract Laboratory Program dated 7/85 or as periodically updated. Field activities are audited by the GHD Quality Assurance Officer.

The analytical results obtained from the determination of identical parameters in field duplicate samples can be used to further assess the representativeness of the sample data.

3.3 Comparability

Consistency in the acquisition, preparation, handling and analysis of samples is necessary in order for the results to be compared where appropriate. Additionally, the results obtained from analyses of the samples will be compared with the results obtained in previous studies, if available.

To ensure the comparability of analytical results with those obtained in previous or future testing, all samples will be analyzed by NYSDEC-approved methods. The NYSDEC-ASP mandated holding times for various analyses will be strictly adhered to.

3.4 Precision and Accuracy

The validity of the data produced will be assessed for precision and accuracy. Analytical methods which will be used include gas chromatography/mass spectrometry (GC/MS), gas chromatography (GC), colorimetry, atomic spectroscopy, gravimetric, and titrametric techniques. The following outlines the procedures for evaluating precision and accuracy, routine monitoring procedures, and corrective actions to maintain analytical quality control. All data evaluations will be consistent with NYSDEC-ASP procedures. Data will be 100 percent compliant with NYSDEC-ASP requirements.

The requirements of QA/QC are both method specific and matrix dependent. The procedures to be used are described on this basis in Sections 6 and 8. The number of duplicate, spiked, and blank samples analyzed will be dependent upon the total number of samples of each matrix to be analyzed, but there will be at least one split per matrix. The inclusion and frequency of analysis of field blanks and trip blanks will be on the order of one per each Site. Samples to be analyzed for volatile organic compounds will be accompanied by trip and field blanks (water matrix).

Quality assurance audit samples will be prepared and submitted by the laboratory QA manager for each analytical procedure used. The degree of accuracy and the recovery of analyte to be expected for the analysis of QA samples and spiked samples is dependent upon the matrix, method of analysis, and compound or element being determined. The concentration of the analyte relative to the detection limit is also a major factor in determining the accuracy of the measurement. The lower end of the analytical range for most analyses is generally accepted to be five times the detection limit. At or above this level, the determination and spike recoveries for metals in water samples will be expected to range from 75 to 125 percent. The recovery of organic surrogate compounds and matrix spiking compounds determined by GC/MS will be compared to the guidelines for recovery of individual compounds as established by the United States Environmental Protection Agency Contract Laboratory Program dated 7/85 or as periodically updated.

The quality of results obtained for inorganic ion and demand parameters will be assessed by comparison of QC data with laboratory control charts for each test.

4 Sampling Procedures

4.1 Sampling Program

The soil sampling program will include the collection of soil samples from split spoon sampling devices retrieved from soil borings and from surface soil sample locations. Groundwater samples will be collected from groundwater monitoring wells, and soil vapor samples will be collected from soil vapor wells. QAPP Table 4-1 presents a summary of sample matrices, analytical methods, containers, preservation requirements, duplicates, MS/MSDs, and holding times for the sampling program.

All sampling will be done using appropriate tools and equipment for the respective environmental media based on industry standard, and constructed of stainless steel, Teflon, or other appropriate inert or approved material acceptable to NYSDEC.

All sampling will be completed in accordance with the NYSDEC approved Community Air Monitoring Plan (CAMP) and the Site Health and Safety Plan (HASP).

4.1.1 Surface Soil

Surface soil samples will be collected as described in the Work Plan. Exact locations will be dictated by field conditions, which may warrant deviations from the proposed locations. To collect a surface soil sample, a shovel blade will be used to lift the top 2" of soil out of the ground at the chosen location. A representative sample of the surface soil will be taken from the uplifted material and place in a labeled sample jar. The surface soil samples will be exclusive of any vegetative or other type of ground cover. The shovel blade will be cleaned and decontaminated between sample locations, as will all other non-dedicated hand-held sampling equipment for the project, by scrubbing with an Alconox solution followed by a thorough distilled water rinse.

Representative samples of the contained decontamination water may be field screened to determine the appropriate disposal method. Every effort will be made to minimize the generation of contaminated water.

4.1.2 Drilling/Sub-Surface Soil Sampling Procedures

Test borings shall be completed using the hollow stem auger drilling method for overburden drilling, and spun casing and NX-coring methods for bedrock drilling, to a depth specified by GHD field personnel.

Hollow stem auger drilling utilized for monitoring well completion will require a minimum 4-1/4 inch inside auger diameter. Samples of the encountered subsurface materials shall be collected continuously with two-foot sample intervals. The sampling method employed shall be ASTM D-1586/Split Barrel Sampling using a standard 2-foot long, 2-inch outside diameter split- spoon sampler with a 140-pound hammer. Each split spoon soil sample will be tested for volatiles in the field using a PID prior to removing the samples from the opened split spoon, to minimize off-gassing of VOCs caused by sample handling. VOC levels will be measured within ¼ inch of the collected soil sample as it sits in the split spoon immediately after the split spoon is opened. Upon retrieval of the sampling barrel, the collected sample shall be placed in glass jars and labeled, stored on Site (on ice in a cooler if necessary), and transmitted to the appropriate testing laboratory or storage facility. Chain-of-custody procedures will be practiced following Section 15, EPA-600/4-82-029, Handbook for Sampling and Sample Preservation of Water and Waste Waters.

Bedrock borings will be completed by a combination of spun casing through the overburden, followed by core drilling through bedrock. Six-inch diameter black iron casing will be advanced two feet into the upper weathered bedrock zone (Figure 4-1), and grouted in place. After the grout has cured overnight, drilling will resume using a core barrel, attached at the bottom of a string of rods, which will be rotated and advanced through the grouted casing and a minimum of ten feet into the underlying bedrock. Core samples of rock material will be retrieved from the rock borings. Potable water will be used as needed to cool the cutting bit and carry cuttings to ground surface.

A geologist will be on Site during the drilling operations to fully describe each soil and rock sample retrieved from the borings. Overburden soil samples will be described following the New York State Soil Description Procedure. Bedrock cores will be examined for evidence of fracturing, and will be assigned rock quality designations (RQDs), which shall be defined as the sum total length of rock fragments greater than 4 inches, divided by the total core run length.

The drilling contractor will be responsible for obtaining accurate and representative samples, informing the geologist of changes in drilling pressure, keeping a separate general log of soils encountered including blow counts [i.e., the number of blows from a soil sampling drive weight (140 pounds)] required to drive the split-spoon sampler in 6-inch increments and installing monitoring wells to levels directed by the supervising geologist following specifications further outlined in this protocol.

4.1.3 Monitoring Well Completion

Monitoring wells will be constructed of 10 feet of 2-inch diameter 0.010-inch slot size PVC well screen and riser casing that will extend from the screened interval to the existing grade. Other materials utilized for completion will be washed silica sand (Q-Rock No. 4 or approved equivalent) bentonite grout, Portland cement, and a protective steel locking well casing and cap with locks. Well construction diagrams for both overburden and bedrock wells are shown on QAPP Figure 4-1.

The monitoring well installation method for wells installed within unconsolidated sediments shall be to place the screen and riser assembly into the casing once the screen interval has been selected. At that time, a washed silica sand pack will be placed around the well screen if required to prevent screen plugging. If a sand pack is not warranted, the auger string will be pulled back to allow the native aquifer material to collapse 2 to 3 feet above the top of the screen. Bentonite pellets will then be added to the annulus between the casing and the inside auger to insure proper sealing. Cement/bentonite grout will continue to be added during the extraction of the augers until the entire aquifer thickness has been sufficiently sealed off from horizontal and/or vertical flow above the screened interval. During placement of sand and bentonite pellets, frequent measurements will be made to check the height of the sand pack and thickness of bentonite layers by a weighted drop tape measure.

A vented protective steel casing shall be located over the standpipe extending 2 feet below grade and 2 to 3 feet above grade, secured by a Portland cement seal. The cement seal shall extend laterally at least 1 foot in all directions from the protective casing and shall slope gently away to drain water away from the well. A vented steel cap will be fitted on the protective casing. The cap shall be constructed so it may be secured with a steel lock.

Bedrock wells will be of a double-cased design (QAPP Figure 4-1), constructed of the same materials as the shallow overburden wells, including PVC screens and risers, with sand packs and bentonite/grout seals. The bedrock wells will be installed within the grouted iron casing that has been keyed into bedrock, with slotted PVC well screen and sand filter pack placed in the open bedrock borehole.

4.1.4 Well Development

All existing and newly installed monitoring wells will be developed or cleared of all fine-grained materials and sediments that have settled in or around the well during installation so that the screen is transmitting representative portions of the groundwater. The development will be by either pumping or bailing, in combination with surging, the goal being to produce relatively sediment-free groundwater samples.

A submersible bladder pump, or dedicated bailer lowered by rope, will be used to develop the wells. The pump or bailer will be subsequently decontaminated after each use following procedures outlined in the Decontamination Protocol. If a dedicated bailer is used, no decontamination of the bailer is necessary. Pumping or bailing will continue for 10 well volumes, when the turbidity falls below 50 NTUs, or until specific conductivity, pH, and temperature are stable (i.e., consecutive readings are within 10 percent with no overall upward or downward trends in measurements). The decision to stop well development at a turbidity level above 50 NTUs will be made only after consultation with the NYSDEC. Periodically, bailing/pumping will be interrupted by periods of surging, during which a bailer will be raised and lowered in a plunger-like fashion, to repeatedly draw in and expel water through the well screen. Well development water will be disposed of on the ground surface at each well location or contained in drums, as conditions warrant.

4.1.5 Decontamination

All drilling equipment and associated tools including augers, drill rods, sampling equipment, wrenches and any other equipment or tools that have come in contact with contaminated materials will be decontaminated before any drilling on Site begins, between each well, and prior to removing any equipment from the Site. The preferred decontamination procedure will be to use a high pressure steam cleaner to remove soils and volatile organics from the equipment. The water used for this procedure will be contained and shall come from a controlled source, preferably a municipal drinking supply. Representative samples of the contained decontamination water and well development water will be screened in the field to determine the proper method of disposal. Every effort will be made to minimize the generation of contaminated water.

4.1.6 Groundwater Sampling Program

A. **Well Evacuation.** Prior to sampling a monitoring well, the static water level will be recorded and the wells evacuated to assure that the water in the well is truly representative of the groundwater. All well data will be recorded on a field sampling record. For shallow wells or deep wells with a relatively low static water level, evacuation will be accomplished by using a stainless steel or teflon bailer with a ball check valve at its lower end. A bladder pump may be used to evacuate the deeper wells at a rate of approximately 1 gpm. Water samples to be analyzed for volatile organics must be sampled by bailer.

B. **Sampling Procedure.** Groundwater samples for volatile organic compound (VOC) analysis will be collected using either stainless steel, teflon, or disposable polyethylene bailers with a ball check valve at the lower end. Incorporation of a check valve onto the bailers assures that a sample is representative of the depth to which the bailer is lowered. All samples will be removed from a depth just above the well screen to further assure a representative groundwater sample. Before and after sampling, the sampling device will be cleaned inside and out with soapy water, methanol, and then rinsed with distilled deionized water. If a disposable dedicated bailer is used for each well, then decontamination of the bailers is not necessary. Sampling procedures by bailer are summarized on QAPP Table 4-2.

   Groundwater samples for parameters other than VOCs will be collected using a low stress (low flow) purge and sampling method, utilizing either a submersible bladder pump, or a peristaltic pump with dedicated tubing. The purpose of low stress purging and sampling is to collect groundwater samples from monitoring wells that are representative of groundwater conditions within a discrete vertical interval of the geologic formation. This is accomplished by setting the intake velocity of the sampling pump to a flow rate that limits drawdown within the well casing, thereby drawing in water from immediately adjacent to the pump intake, and minimizing disturbance of sediments to produce a low turbidity sample. Sampling procedures by low-flow methods are summarized on Table 4-3.

   If low flow sampling techniques for groundwater samples collected for metals analysis do not yield turbidities of less than 50 Nephelometric Turbidity Units (NTUs) then alteration (i.e. filtration) of the groundwater sample may be required. NYSDEC DER-10 defines filtration as "the filtering of a groundwater or surface water sample, collected for metals analysis, at the time of collection and prior to preservation. Filtering includes, but is not limited to, the use of any membrane, fabric, paper, or other filter medium, irrespective of pore size, to remove particulates from suspension." Alteration of groundwater samples must be approved by NYSDEC prior to collecting filtered samples. Alteration will only be approved if:

- the target turbidity level of 50 NTUs is, or will be, exceeded
- the well being sampled was properly designed, installed, constructed, developed, maintained, and sampled
- attempts have been made to repurge and/or redevelop the well
- replacement of the well, with documentation of proper well construction and installation where necessary, has been considered and is not justified

Alteration requests must include a justification for alteration, which includes:

- a filtering protocol which is consistent with the methods in the November 1986 Environmental Protection Agency document entitled Test Methods for Evaluating Solid Waste (EPA-SW846)
- a filtration methodology that minimizes changes in the water chemistry of the sample
- a provision that any precipitates which may form upon removal of the sample from the well (i.e., iron floc) must not be filtered out, but dissolved by acid/preservation
- a provision that a filtered sample will not be collected without an accompanying unfiltered sample

Once alteration of a groundwater sample has been approved, the following steps must be followed during collection of any filtered sample:

- samples must be collected using a minimally disturbing method (i.e. low flow bladder or peristaltic pumping)
- the turbidity of the sample must be recorded at the time of sampling
- two samples must be collected, one unaltered and one filtered

In addition to water samples collected from the monitoring wells, two types of "blanks" will be collected and submitted to the chemical laboratory for analyses. The blanks will consist of 40 ml VOA vials, as follows:

1. **Trip Blank.** A trip blank will be prepared before the sample bottles are sent by the laboratory. It consists of a sample of distilled, deionized water which accompanies the other sample bottles into the field and back to the laboratory. A trip blank will be included with each shipment of samples where sampling and analysis for TCL volatiles is planned (water matrix only). The trip blank will be analyzed for TCL volatile organic compounds as a measure of the internal laboratory procedures and their effect on the results.

2. **Field (Wash) Blanks.** Field wash blanks are analyzed to check the effectiveness of decontamination. Each sample consists of distilled deionized water (prepared by the laboratory) poured through a decontaminated bailer or other sampling apparatus. It is usually collected as a last step in the decontamination procedure prior to sampling of a monitoring well. The wash blank can be analyzed for all or some of the compounds which the subsequent monitoring well sample is scheduled for.

4.1.7 Soil Vapor Sampling

Soil vapor sampling will be conducted in accordance with NYSDOH Guidance for Evaluating Indoor Air Intrusion in the State of New York (October 2006 or most current version). Soil vapor samples will be collected in the vadose zone from shallow (5 feet) well points. Each well point will be installed in a shallow boring drilled either by hand-operated equipment (e.g. hand auger or percussion hammer drill), or by a small truck-mounted drill rig. Drilling equipment used shall be based on soil conditions, and the method that provides the most practical approach.

Each well point will consist of an inert sampling tube (polyethylene, stainless steel, or Teflon®) with a 6-inch screened section at the bottom through which soil vapors can be sampled. A sampling zone will be created around the screened section by backfilling with 1 to 2 feet of porous course sand or glass beads, and at least three feet of bentonite will be placed above the porous sampling zone to form a seal from the surface. Native clean soil will be packed around the remaining annulus to the ground surface. QAPP Figure 4-2 shows a schematic of the soil vapor well design.

Each designated soil vapor sampling location will be purged of a minimum of three volumes using a low volume pump, and then attached to a regulator, and secured with a clamp. The regulator will then be attached to a 1-liter summa canister.

The regulator will be set to collect a soil vapor sample at a flow rate of less than 0.2 liters per minute. After the summa canister is filled, the valve will be closed.

Each canister will be listed according to a specific sample I.D. on a chain of custody form. Sample canisters will be delivered to the laboratory within 24 hours, and analyzed for VOCs by method TO-15. The detection limit for VOCs will be 1 µg/m3 or less.

The soil vapor sampling effort will include the use of inert helium tracer gas to verify that the soil vapor samples are not diluted by ambient air. The atmosphere around the sampling tube will be enriched with the tracer gas, and the soil vapor sample will be collected in the presence of the enriched tracer atmosphere. This will be accomplished by placing an inverted plastic pail over the sampling point, and filling the pail with the tracer gas via a small tube penetrating the side of the pail. QAPP Figure 4-3 includes the tracer gas setup. After the soil vapor sample is collected via summa canister, a second soil vapor sample will be collected using a syringe, and analyzed in the field for helium gas, to see if some of the tracer may have been inadvertently drawn into the gas probe during the sampling process.

Weather conditions in the 48 hours prior to the test, and during the test, will be noted, including average wind speed, precipitation, temperature, and barometric pressure. Soil vapor sampling procedures are summarized in QAPP Table 4-4.

4.1.8 Indoor and Outdoor Air Sampling

Indoor and outdoor air sampling will be conducted in accordance with NYSDOH Guidance for Evaluating Indoor Air Intrusion in the State of New York (October 2006 or most current version). The air samples will be collected on a cold heating season day. The heating system of the building will be in “normal” operation (i.e., maintaining a temperature between 60°F and 70°F) for at least 24 hours prior to and during the sample collection time.

The samples will be collected using evacuated 3-liter summa canisters. Flow regulators will maintain the low-flow intake of ambient air into the canister, over an 8-hour period, to approximate ambient air concentrations for a typical work shift. The flow intake will not exceed 0.2 liters per minute.

The summa canisters for indoor sampling will be placed in a central portion of the selected room(s), away from exterior walls, windows, vents, drains, and ducts. Areas with known or suspected sources of VOCs (e.g. chemical storage areas, petroleum-using equipment and machines, etc.) will be avoided. The canisters will be placed at least 3 feet off of the floor and at least one foot away from the ceiling, so that breathing-level air is sampled.

Sampling will be conducted in the lowest occupied building space. A pre-sampling inspection will be conducted prior to the sampling event to identify and minimize conditions that may interfere with the testing. The inspection will evaluate the type of structure, floor layout, air flows, and physical conditions of the building being studied. This information, along with information on potential sources of indoor air contamination will be identified on a building inventory form, completed as part of the comprehensive indoor air quality questionnaire included in the NYSDOH Guidance.

An outdoor air sample will be collected upwind of the building, in an area free of wind obstructions (tress, bushes), and away from potential contaminant sources (automobiles, gas stations, storage tanks, etc.), at a height above the ground to represent breathing zones (3 to 5 feet high).

The summa canisters will be shipped to a New York State certified laboratory for volatile organic compounds (VOCs) analysis by EPA method TO-15. The detection limit for analysis will be 0.25 micrograms per cubic meter for TCE, and 1.0 microgram per cubic meter for other VOCs.

4.2 Sample Preservation and Shipment

Since all bottles provided by the laboratory will contain the necessary preservatives as shown in QAPP Table 4-1, they need only be filled. The 40 ml VOA vials must be filled brim full with no air bubbles. The other bottles should be filled to within about 1 inch from the top.

The bottles will be sent from the laboratory in coolers which will be organized on a per Site basis. Following sample collection, the bottles should be placed on ice in the shipping cooler. The samples will be cooled to 4°C, but not frozen.

Final packing and shipment of coolers will be performed in accordance with guidelines outlined in the "User's Guide to the CLP."

5 Sample Custody

The program for sample custody and sample transfer is in compliance with the NYSDEC-ASP, as periodically updated. If samples may be needed for legal purposes, chain-of-custody procedures, as defined by NEIC Policies and Procedures (USEPA-330/9-78-001-R) will be used. Sample chain-of-custody is initiated by the laboratory with selection and preparation of the sample containers. To reduce the chance for error, the number of personnel handling the samples should be minimized.

5.1 Field Sample Custody

A chain-of-custody record accompanies the sample from initial sample container selection and preparation at the laboratory, shipment to the field for sample containment and preservation, and return to the laboratory. Two copies of this record follow the samples to the laboratory. The laboratory maintains one file copy and the completed original is returned to the Site inspection team. Individual sample containers provided by the laboratory are used for shipping samples. The shipping containers are insulated and chemical or ice water is used to maintain samples at approximately 4°C (39.4°F) until samples are returned and in the custody of the laboratory. All sample bottles within each shipping container are individually labeled and controlled. Samples are to be shipped to the laboratory within 24 to 48 hours of the day of collection.

Each sample shipping container is closed and sealed. This seal must be broken to open the container. Tampering is possible if the seal is broken before receipt at the laboratory. The laboratory will contact the Site investigation team leader and the sample will not be analyzed if tampering is apparent.

5.2 Laboratory Sample Custody

The Site investigation team leader or Project Quality Assurance Officer notifies the laboratory of upcoming field sampling activities and the subsequent transfer of samples to the laboratory. This notification will include information concerning the number and type of samples to be shipped as well as the anticipated date of arrival.

The laboratory sample program meets the following criteria:

1. The laboratory has designated a sample custodian who is responsible for maintaining custody of the samples and for maintaining all associated records documenting that custody.

2. Upon receipt of the samples, the custodian will check the original chain-of-custody documents and compare them with the labeled contents of each sample container for correctness and traceability. The sample custodian signs the chain-of-custody record and records the date and time received.

3. Care is exercised to annotate any labeling or descriptive errors. In the event of a discrepancy in the documentation, the laboratory will immediately contact the Site investigation team leader as part of the corrective action process. A qualitative assessment of each sample container is performed to note any anomalies, such as broken or leaking bottles. This assessment is recorded as part of the incoming chain-of-custody procedure.

4. The samples are stored in a secured area at a temperature of approximately 4°C (39.4°F) until analyses are to commence.

5. A laboratory chain-of-custody record accompanies the sample or sample fraction through final analysis for control.

6. A copy of the chain-of-custody form will accompany the laboratory report and will become a permanent part of the project records.

5.3 Final Evidence Files

Final evidence files include all originals of laboratory reports and are maintained under documented control in a secure area.

A sample or an evidence file is under custody if:

1. It is in your possession; it is in your view, after being in your possession.
2. It was in your possession and you placed it in a secure area.
3. It is in a designated secure area.

6 Calibration Procedures

Instruments and equipment used to gather, generate or measure environmental data will be calibrated with sufficient frequency and in such a manner that accuracy and reproducibility of results are consistent with the appropriate manufacturer's specifications or project specific requirements. The procedures for instrument calibration, calibration verification, and the frequency of calibrations are described in the NYSDEC-CLP. The calibration of instruments used for the determination of metals will be as described in the appropriate CLP standard operating procedures.

Calibration of other instruments required for measurements associated with these analyses will be in accordance with the manufacturer's recommendations and the standard operating procedures of the laboratory.

7 Analytical Procedures

Analytical procedures shall conform to the most recent revision of the NYSDEC-ASP and are summarized on QAPP Table 7-1. In the absence of USEPA or NYSDEC guidelines, appropriate procedures shall be submitted for approval by NYSDEC prior to use.

The procedures for the sample preparation and analysis for organic compounds are as specified in the NYSDEC-ASP. Analytical cleanups are mandatory where matrix interferences are noted. No sample shall be diluted any more than 1 to 5. The sample shall be either extracted again, sonicated again, stream distilled again, etc. or be subjected to any one analytical cleanup noted in SW846 or a combination thereof. The analytical laboratory shall expend such effort and discretion to demonstrate good laboratory practice and demonstrate an attempt to best achieve the method detection limit.

7.1 Volatile Organic Compounds (VOCs)

For the analysis of water samples for Target Compound List (TCL), volatile organic compounds (VOCs), no sample preparation is required. The analytical procedure for volatiles is detailed in NYSDEC-ASP (Volume I, Section D-I). A measured portion of the sample is placed in the purge and trap apparatus and the sample analysis is performed by gas chromatography/mass spectrometry for the first round. USEPA Methods 8010 or 8020 (gas chromatography with different detectors) will be used if subsequent rounds with lower limits of detection are warranted. Air analyses will be complete by EPA Method TO-15 (gas chromatography/mass spectrometry).

7.2 Semi-Volatile Organic Compounds

The extraction and analytical procedures used for preparation of water, soil and sediment samples for the analysis of the TCL semi-volatile organic compounds are described in NYSDEC-ASP Volume I, Section D-III.

Instrument calibration, compound identification, and quantitation are performed as described in Section 6 of this document and in the NYSDEC-ASP.

7.3 Pesticide and PCB Compounds

The sample preservation procedures for gas chromatography for pesticides and PCBs will be as described in the NYSDEC-ASP methods (Section D-IV). The analysis of standard mixes, blanks and spiked samples will be performed at the prescribed frequency with adherence to the 72-hour requirement described in the method.

7.4 Metals

Water, soil and sediment samples will be analyzed for the metals listed in Table 7-1. The detection limits for these metals are as specified in the NYSDEC-ASP, Section D-V. The instrument detection limits will be determined using calibration standards and procedures specified in the NYSDEC-ASP. The detection limits for individual samples may be higher due to the sample matrix. The procedures for these analyses will be as described in the NYSDEC-ASP.

The digestion procedures for water samples are not recommended for samples requiring analysis for mercury, arsenic (As) or selenium (Se). The aliquot of sample analyzed for As and Se will be prepared using methods described in USEPA Methods 200.7. Analysis for mercury requires a separate digestion procedure (245.1 or 245.2).

The analyses for metals will be performed by atomic absorption spectroscopy (AAS), inductively coupled plasma emission spectroscopy (ICP-ES), or inductively coupled plasma mass spectrometry (ICP-MS), as specified in the ASP with regard to AAS flame, ICP-ES, or ICP-MS analysis.

7.5 Site Specificity of Analyses

Work plans prepared for remedial investigation waste Sites contain recommendations for the chemical parameters to be determined for each Site. Thus, some or all of the referenced methods will apply to the analysis of samples collected at the individual waste Sites. Analyses of Target Compound List (TCL) analytes will be performed on all samples.

8 Internal Quality Control

8.1 Quality Assurance Batching

Each set of samples will be analyzed concurrently with blanks, matrix spikes, surrogate spikes and replicate at the frequency described in the NYSDEC-ASP.

8.2 Organic Standards and Surrogates

All standard and surrogate compounds are checked by the method of mass spectrometry for correct identification and gas chromatography for degree of purity and concentration. When the compounds pass the identity and purity tests, they are certified for use in standard and surrogate solutions. Concentrations of the solutions are checked for accuracy before release for laboratory use. Standard solutions are replaced monthly or earlier based upon indications of deterioration.

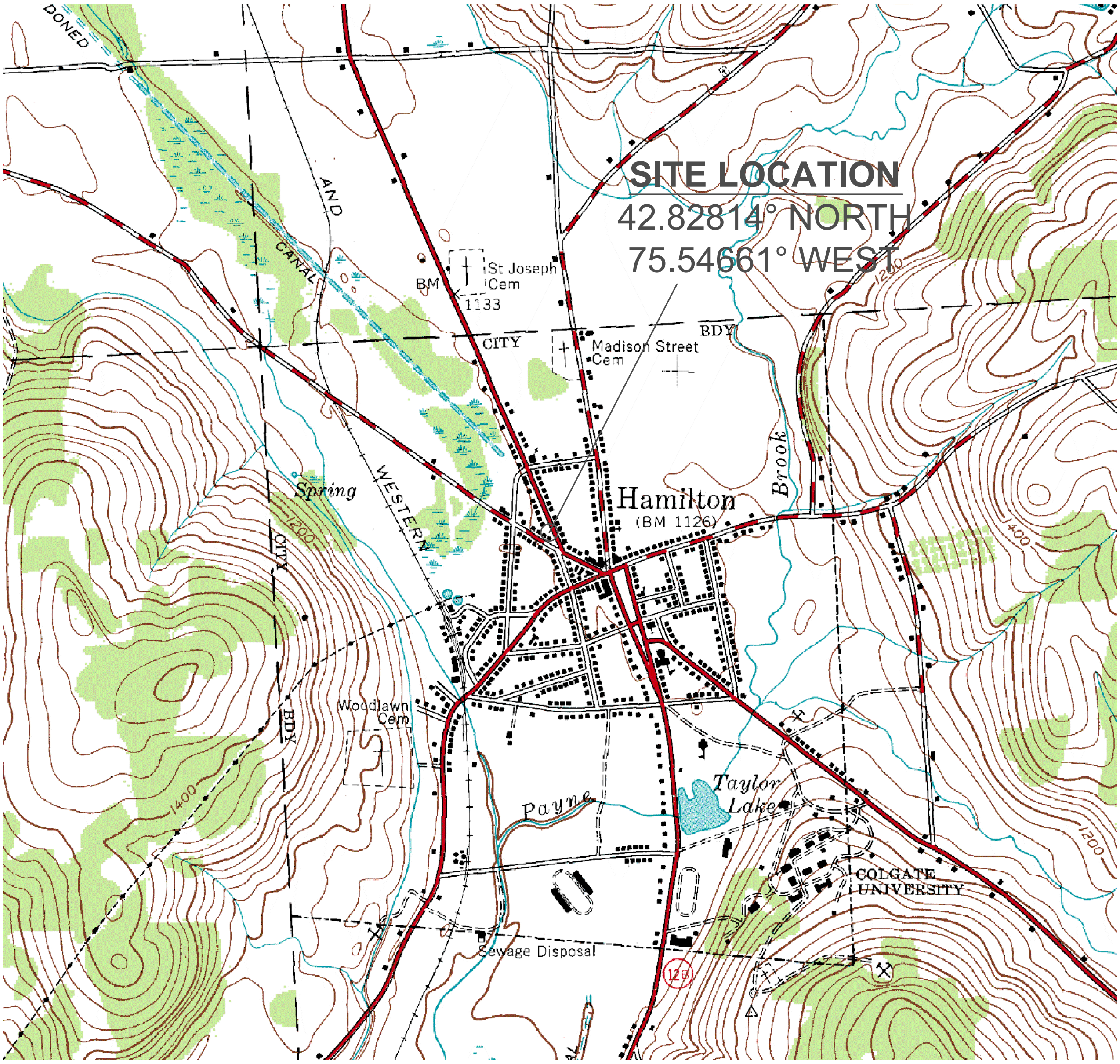
8.3 Organic Blanks, Spiked Blank and Matrix Spike

Analysis of blank samples verifies that the analytical method does not introduce contaminants. The blank water can be generated by reverse osmosis and Super-Q filtration systems, or distillation of water containing $KMnO_4$. The spiked blank is generated by addition of standard solutions to the blank water. The matrix spike is generated by addition of standard solutions to the blank water. The matrix spike is generated by addition of surrogate standard to each sample.

8.4 Trip and Field Blanks

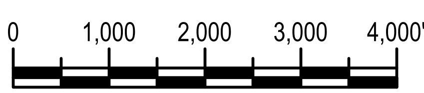
Trip blanks and field blanks will be utilized in accordance with the specifications in Section 4 of this QA/QC Project Plan. These blanks will be analyzed to provide a check on sample bottle preparation and to evaluate the possibility of atmospheric or cross contamination of the samples.

FIGURES

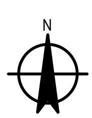


CONTOUR INTERVAL: 20 FEET

MAP TAKEN FROM: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE
HAMILTON (1943, PHOTOINSPECTED 1976)
(www.nysgis.state.ny.us/quads/usgsdrg.htm)



SCALE 1"=2,000' AT ORIGINAL SIZE



GHD

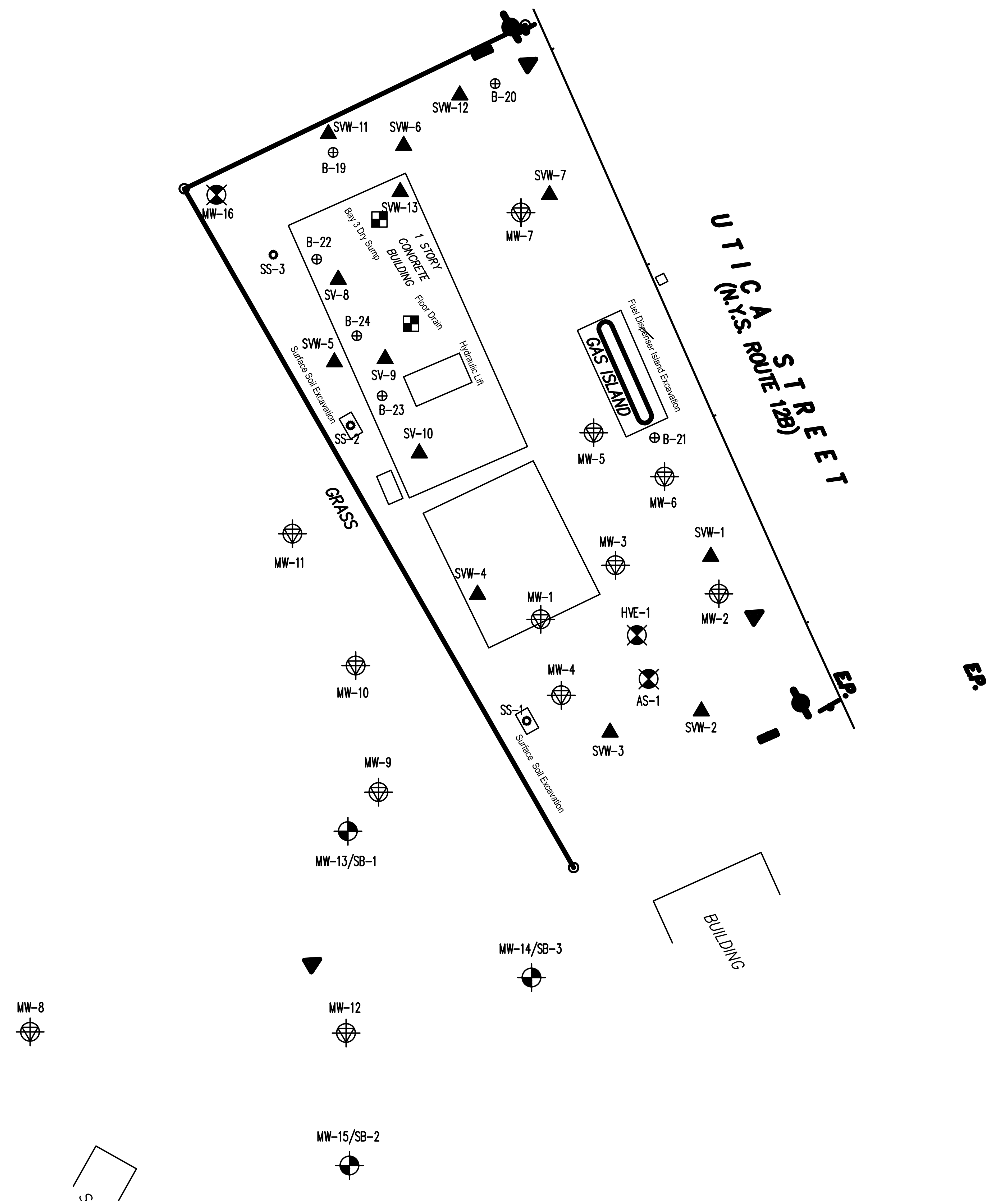
Madison County
47 Utica Street
ERP Site # E727011
Site Location Map

Job Number	86-12051
Revision	A
Date	03.12.12

Figure 1-1

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 12 March 2012 - 12:51 PM Cad File No: L:\Environment\Projects\86-12051\SMP\QAPP\86-12051-D1-1.cadd.dwg



LEGEND:

- GROUNDWATER MONITORING WELL (2006)
- GROUNDWATER MONITORING WELL (2002)
- SOIL VAPOR MONITORING WELL (2006)
- SOIL BORING (2006)
- SURFACE SOIL SAMPLE (2006)
- LOCATION OF FORMER USTs (APPROXIMATE)
- AREA OF EXCAVATION (APPROXIMATE)

MONITORING WELL LOCATIONS 2, 3, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, HVE-1 & AS-1, & ALL SOIL VAPOR WELL LOCATIONS WERE SURVEYED (BRYANT, 2006). ALL OTHER SAMPLE LOCATION ARE APPROXIMATE.

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

GHD

CLIENTS | PEOPLE | PERFORMANCE

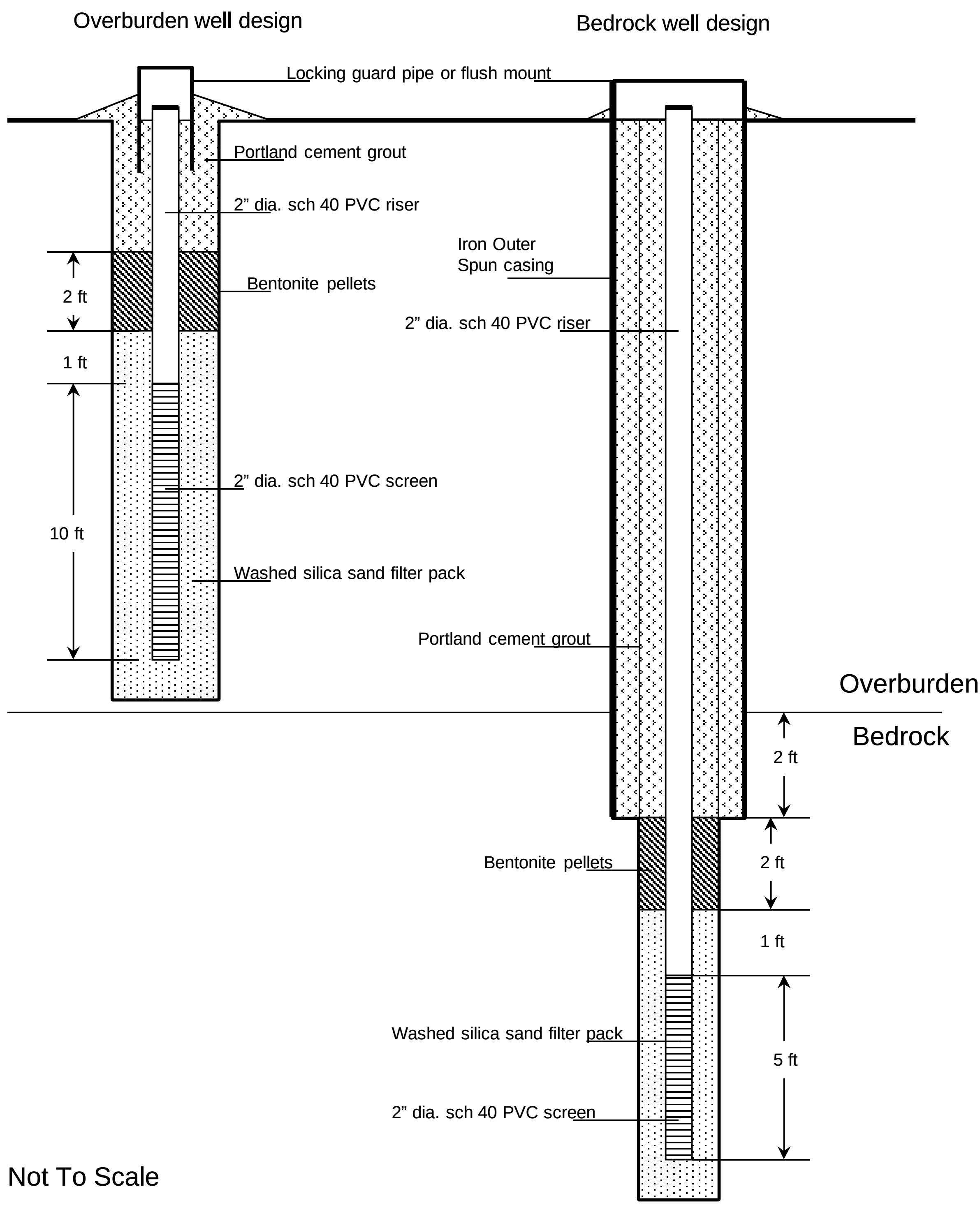
Madison County
47 Utica Street
ERP Site # E727011
Site Layout and Sample Locations

Job Number	86-12051
Revision	A
Date	03.12.12

Figure 1-2

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 12 March 2012 - 12:53 PM Cad File No: L:\Environment\Projects\86-12051\SMP\QAPP\86-12051-D1-2.cadd.dwg

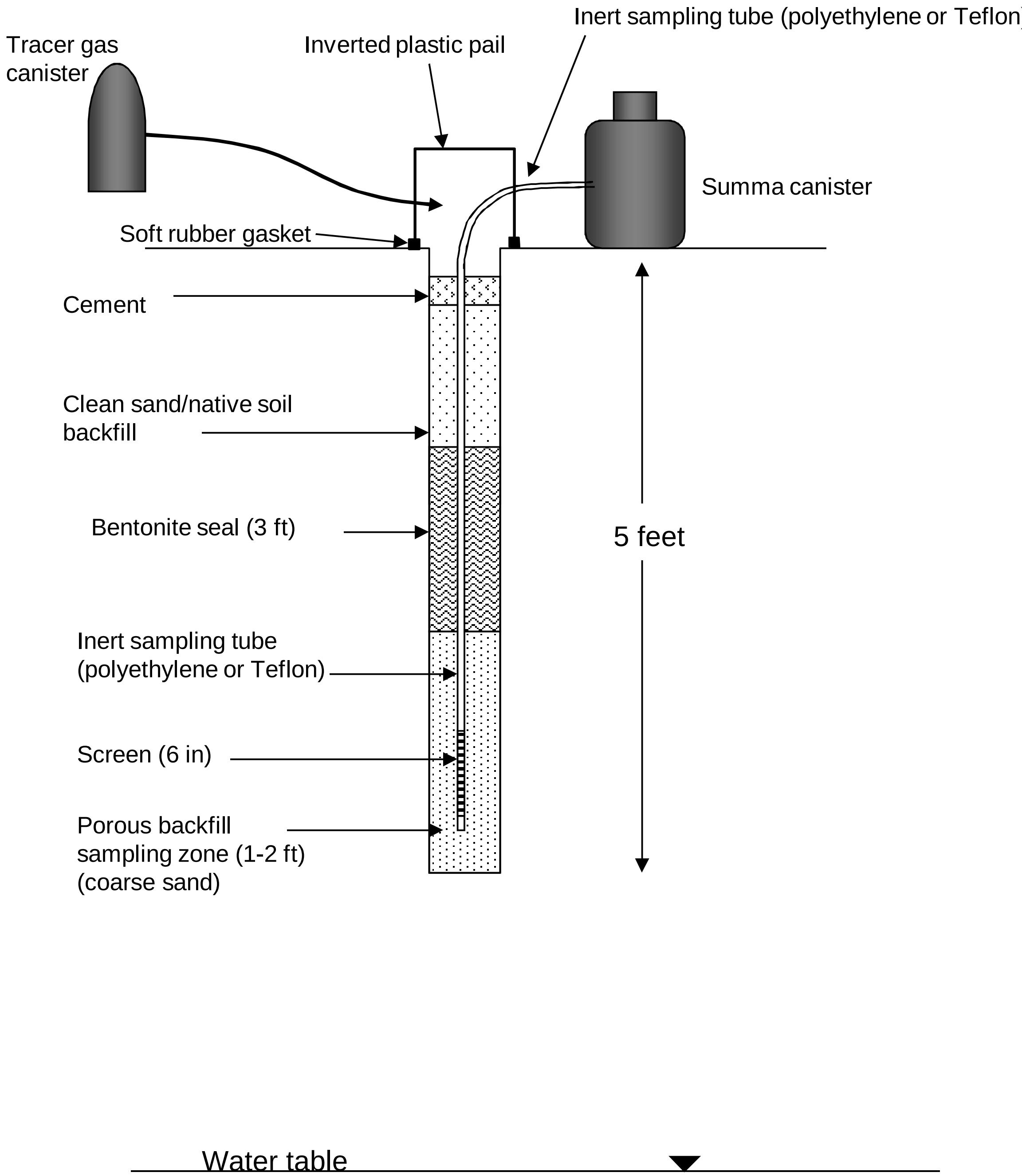


Syracuse, New York

Date: 3/2012 JOB No: 86-12051

47 Utica Street ERP Site
Quality Assurance Project Plan
Hamilton, New York

FIGURE 4-1
CONCEPTUAL WELL DETAILS



NOT TO SCALE

Syracuse, New York

Date: 3/2012 JOB No: 86-12051

47 Utica Street ERP Site
Quality Assurance Project Plan
Hamilton, New York

FIGURE 4-2
SOIL VAPOR SAMPLING WELL

TABLES

Table 4-1
Sampling Containerization

Analysis	EPA Method	Bottle Type and Size	No. of Containers	Preservative	Holding Time
Soil and Sediment					
TCL VOCs	8260	2 oz. glass soil jar	1	None	7 days until extraction 40 days after extraction
TCL SVOCs	8270	8 oz. glass soil jar	1	None	7 days until extraction 40 days after extraction
PCBs	8082	8 oz. glass soil jar	1	None	7 days until extraction 40 days after extraction
TAL Metals	6010 7471	8 oz. glass soil jar	1	None	6 months
Pesticides	8081A	8 oz. glass soil jar	1	None	7 days until extraction 40 days after extraction
Total Organic Carbon (Seds only)	8081A	8 oz. glass soil jar	1	None	7 days until extraction 40 days after extraction
Duplicate MS/MSD	One duplicate and one MS/MSD shall be collected for each parameter at a frequency of 1 per 20 samples. MS/MSD shall be labeled with the well number, location, date, and time of collection. Duplicate shall be identified only as “Duplicate.”				
All of the above except VOCs may be collected together in a single 8 oz. jar. All containers must be labeled with the sample number, location, date, and time collected. All samples must be chilled to 4ºC (39.4ºF).					
Water					
TCL VOCs	8260	40 ml VOC Vial	1	HCl	7 days until extraction 40 days after extraction
TCL SVOCs	8270	1 Liter Amber Bottle	2	None	7 days until extraction 40 days after extraction
PCBs	8082	1 Liter Amber Bottle	2	None	7 days until extraction 40 days after extraction
TAL Metals	6010 7470	500 ml Plastic Jar	1	HNO_3	6 Months
Pesticides	8081A	1 Liter Amber Bottle	2	None	7 days until extraction 40 days after extraction
Trip Blank	8260	40 ml VOC Vial	1	HCL	7 days until extraction 40 days after extraction
Duplicate MS/MSD	One duplicate and one MS/MSD shall be collected for each parameter at a frequency of 1 per 20 samples. MS/MSD shall be labeled with the well number, location, date, and time of collection. Duplicate shall be identified only as “Duplicate.”				
Trip Blanks will be collected at a frequency of 1 per 20 samples for samples being analyzed for volatiles. SVOCs, PCBs, and Pesticides may be collected together in three 1-liter amber bottles. Duplicate will require three additional 1-liter amber bottles. All samples must be chilled to 4ºC (39.4ºF). All containers except the duplicate must be labeled with the sample number, location, date, and time of collection.					
Air					
VOCs	TO-15	Summa Cannister	1	NA	30 Days
Duplicate MS/MSD	One duplicate and one MS/MSD shall be collected for each parameter at a frequency of 1 per 20 samples. MS/MSD shall be labeled with the well number, location, date, and time of collection. Duplicate shall be identified only as “Duplicate.”				
All containers except the duplicate must be labeled with the sample number, location, date, and time of collection.					

Table 4-2

Sampling Procedure for Monitoring Wells

1. Initial static water level recorded with an electric contact probe accurate to the nearest 0.1 foot.

2. Sampling device and electric contact probe decontaminated.

   - Sampling device and probe are rinsed with pesticide-grade methanol and distilled water.

   - Methanol is collected into a large funnel which empties into a 5-gallon container.

3. Sampling device lowered into well.

   - Bailer lowered by dedicated PVC or polypropylene line.

4. Sample taken.

   - Sample is poured slowly from the open end of the bailer and the sample bottle tilted so that aeration and turbulence are minimized.

   - Duplicate sample is collected when appropriate.

5. Samples are capped, labeled and placed in laboratory coolers with ice packs or bagged ice.

6. All equipment is cleaned with successive rinses of pesticide-grade methanol and distilled water.

   - Dedicated line is disposed of or left at well site.

7. Equipment/wash blanks are collected when non-dedicated sampling equipment is used.

8. Chain-of-custody forms are completed in triplicate.

   - The original and one carbon copy are put into a zip-lock bag and placed into the cooler. The original will be returned following sample analysis.

   - A second carbon copy is kept on file.

9. Cooler is sealed with strapping tape and chain-of-custody seals to assure integrity and to prevent tampering of sample.

Table 4-3

Sampling Procedure for Monitoring Wells
Using Low-Stress (Low-Flow) Methods

1. Initial static water level recorded with an electric contact probe accurate to the nearest 0.1 foot.

2. Sampling device is lowered into well. Slowly lower the pump, safety cable, tubing and electrical lines into the well to the depth specified for that well. Pump intake must be no less than 2 feet from the bottom of the well to prevent disturbance and resuspension of sediments which may be at the bottom of the well.

3. Measure water level again: Before starting the pump, measure the water level again with the pump in the well. Leave the water level measuring device in the well.

4. Purge Well: Start pumping the well at 200 to 500 milliliters per minute (ml/min). The water level should be monitored approximately every five minutes. Ideally, a steady flow rate should be maintained that results in a stabilized water level (drawdown of 0.3 ft or less). Pumping rates should, if needed, be reduced to the minimum capabilities of the pump to ensure stabilization of the water level. As noted above, care should be taken to maintain pump suction and to avoid entrainment of air in the tubing. Record each adjustment made to the pumping rate and the water level measured immediately after each adjustment.

5. Monitor Indicator Parameters: During purging of the well, monitor and record the field indicator parameters (turbidity, temperature, specific conductance, pH, Eh, and DO) approximately every five minutes. The well is considered stabilized and ready for sample collection when the indicator parameters have stabilized for three consecutive readings as follows (Puls and Barcelona, 1996):

   - +0.1 for pH
   - +3% for specific conductance (conductivity)
   - +10 mv for redox potential
   - +10% for DO and turbidity

6. Dissolved oxygen and turbidity usually require the longest time to achieve stabilization. The pump must not be removed from the well between purging and sampling.

7. Collect Samples: Collect samples at a flow rate between 100 and 250 ml/min and such that drawdown of the water level within the well does not exceed the maximum allowable drawdown of 0.3 ft. VOC samples must be collected first and directly into sample containers. All sample containers should be filled with minimal turbulence by allowing the ground water to flow from the tubing gently down the inside of the container.

8. Ground water samples to be analyzed for volatile organic compounds (VOCs) require pH adjustment. The appropriate EPA Program Guidance should be consulted to determine whether pH adjustment is necessary. If pH adjustment is necessary for VOC sample preservation, the amount of acid to be added to each sample vial prior to sampling should be determined, drop by drop, on a separate and equal volume of water (e.g., 40 ml). Groundwater purged from the well prior to sampling can be used for this purpose.

9. Remove Pump and Tubing: After collection of the samples, the tubing, unless permanently installed, must be properly discarded or dedicated to the well for resampling by hanging the tubing inside the well.

Table 4-3

Sampling Procedure for Monitoring Wells Using Low-Stress (Low-Flow) Methods

10. Measure and record well depth.

11. Close and lock the well.

12. Samples are capped, labeled and placed in laboratory coolers with ice packs or bagged ice.

13. All equipment is cleaned with successive rinses of pesticide-grade methanol and distilled water.

    - Dedicated line is disposed of or left at well site.

14. Equipment/wash blanks are collected when non-dedicated sampling equipment is used.

15. Chain-of-custody forms are completed in triplicate.

    - The original and one carbon copy are put into a zip-lock bag and placed into the cooler. The original will be returned following sample analysis.

    - A second carbon copy is kept on file.

16. Cooler is sealed with strapping tape and chain-of-custody seals to assure integrity and to prevent tampering of sample.

Table 4-4

Sampling Procedure for Soil Vapor Wells

1. Create a bentonite berm around the well sufficient in diameter and thickness to properly seal the tracer gas pressurization dome.

2. Cover the bentonite berm and well area with poly sheeting.

3. Cut a 4-inch x 4-inch hole through the poly sheeting within the area of the bentonite berm.

4. Feed the well tubing through the hole in the poly sheeting and connect it to the purging port in the pressurization dome and tape connections to ensure air tight seals.

5. Seat the pressurization dome into the bentonite berm.

6. Pressurize the dome with the tracer gas.

7. Evacuate static vapor (approximately 3 sample zone volumes) from the well tube and the sampling zone at a rate not to exceed 0.2 liters per minute.

8. Connect well tubing to tracer gas tester to analyze for break through of the tracer gas.

9. Remove and disconnect the tracer gas pressurization dome.

10. Connect the sample collection devise (i.e., summa canister regulator) and sample canister to the well tubing.

11. Collect sample.

12. Connect well tubing to tracer gas tester to analyze for break through of the tracer gas.

13. Complete sample log including:

    - sample identification
    - date and time of sample collection
    - purge volume
    - vacuum start and stop times
    - chain of custody

Table 7-1

Proposed Method Detection Limits and Analytical Methods
ASP Inorganics, ASP Volatiles, ASP Semi-Volatiles, ASP Pesticides, and PCBs

Superfund Target Compound List (TCL) and Contract-Required Quantization Limit

Section 1 – ASP Inorganics
Method: NYSDEC-ASP, June 2000

Parameter		Contract-Required Detection Level* (µG/L)
1.	Aluminum	200
2.	Antimony	60
3.	Arsenic	10
4.	Barium	200
5.	Beryllium	5
6.	Cadmium	5
7.	Calcium	5000
8.	Chromium	10
9.	Cobalt	50
10.	Copper	25
11.	Iron	100
12.	Lead	3
13.	Magnesium	5000
14.	Manganese	15
15.	Mercury	0.2
16.	Nickel	40
17.	Potassium	5000
18.	Selenium	5
19.	Silver	10
20.	Sodium	5000
21.	Thallium	10
22.	Vanadium	50
23.	Zinc	20
24.	Cyanide	10

* Matrix: groundwater. For soil matrix, multiply CRDL by 100.

Table 7-1 (cont.)

Section 1 – ASP Inorganics
Method: NYSDEC-ASP, June 2000

Volatile		Proposed Method Detection Limits (µg/l)*
1.	Chloromethane	1
2.	Bromomethane	1
3.	Vinyl chloride	1
4.	Chloroethane	1
5.	Methylene chloride	1
6.	Acetone	1
7.	Carbon disulfide	1
8.	1,1-Dichloroethylene	1
9.	1,1-Dichloroethane	1
10.	1,2-Dichloroethylene (total)	1
11.	Chloroform	1
12.	1,2-Dichloroethane	1
13.	2-Butanone	1
14.	1,1,1-Trichloroethane	1
15.	Carbon tetrachloride	1
16.	Bromodichloromethane	1
17.	1,1,2,2-Tetrachloroethane	1
18.	1,2-Dichloropropane	1
19.	cis-1,3-Dichloropropene	1
20.	Trichloroethene	1
21.	Dibromochloromethane	1
22.	1,1,2-Trichloroethane	1
23.	Benzene	1
24.	Trans-1,3-Dichloropropene	1
25.	Bromoform	1
26.	2-Hexanone	1
27.	4-Methyl-2-pentanone	1
28.	Tetrachloroethylene	1
29.	Toluene	1
30.	Chlorobenzene	1
31.	Ethylbenzene	1
32.	Styrene	1
33.	Total xylenes	1

* Quantitation limit for medium-level soil is 1,200 µg/kg (wet weight basis). For soil vapor VOCs (TO-15), limits are 1 ug/m3, except TCE, which is 0.25 ug/m3.

Table 7-1 (cont.)

Section 1 – ASP Inorganics
Method: NYSDEC-ASP, June 2000

Semi-Volatiles		Contract-Required Quantitation Limit (µg/l)
1.	Phenol	10
2.	Bis(2-chloroethyl) ether	10
3.	2-Chlorophenol	10
4.	1,3-Dichlorobenzene	10
5.	1,4-Dichlorobenzene	10
6.	1,2-Dichlorobenzene	10
7.	2-Methylphenol	10
8.	2,2' oxybis(1-Chloropropane)	10
9.	4-Methylphenol	10
10.	N-Nitroso-dipropylamine	10
11.	Hexachloroethane	10
12.	Nitrobenzene	10
13.	Isophorone	10
14.	2-Nitrophenol	10
15.	2,4-Dimethylphenol	10
16.	bis(2-Chloroethoxy) methane	10
17.	2,4-Dichlorophenol	10
18.	1,2,4-Trichlorobenzene	10
19.	Naphthalene	10
20.	4-Chloroaniline	10
21.	Hexachlorobutadiene	10
22.	4-Chloro-3-methylphenol	10
23.	2-Methylnaphthalene	10
24.	Hexachlorocyclopentadiene	10
25.	2,4,6-Trichlorophenol	10
26.	2,4,5-Trichlorophenol	25
27.	2-Chloronaphthalene	10
28.	2-Nitroaniline	25
29.	Dimethyl phthalate	10
30.	Acenaphthylene	10
31.	2,6-Dinitrotoluene	10
32.	3-Nitroaniline	25
33.	Acenaphthene	10
34.	2,4-Dinitrophenol	25
35.	4-Nitrophenol	25
36.	Dibenzofuran	10
37.	Dinitrotoluene	10
38.	Diethylphthalate	10
39.	4-Chlorophenyl phenyl ether	10

Table 7-1 (cont.)

Section 1 – ASP Inorganics
Method: NYSDEC-ASP, June 2000

Semi-Volatiles	Contract-Required Quantitation Limit (µg/l)
40. Fluorene	10
41. 4-Nitroanile	25
42. 4,6-Dinitro-2-methylphenol	25
43. N-nitrosodiphenylamine	10
44. 4-Bromophenyl phenyl ether	10
45. Hexachlorobenzene	10
46. Pentachlorophenol	25
47. Phenanthrene	10
48. Anthracene	10
49. Carbazole	10
50. Di-n-butyl phthalate	10
51. Fluoranthene	10
52. Pyrene	10
53. Butyl benzyl phthalate	10
54. 3,3'-Dichlorobenzidine	10
55. Benz(a) anthracene	10
56. Chrysene	10
57. bis(2-ethylhexyl)phthalate	10
58. Di-n-octyl phthalate	10
59. Benzo(b)fluoranthene	10
60. Benzo(k)fluoranthene	10
61. Benzo(a)pyrene	10
62. Indeno(1,2,3-cd)pyrene	10
63. Dibenz(a,h)anthracene	10
64. Benzo(g,h,i)perylene	10

Table 7-1 (cont.)

Section 1 – ASP Inorganics
Method: NYSDEC-ASP, June 2000

Pesticides/PCBs		Contract-Required Quantitation Limit (µg/l)
1.	alpha-BHC	0.05
2.	beta-BHC	0.05
3.	delta-BHC	0.05
4.	gamma-BHC (lindane)	0.05
5.	Heptachlor	0.05
6.	Aldrin	0.05
7.	Heptachlor epoxide	0.05
8.	Endosulfan I	0.05
9.	Dieldrin	0.10
10.	4,4'-DDE	0.10
11.	Endrin	0.10
12.	Endosulfan II	0.10
13.	4,4'-DDD	0.10
14.	Endosulfan sulfate	0.10
15.	4,4'-DDT	0.10
16.	Methoxychlor	0.5
17.	Endrin ketone	0.10
18.	Endrin aldehyde	0.10
19.	alpha-Chlordane	0.05
20.	gamma-Chlordane	0.05
21.	Toxaphene	5.0
22.	AROCLOR-1016	1.0
23.	AROCLOR-1221	1.0
24.	AROCLOR-1232	1.0
25.	AROCLOR-1242	1.0
26.	AROCLOR-1248	1.0
27.	AROCLOR-1254	1.0
28.	AROCLOR-1260	1.0

Appendix D

NYSDEC Approvals of Substantive Technical Requirements and Other Remediation–Related Permits

RECORD OF DECISION

Utica St. / Hamilton
Environmental Restoration Project
Hamilton, Madison County
Site No. E727011
March 2014

Prepared by
Division of Environmental Remediation
New York State Department of Environmental Conservation

DECLARATION STATEMENT - RECORD OF DECISION

Utica St. / Hamilton
Environmental Restoration Project
Hamilton, Madison County
Site No. E727011
March 2014

Statement of Purpose and Basis

This document presents the remedy for the Utica St. /Hamilton site, an environmental restoration site. The remedial program was chosen in accordance with the New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375.

This decision is based on the Administrative Record of the New York State Department of Environmental Conservation (the Department) for the Utica St. /Hamilton site and the public's input to the proposed remedy presented by the Department. A listing of the documents included as a part of the Administrative Record is included in Appendix B of the ROD.

Description of Selected Remedy

During the course of the investigation certain actions, known as interim remedial measures (IRMs), were undertaken at the above referenced site. An IRM is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before completion of the remedial investigation (RI) or alternatives analysis (AA). The IRM(s) undertaken at this site are discussed in Section 6.2.

Based on the implementation of the IRM(s), the findings of the investigation of this site indicate that the site no longer poses a threat to human health or the environment; therefore No Further Action is the selected remedy. The remedy may include continued operation of a remedial system if one was installed during the IRM and the implementation of any prescribed institutional controls/engineering controls (ICs/ECs) that have been identified as being part of the remedy for the site.

The IRM(s) conducted at the site attained the remediation objectives identified for this site in Section 6.5 for the protection of public health and the environment.

New York State Department of Health Acceptance

The New York State Department of Health (NYSDOH) concurs that the remedy for this site is protective of human health.

Declaration

The selected remedy is protective of human health and the environment, complies with State and Federal requirements that are legally applicable or relevant and appropriate to the remedial action to the extent practicable, and is cost effective. This remedy utilizes permanent solutions and alternative treatment or resource recovery technologies, to the maximum extent practicable, and satisfies the preference for remedies that reduce toxicity, mobility, or volume as a principal element.

March 18, 2014

Date

Robert W. Schick, P.E., Director
Division of Environmental Remediation

RECORD OF DECISION

Utica St. /Hamilton
Hamilton, Madison County
Site No. E727011
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SECTION 1: SUMMARY AND PURPOSE

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has selected a remedy for the above referenced site. The disposal of contaminants at the site resulted in threats to public health and the environment that were addressed by actions known as interim remedial measures (IRMs), which were undertaken at the site. An IRM is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before completion of the remedial investigation (RI) or feasibility study (FS). The IRMs undertaken at this site are discussed in Section 6.2. Contaminants include hazardous wastes and/or petroleum.

Based on the implementation of the IRM(s), the findings of the investigation of this site indicate that the site no longer poses a threat to human health or the environment. The IRM(s) conducted at the site attained the remediation objectives identified for this site, which are presented in Section 6.5, for the protection of public health and the environment. No Further Action is the remedy selected by this Record of Decision (ROD). A No Further Action remedy may include continued operation of any remedial system installed during the IRM and the implementation of any prescribed controls that have been identified as being part of the remedy for the site. This ROD identifies the IRM(s) conducted and discusses the basis for No Further Action.

The 1996 Clean Water/ Clean Air Bond Act provide funding to municipalities for the investigation and cleanup of brownfields. Brownfields are abandoned, idled, or under-used properties where redevelopment is complicated by real or perceived environmental contamination. They typically are former industrial or commercial properties where operations may have resulted in environmental contamination. Brownfields often pose not only environmental, but legal and financial burdens on communities. Under the Environmental Restoration Program, the state provides grants to municipalities to reimburse up to 90 percent of eligible costs for site investigation and remediation activities. Once remediated, the property can then be reused.

The Department has issued this document in accordance with the requirements of New York State Environmental Conservation Law and 6 NYCRR Part 375. This document is a summary of the information that can be found in the site-related reports and documents.

SECTION 2: CITIZEN PARTICIPATION

The Department seeks input from the community on all remedies. A public comment period was held, during which the public was encouraged to submit comment on the proposed remedy. All comments on the remedy received during the comment period were considered by the Department in selecting a remedy for the site. Site-related reports and documents were made available for review by the public at the following document repository:

A public meeting was also conducted. At the meeting, the findings of the remedial investigation (RI) and the alternatives analyses (AA) were presented along with a summary of the proposed remedy. After the presentation, a question-and-answer period was held, during which verbal or written comments were accepted on the proposed remedy.

Comments on the remedy received during the comment period are summarized and addressed in the responsiveness summary section of the ROD.

Receive Site Citizen Participation Information By Email

Please note that the Department's Division of Environmental Remediation (DER) is "going paperless" relative to citizen participation information. The ultimate goal is to distribute citizen participation information about contaminated sites electronically by way of county email listservs. Information will be distributed for all sites that are being investigated and cleaned up in a particular county under the State Superfund Program, Environmental Restoration Program, Brownfield Cleanup Program, Voluntary Cleanup Program, and Resource Conservation and Recovery Act Program. We encourage the public to sign up for one or more county listservs at http://www.dec.ny.gov/chemical/61092.html

SECTION 3: SITE DESCRIPTION AND HISTORY

Location: The site is located at 47 Utica Street (RT 12B) in the Village of Hamilton, Madison County, New York.

Site Features: The site is approximately 0.25 acres in size. Currently, the site is vacant with broken pavement and gravel, with a one story structure (2-bay garage) which was a former automobile repair-gasoline station. The site is bordered by an automobile sales lot to the south, a liquor store to the north, small retail stores to the east, and residential homes to the west.

Current Zoning and Land Use: The site itself is zoned commercial and currently inactive. Areas surrounding the subject site are a mix of light commercial/retail properties as well as residential homes.

Past Use of the Site: The site was used as an automobile service station and at one time provided gasoline sales as well. Prior uses that appear to have led to contamination include petroleum contaminants originating from leaking underground fuel storage tanks and petroleum material storage.

Site Geology and Hydro-Geology: The top 18 inches are several layers of asphalt pavement and gravel. Underlying this layer is urban fill material, such as bricks, coal-ash, stone, sand, rubble, lumber, and broken up pavement to a depth of 3 to 5 feet; and brownish sand with silty-clays from 6 to 13 feet. Groundwater appears at approximately 9 feet below grade with a flow direction to the south-southwest.

A site location map is attached as Figure 1.

SECTION 4: LAND USE AND PHYSICAL SETTING

The Department may consider the current, intended, and reasonably anticipated future land use of the site and its surroundings when evaluating a remedy for soil remediation. For this site, alternatives (or an alternative) that restrict(s) the use of the site to commercial use (which allows for industrial use) as described in Part 375-1.8(g) were/was evaluated in addition to an alternative which would allow for unrestricted use of the site.

A comparison of the results of the investigation to the appropriate standards, criteria and guidance values (SCGs) for the identified land use and the unrestricted use SCGs for the site contaminants is included in the Tables for the media being evaluated in Exhibit A.

SECTION 5: ENFORCEMENT STATUS

Potentially Responsible Parties (PRPs) are those who may be legally liable for contamination at a site. This may include past or present owners and operators, waste generators, and haulers.

No PRPs have been documented to date.

Since no viable PRPs have been identified, there are currently no ongoing enforcement actions. However, legal action may be initiated at a future date by the state to recover state response costs should PRPs be identified. Madison County will assist the state in its efforts by providing all information to the state which identifies PRPs. Madison County will also not enter into any agreement regarding response costs without the approval of the Department.

SECTION 6: SITE CONTAMINATION

6.1: Summary of the Remedial Investigation

A Remedial Investigation (RI) has been conducted. The purpose of the RI was to define the nature and extent of any contamination resulting from previous activities at the site. The field activities and findings of the investigation are described in the RI Report.

The following general activities are conducted during an RI:

- Research of historical information,
- Geophysical survey to determine the lateral extent of wastes,
- Test pits, soil borings, and monitoring well installations,

- Sampling of waste, surface and subsurface soils, groundwater, and soil vapor,
- Sampling of surface water and sediment,
- Ecological and Human Health Exposure Assessments.

The analytical data collected on this site includes data for:

- groundwater
- soil
- soil vapor
- sub-slab vapor

6.1.1: Standards, Criteria, and Guidance (SCGs)

The remedy must conform to promulgated standards and criteria that are directly applicable or that are relevant and appropriate. The selection of a remedy must also take into consideration guidance, as appropriate. Standards, Criteria and Guidance are hereafter called SCGs.

To determine whether the contaminants identified in various media are present at levels of concern, the data from the RI were compared to media-specific SCGs. The Department has developed SCGs for groundwater, surface water, sediments, and soil. The NYSDOH has developed SCGs for drinking water and soil vapor intrusion. The tables found in Exhibit A list the applicable SCG in the footnotes. For a full listing of all SCGs see: http://www.dec.ny.gov/regulations/61794.html

6.1.2: RI Results

The data have identified contaminants of concern. A "contaminant of concern" is a contaminant that is sufficiently present in frequency and concentration in the environment to require evaluation for remedial action. Not all contaminants identified on the property are contaminants of concern. The nature and extent of contamination and environmental media requiring action are summarized in Exhibit A. Additionally, the RI Report contains a full discussion of the data. The contaminant(s) of concern identified at this site is/are:

BENZO (A) PYRENE	CHRYSENE
XYLENE (MIXED)	BENZO (B) FLUORANTHENE
INDENO (1, 2, 3-CD)PYRENE	BENZO [K] FLUORANTHENE
ETHYLBENZENE	BENZ (A) ANTHRACENE
DIBENZ[A,H]ANTHRACENE	N-PROPYLBENZENE
LEAD	MERCURY
1,2,4-TRIMETHYLBENZENE	ZINC

Based on the investigation results, comparison to the SCGs, and the potential public health and environmental exposure routes, certain media and areas of the site required remediation. These media were addressed by the IRM(s) described in Section 6.2. More complete information can be found in the RI Report and the IRM Construction Completion Report.

6.2: Interim Remedial Measures

An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before issuance of the Record of Decision.

The following IRM(s) has/have been completed at this site based on conditions observed during the RI.

IRM Soil Excavations

Approximately 60 tons of visibly contaminated soil and debris were excavated and properly disposed off-site; two underground storage tanks (a 550 gallon petroleum and a 275 gallon waste oil tank) were removed; and a 275 gallon fuel oil above ground storage tank; a hydraulic lift and its hydraulic fluid contents, a gasoline pump island; debris from two floor sumps inside the repair garage bays, surface soil from two discrete areas outside the site's building, nine 55 gallon drums of various petroleum waste, and petroleum contaminated debris were also removed.

Post-IRM sampling indicated that some limited volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) remain in site soils at concentrations above unrestricted SCOs but, with the exception of one soil sample, concentrations are below commercial use SCOs, which is the current and anticipated zoning use for the site. The area where the soil sample exceeded the commercial SCOs was covered with a foot of clean soil.

6.3: Summary of Environmental Assessment

This section summarizes the assessment of existing and potential future environmental impacts presented by the site. Environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, groundwater resources, and surface water.

The Fish and Wildlife Resources Impact Analysis (FWRIA) for OU 01, which is included in the RI report, presents a detailed discussion of the existing and potential impacts from the site to fish and wildlife receptors.

Soil, Prior to Remediation:

Laboratory analysis of the surface soils identified the semi-volatile organic compound, benzo (a) pyrene, slightly above the commercial use SCO.

Laboratory analysis of the sub-surface soils identified volatile organic compounds (VOCs), including m, p-xylene, n-propylbenzene and 1, 2, 4 trimethylbenzene, above unrestricted use SCOs. Laboratory analysis of the sub-surface soils identified semi-volatile organic compounds (SVOCs), including Benz(a) anthracene, chrysene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (a) pyrene, indeno (1 2 3-cd) pyrene and dibenzo (a h) anthracene, at concentrations greater than unrestricted use SCOs . Laboratory analysis of subsurface soils identified volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) at concentrations below commercial use SCOs. Impacted surface and subsurface soils are limited to on-site, no off-site soils were affected.

Soil, Post Remediation:

Post-IRM sampling indicated that some limited VOCs and SVOCs remain in site soils at concentrations above unrestricted SCOs but, with the exception of one soil sample, concentrations are below commercial use SCOs. The area where the soil sample exceeded the commercial SCOs was covered with a foot of clean soil.

Groundwater:

The results of the groundwater sampling and analysis indicate that the principal groundwater contaminants are VOCs (i.e., ethylbenzene and xylenes) and one SVOC (naphthalene). Concentrations of ethylbenzene are as high as 89 parts per billion (ppb) compared to the standard of 5 ppb, xylene concentrations are as high as 320 ppb compared to the standard of 5 ppb, naphthalene concentrations are as high as 48 ppb compared to the standard of 10 ppb. The groundwater plume is found in the southern portion of the site with some off-site impact to the south-southwest, which is in close proximity to the former underground tanks. The site presents a low environmental threat due to the contamination that remains in the groundwater. A public water supply provides service to the area.

Soil Vapor and Sub-slab Vapor:

Soil vapor investigations identified non-chlorinated VOCs and chlorinated VOCs. A slightly elevated concentration of tetrachloroethylene (PCE) was located outside of the northeast corner of the building within the northern portion of the property. The investigation shows that the soil vapor concentrations are limited to on-site and therefore off-site migration is not a concern. Further investigation or action is not warranted at this time because the structure is vacant and no complete routes of exposures currently exist.

6.4: Summary of Human Exposure Pathways

This human exposure assessment identifies ways in which people may be exposed to site-related contaminants. Chemicals can enter the body through three major pathways (breathing, touching or swallowing). This is referred to as *exposure*.

Since some contaminated soils remain at the site below the site building, pavement, and clean backfill, people will not come in contact with contaminated soils unless they dig below the surface materials. People are not drinking the contaminated groundwater because the area is served by a public water supply not affected by site contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because the site building is vacant, the inhalation of site-related contaminants due to soil vapor intrusion does not represent a concern for the site in its current condition. However, the potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site development. In addition, sampling indicates soil vapor intrusion is not a concern for off-site properties.

6.5: Summary of the Remediation Objectives

The objectives for the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375. The goal for the remedial program is to restore the site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles.

The remedial action objectives for this site are:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

SECTION 7: SUMMARY OF SELECTED REMEDY

Based on the results of the investigations at the site, the IRM that has been performed, and the evaluation presented here, the Department is selecting No Further Action as the remedy for the site. This No Further Action remedy includes continued operation of the implementation of ICs/ECs which include: green remediation principles and techniques, maintaining a site cover system, restriction of groundwater use, compliance with redevelopment as a commercial use property, and a site management plan for monitoring and future redevelopment. The Department believes that this remedy is protective of human health and the environment and satisfies the remediation objectives described in Section 6.5.

The elements of the IRM already completed and the institutional and engineering controls are listed below:

1. A site cover currently exists and will be maintained to allow for commercial use of the site. Any site redevelopment will maintain a site cover, which may consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where a soil cover is required it will be a minimum of one foot of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

2. Imposition of an institutional control in the form of an environmental easement for the controlled property that:

- requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allows the use and development of the controlled property for commercial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
- requires compliance with the Department approved Site Management Plan.

3. A Site Management Plan is required, which includes the following:

a. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The Environmental Easement discussed in Paragraph 2 above.

Engineering Controls: The soil cover discussed in Paragraph 1 above

This plan includes, but may not be limited to:

- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- a provision for further investigation to refine the nature and extent of contamination in the following areas where access was previously hindered: within the footprint of the building if and when it is demolished
- a provision for removal or treatment of the source area located under the building if and when the building is demolished.
- descriptions of the provisions of the environmental easement including any land use, and groundwater use restrictions;

- a provision for evaluation of the potential for soil vapor intrusion should the use of the on-site building change and for any buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- provisions for the management and inspection of the identified engineering controls;
- maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

b. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- installation, development, and sampling of groundwater monitoring wells
- monitoring of groundwater to assess the performance and effectiveness of the remedy;
- a schedule of monitoring and frequency of submittals to the Department; and
- monitoring for vapor intrusion for any buildings as may be required by the Institutional and Engineering Control Plan discussed above.

4. Green remediation principles and techniques will be implemented to the extent feasible in the site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;

Exhibit A

Nature and Extent of Contamination

This section describes the findings of the Remedial Investigation for all environmental media that were evaluated. As described in Section 6.1, samples were collected from various environmental media to characterize the nature and extent of contamination.

For each medium, a table summarizes the findings of the investigation. The tables present the range of contamination found at the site in the media and compares the data with the applicable SCGs for the site. The contaminants are arranged into volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and in-organics (metals). For comparison purposes, the SCGs are provided for each medium that allows for unrestricted use. For soil, if applicable, the Restricted Use SCGs identified in Section 6.1.1 are also presented.

Waste/Source Areas

As described in the RI report, waste/source materials were identified at the site and are impacting groundwater, soil, and soil vapor.

Wastes are defined in 6 NYCRR Part 375-1.2(aw) and include solid, industrial and/or hazardous wastes. Source areas are defined in 6 NYCRR Part 375(au). Source areas are areas of concern at a site were substantial quantities of contaminants are found which can migrate and release significant levels of contaminants to another environmental medium. Wastes and source areas were identified at the site include a gasoline underground storage tank (UST), a waste oil tank (UST), the former gasoline pump island as well as areas inside the repair shop such as the service bays. Please refer to Figure 2 for reference.

The waste/source areas identified at the site were addressed by the IRM(s) described in Section 6.2.

Groundwater

Groundwater samples were collected from overburden monitoring wells. The samples were collected to assess groundwater conditions on and off-site. The results indicate that contamination in groundwater at the site exceeds the SCGs for volatile organic compounds, semi-volatile organic compounds and metals (in-organics).

Table 1 – Groundwater

Detected Constituents	Concentration Range Detected (ppb)[a]	SCG[b] (ppb)	Frequency Exceeding SCG[1]
VOCs			
ethyl benzene	3.1 to 89	5	16/32
xylene	8.9 to 320	5	13/32
SVOCs			
naphthalene	2.8 to 48	10	5/33
Metals (in-organics)			
arsenic	14.3 to 197	25	7/33
lead	6.1 to 260	25	9/33
Pesticides/PCBs			
PCBs	ND	-	0/

a - ppb: parts per billion, which is equivalent to micrograms per liter, ug/L, in water.
b- SCG: Standard Criteria or Guidance - Ambient Water Quality Standards and Guidance Values (TOGs 1.1.1), 6 NYCRR Part 703, Surface water and Groundwater Quality Standards, and Part 5 of the New York State Sanitary Code (10 NYCRR Part 5).
1- based on 32 or 33 groundwater samples obtained, shown as number of samples exceeding (#) out of (/) obtained.

The primary groundwater contaminants are ethyl benzene, xylene and naphthalene which are most likely associated with automobile repair operations as well as the petroleum UST and piping system at the former gas station. The initial groundwater sampling procedures did not include low-flow sampling techniques which likely produced high turbidity samples which are not representative of groundwater conditions and tend to yield artificially elevated metals concentrations. The sample results presented in Table 1 include the seven exceedences for arsenic and nine exceedences for lead from samples collected during the initial sampling event in which elevated turbidity was observed. Subsequent sampling events applied low-flow procedures which resulted in minimal turbidity and significantly lower metal concentrations, most notably for lead and arsenic. For these samples respective concentrations were either non-detect or below respective groundwater protection standards. The results for these samples are also presented in Table 1(above) as samples that were collected with results below the applicable SCGs.

The majority of the remaining inorganic compounds including iron, manganese and sodium, detected in on-site shallow groundwater were also found in up- gradient monitoring wells. Thus, these compounds are considered naturally occurring and/or representative of background conditions (i.e., not considered contaminants of concern). Please refer to Groundwater Exceedances Figure 9 as reference.

Based on the findings of the RI, the presence of petroleum has resulted in the contamination of groundwater. The site contaminants that are considered to be the primary contaminants of concern which will drive the remediation of groundwater to be addressed by the remedy selection process are: ethyl benzene, xylene, and naphthalene. Please refer to Groundwater Exceedances- Figure 9.

Soil

Surface and subsurface soil samples were collected at the site during the Remedial Investigation (RI) and Interim Remedial Measures (IRMs). Surface soil samples were collected from a depth of 0-2 inches to assess direct human exposure. Subsurface soil samples were collected from a depth of two (2) to approximately twenty (20) feet to assess soil contamination impacts to groundwater. The results indicate that soils at the site exceed the unrestricted SCG for VOCs, SVOCs and metals. Following the IRM conducted in 2008, benzo(a)pyrene was the only contaminant in soil that exceeded the commercial use SCO at a concentration of 2.3 parts per million (ppm) vs. the SCO of 1 ppm. Please refer to Figures 6 and 7 for reference.

Table 2 - Soil

Detected Constituents	Concentration Range Detected (ppm)[a]	Unrestricted SCG[b] (ppm)	Frequency Exceeding Unrestricted SCG[1]	Restricted Use SCG[c] (ppm)	Frequency Exceeding Restricted SCG[1]
VOCs					
m, p-xylene[i]	ND to 3.4	0.26	1/6	500	0/6
n-Propylbenzene[i]	ND to 5.0	3.9	1/6	500	0/6
1,2,4 Trimethylbenzene[i]	ND to 10	3.6	1/10	190	0/6
SVOCs					
Benzo (a) anthracene[i]	0.14 to 1.7	1	2/6	5.6	0/6
Benzo (a) anthracene[r]	2.5	1	1/1	5.6	0/1
Chrysene[i]	0.12 to 1.8	1	2/6	56	0/6
Chrysene[r]	2.5	1	1/1	56	0/1
Benzo (b) fluoranthene[i]	ND to 1.8	1	2/6	5.6	0/6
Benzo (b) fluoranthene[r]	2.6	1	1/1	5.6	0/1
Benzo (k) fluoranthene[i]	ND to 0.67	0.8	0/6	56	0/6
Benzo (k) fluoranthene[r]	1.1	0.8	1/1	56	0/1
Benzo (a) pyrene[i]	ND to 1.5	1	2/6	1	2/6
Benzo (a) pyrene[r]	2.3	1	1/1	1	1/1
Indeno (123-cd) pyrene[i]	ND to 1.3	0.5	2/6	5.6	0/6
Indeno (123-cd) pyrene[r]	1.5	0.5	1/1	5.6	0/1
Dibenzo(a h) anthracene[i]	ND to 0.39	0.33	1/6	0.56	0/6
Dibenzo(a h) anthracene[r]	0.4	0.33	1/1	0.56	0/1
Metals (in-organics)					
Lead[s]	247 to 334	63	3/3	1000	0/3
Lead[sb]	87.9	63	1/1	1000	0/1
Mecury[s]	0.13 to 0.28	0.18	2/3	2.8	0/3
Mecury[sb]	0.3	0.18	1/1	2.8	0/3
Zinc[s]	155 to 756	109	3/3	10000	0/3

Detected Constituents	Concentration Range Detected (ppm)[a]	Unrestricted SCG[b] (ppm)	Frequency Exceeding Unrestricted SCG[1]	Restricted Use SCG[c] (ppm)	Frequency Exceeding Restricted SCG[1]
Zinc[sb]	137	109	1/1	10000	0/1

a - ppm: parts per million, which is equivalent to milligrams per kilogram, mg/kg, in soil;
b - SCG: Part 375-6.8(a), Unrestricted Soil Cleanup Objectives.
c - SCG: Part 375-6.8(b), Restricted Use Soil Cleanup Objectives for the Protection of Public Health for Commercial Use, unless otherwise noted.
s- Surface sample, defined as taken from top surface (0) to 2 inches depth, RI 2006
sb - soil/debris sample from service bay inside repair shop structure-endpoint sampling during IRM efforts 2007
i- UST soil confirmation samples obtained during IRM efforts 2006
r- Soil confirmation samples obtained during supplemental IRM efforts 2008
ND - none detected
1- Shown as number of samples exceeding (#), out of (/) obtained.

Soil contamination identified during the RI was addressed during the IRM described in Section 6.2.

Based on the findings of the Remedial Investigation, soil contamination is limited to on-site. The site contaminant identified in soil which is considered to be the primary contaminant of concern, to be addressed by the remedy selection process is benzo (a) pyrene.

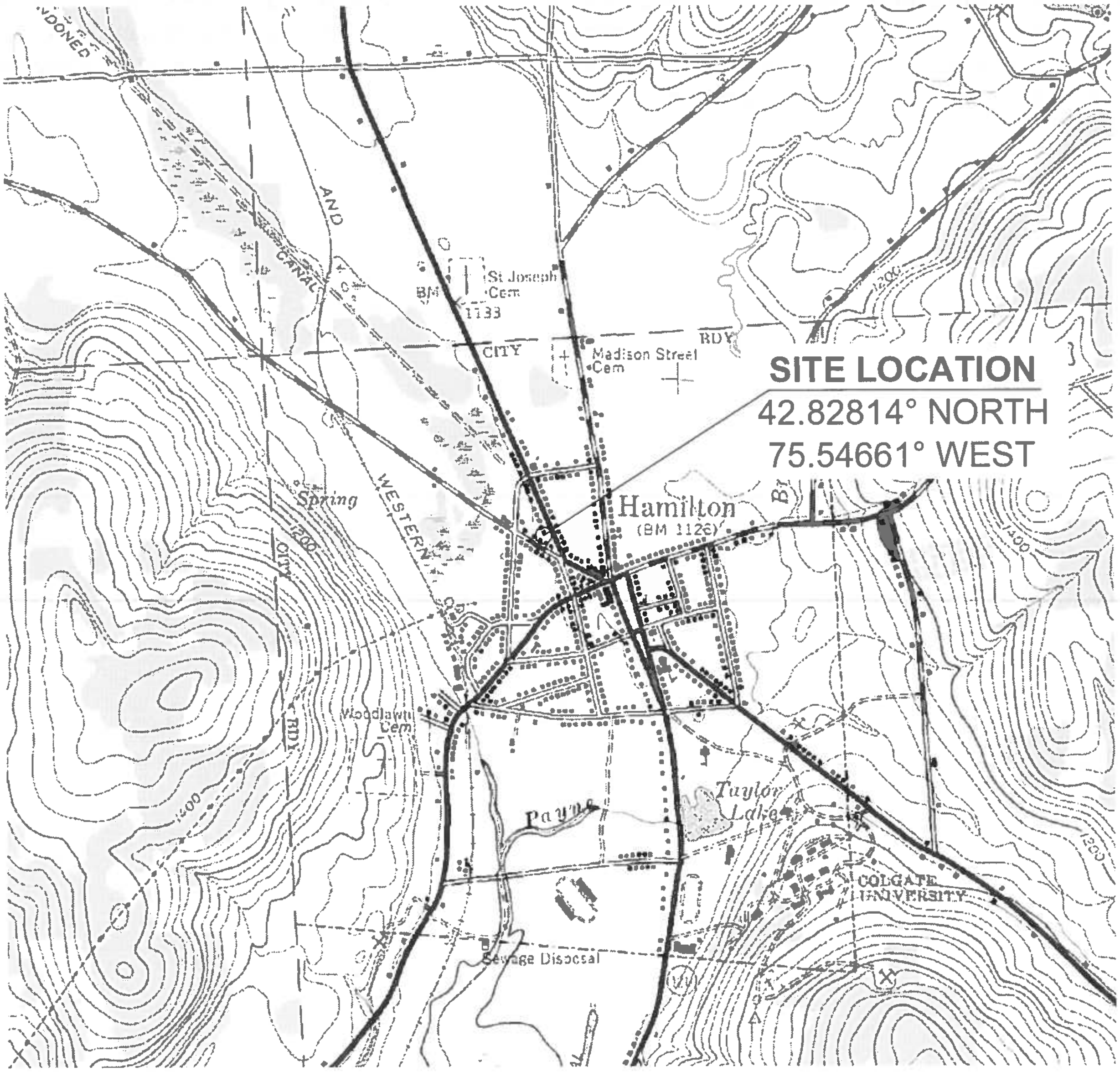
Soil Vapor

The evaluation of the potential for soil vapor intrusion resulting from the presence of site related soil or groundwater contamination was evaluated by the sampling of soil vapor and sub-slab soil vapor under the structure.

Soil vapor samples were collected from areas surrounding the building and the sub-slab of the structure at the 47 Utica Street property. The samples were collected to assess the potential for soil vapor intrusion. Tetrachloroethene (PCE), m & p xylene and toluene were detected in the on-site sub-slab vapor as well as in the soil vapor. Indoor air samples, which are typically taken concurrent with sub-slab vapor samples, were not collected because the structure is vacant and not suitable for occupation.

Based on the concentration detected, and in comparison with the NYSDOH Soil Vapor Intrusion Guidance, the potential exists for the occurrence of soil vapor intrusion within the 47 Utica Street Site. The primary soil vapor contaminants are tetrachloroethene (PCE), m & p xylene and toluene which are typically associated with petroleum and the degreasing of metal parts. The primary soil vapor contamination is found under the building and in the soil vapor in the close proximity to the on-site building. Soil vapor points were installed and testing completed along the property perimeter. Figure 2 illustrates (dark triangles with a SVW-"X" label) the locations of the soil vapor points installed around the perimeter of the property. The sample results did not indicate that any vapor phase contaminants of concern are migrating off-site.

Based on the findings of the Remedial Investigation, the presence of chlorinated and non-chlorinated VOCs and degreasing compounds has resulted in the contamination of soil vapor. The site contaminant that is considered to be the primary contaminant of concern which will drive the remediation of soil vapor to be addressed by the remedy selection process is tetrachloroethene (PCE).



CONTOUR INTERVAL: 20 FEET

MAP TAKEN FROM: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE
HAMILTON (1943, PHOTOINSPECTED 1976)
(www.nysgis.state.ny.us/quads/usgsdrg.htm)

QUADRANGLE LOCATION

0 1,000 2,000 3,000 4,000'

SCALE 1"=2,000' AT ORIGINAL SIZE

N

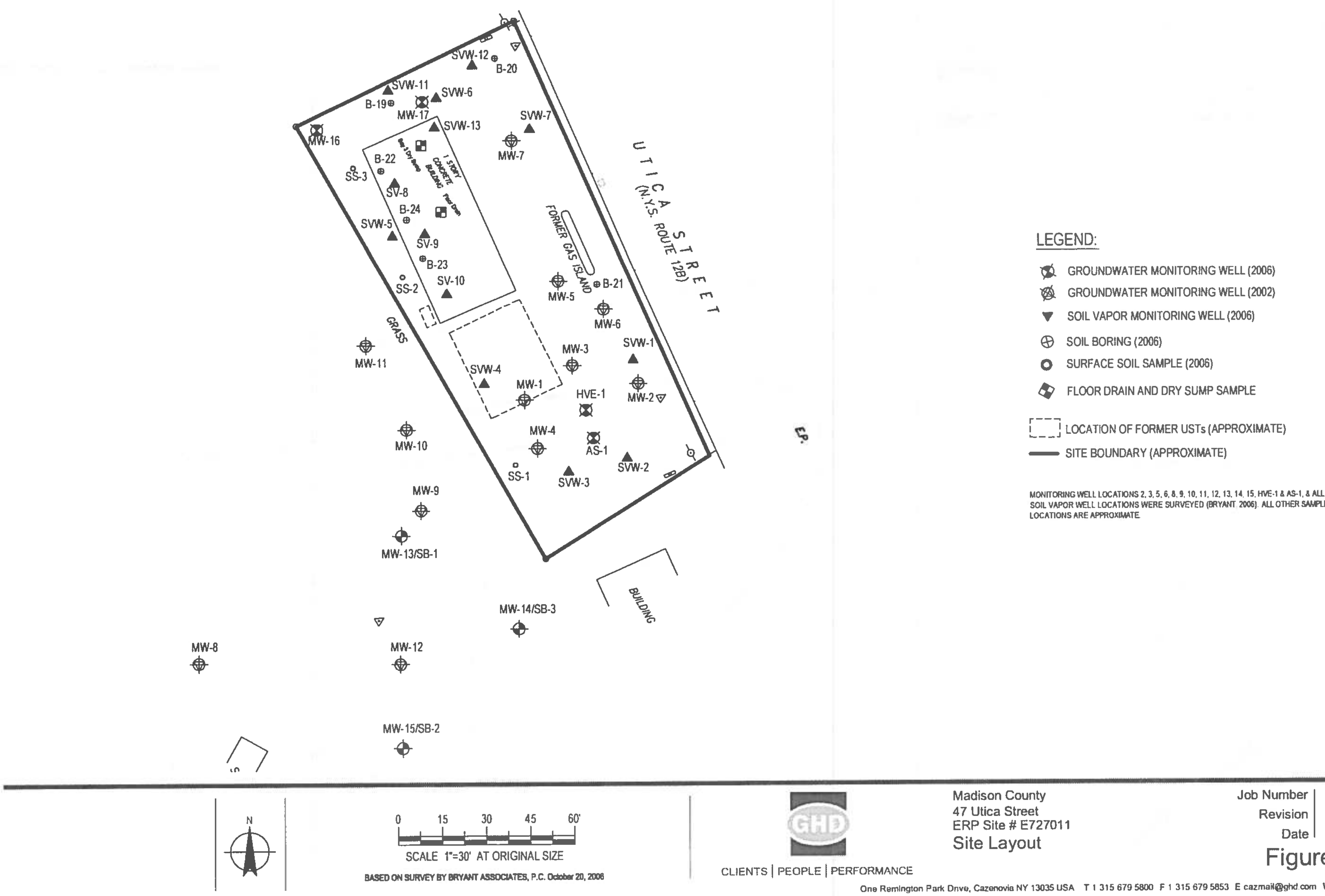
Madison County
47 Utica Street
ERP Site #E727011
Site Location Map

Job Number | 86-12051
Revision | A
Date | 07.30.13

Figure 1

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com

Plot Date 29 August 2013 - 9:12 AM Cad File No N:\US\Syracuse\Projects\86\12051\Environment Folder Files 7-11-2012\Alternatives Analysis\Updated RAA Figures\86-12051-D1.cadd.dwg



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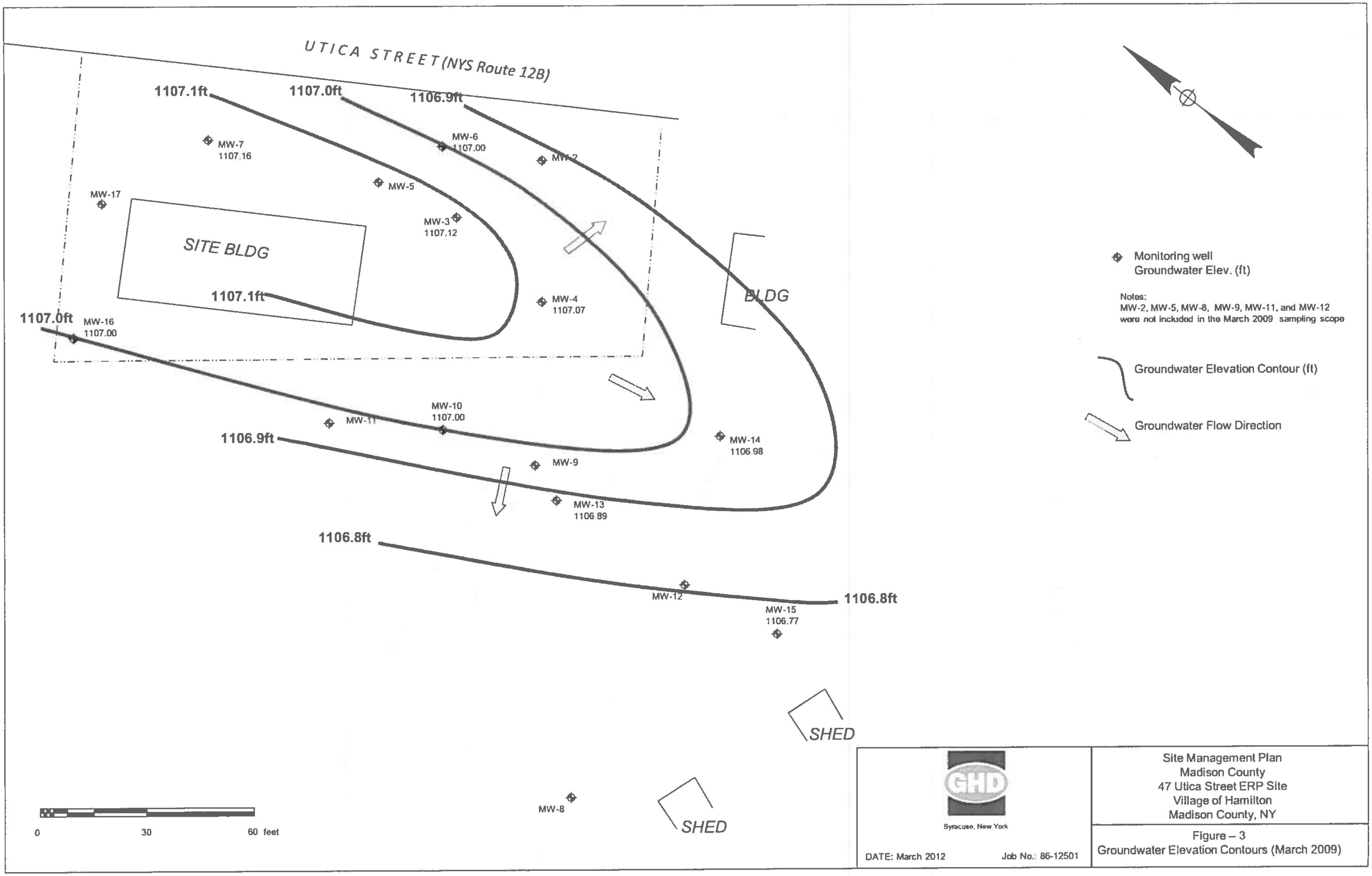
Madison County
47 Utica Street
ERP Site # E727011
Site Layout

Job Number | 86-12051
Revision | A
Date | 07.30.13

Figure 2

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 26 August 2013 - 9:13 AM Cad File No: N:\US\Syracuse\Projects\86\12051\Environment Folder Files 7-11-2012\Alternatives Analysis\Updated RAA Figures\86-12051-D2.cadd.dwg

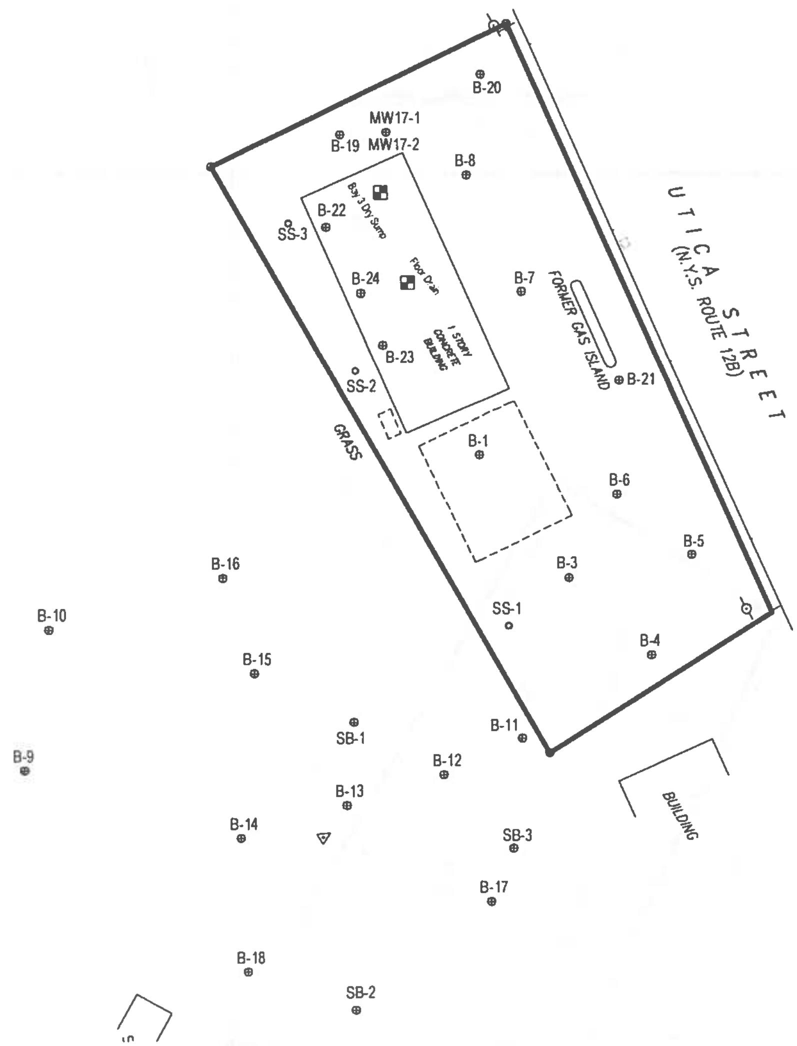


Syracuse, New York

DATE: March 2012 Job No.: 86-12501

Site Management Plan
Madison County
47 Utica Street ERP Site
Village of Hamilton
Madison County, NY

Figure – 3
Groundwater Elevation Contours (March 2009)



LEGEND:

- SOIL BORING SAMPLE (APPROXIMATE)
- SURFACE SOIL SAMPLE (APPROXIMATE)
- LOCATION OF FORMER USTs (APPROXIMATE)
- PROPERTY BOUNDARY (APPROXIMATE)

SOIL SAMPLES B-1 THROUGH B-17 COLLECTED BY NATURE'S WAY IN 2002
SOIL SAMPLES SB-1 THROUGH SB-3, B-19 THROUGH B-24, SS-1 THROUGH SS-3, AND MW17-1 AND MW17-2 COLLECTED BY SWRNA IN 2006, 2007 AND 2008.
EXCAVATION END-POINT SOIL SAMPLES ARE SHOWN ON FIGURE 5

N

0 15 30 45 60'

SCALE 1"=30' AT ORIGINAL SIZE

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

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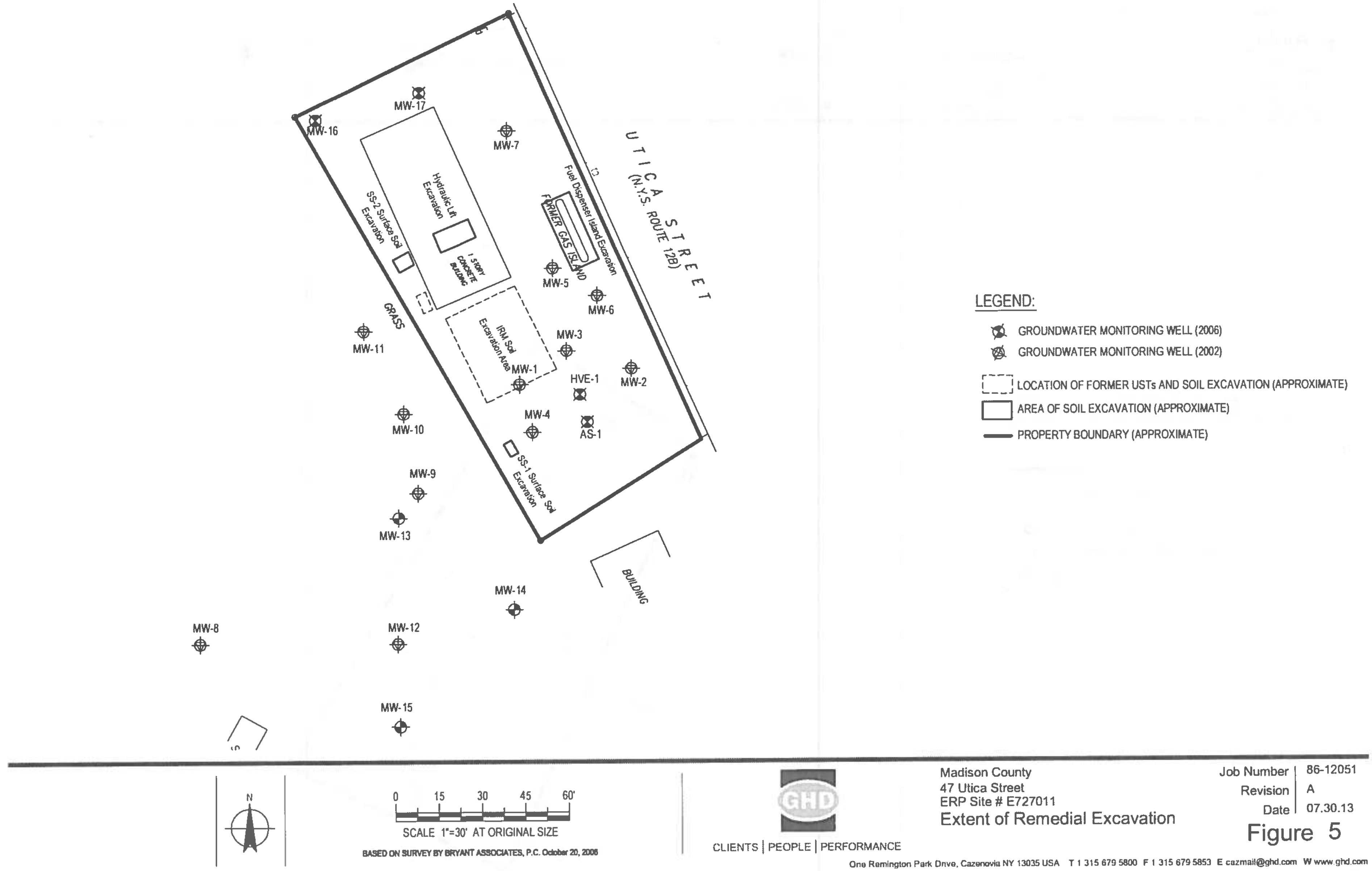
Madison County
47 Utica Street
ERP Site # E727011
Soil Sample Locations

Job Number	86-12051
Revision	A
Date	07.30.13

Figure 4

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date 28 August 2013 - 9:15 AM Cad File No. N:\US\Syracuse\Projects\86\12051\Environment Folder Files 7-11-2012\Alternatives Analysis\Updated RAA\Figures\86-12051-04.cadd.dwg



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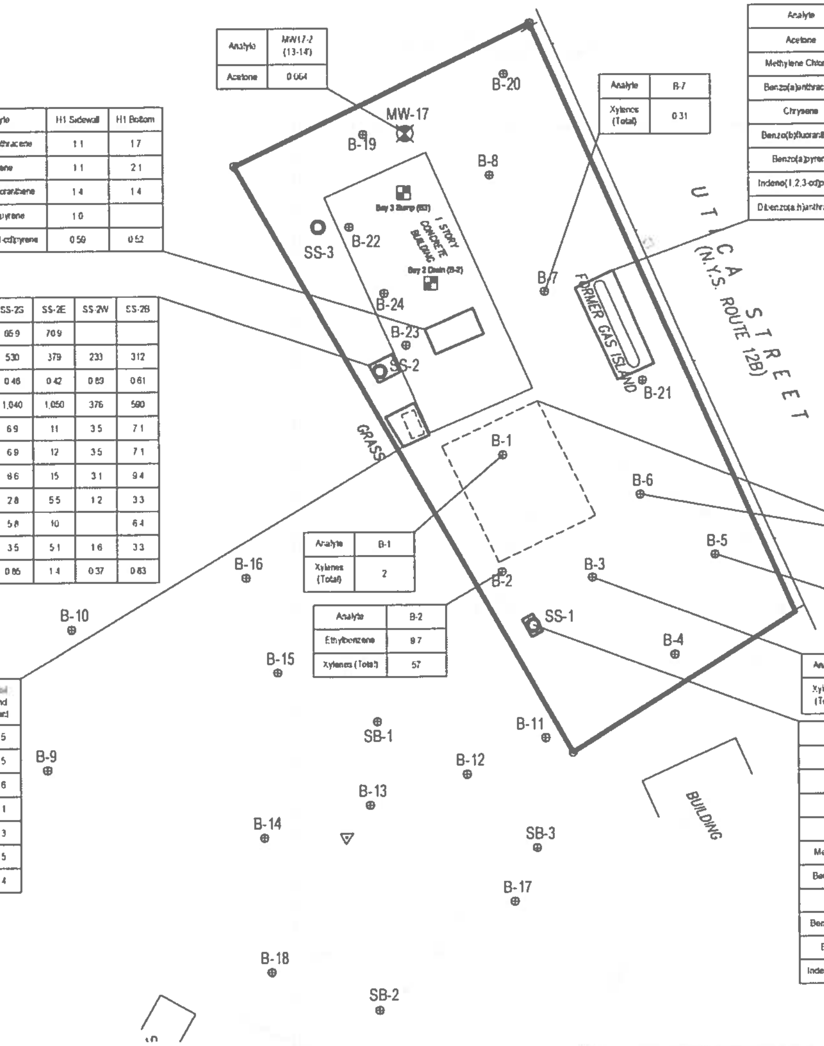
Madison County
47 Utica Street
ERP Site # E727011
Extent of Remedial Excavation

Job Number 86-12051
Revision A
Date 07.30.13

Figure 5

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date 26 August 2013 - 9:15 AM Cad File No. N:\US\Syracuse\Projects\86\12051\Environment Folder Files 7-11-2012\Alternatives Analysis\Updated RAA\Figures\86-12051-D6.cadd.dwg



Analyte	MW17-2 (13-14')
Acetone	0.064

Analyte	H1 Sidewall	H1 Bottom
Benzo(a)anthracene	1.1	1.7
Chrysene	1.1	2.1
Benzo(b)fluoranthene	1.4	1.4
Benzo(a)pyrene	1.0	
Indeno(1,2,3-cd)pyrene	0.59	0.52

Analyte	SS-2N	SS-2S	SS-2E	SS-2W	SS-2B
Copper	56.8	65.9	70.9		
Lead	337	530	379	233	312
Mercury	0.5	0.46	0.42	0.83	0.61
Zinc	686	1,040	1,050	376	590
Benzo(a)anthracene	7.1	6.9	11	3.5	7.1
Chrysene	6.7	6.9	12	3.5	7.1
Benzo(b)fluoranthene	6.8	8.6	15	3.1	9.4
Benzo(k)fluoranthene	2.6	2.8	5.5	1.2	3.3
Benzo(a)pyrene	5.6	5.8	10		6.4
Indeno(1,2,3-cd)pyrene	3.7	3.5	5.1	1.6	3.3
Dibenzo(a,h)anthracene	0.93	0.86	1.4	0.37	0.83

Analyte	Soil End Point
Benzo(a)anthracene	2.5
Chrysene	2.5
Benzo(b)fluoranthene	2.6
Benzo(k)fluoranthene	1.1
Benzo(a)pyrene	2.3
Indeno(1,2,3-cd)pyrene	1.5
Dibenzo(a,h)anthracene	0.4

Analyte	B-1
Xylenes (Total)	2

Analyte	B-2
Ethylbenzene	9.7
Xylenes (Total)	57

Analyte	B-7
Xylenes (Total)	0.31

Analyte	PI-1N	PI-2E	PI-3W	PI-4S
Acetone	0.18	0.2		0.16
Methylene Chloride	0.065		0.050	0.057
Benzo(a)anthracene		1.3		
Chrysene		1.2		
Benzo(b)fluoranthene		1.4		
Benzo(a)pyrene		1.1		
Indeno(1,2,3-cd)pyrene		1.3		
Dibenzo(a,h)anthracene		0.33		

Analyte	WW-1	NW-1	Floor-2
Benzo(a)anthracene	1.7	1.3	
Chrysene	1.8	1.2	
Benzo(b)fluoranthene	1.8	1.2	
Benzo(a)pyrene	1.5	1.1	
Indeno(1,2,3-cd)pyrene	1.3	0.99	
Dibenzo(a,h)anthracene	0.39		
m,p-Xylene			3.4
n-Propylbenzene			5
1,2,4-Trimethylbenzene			10
Lead	315	127	

Analyte	B-6
Xylenes (Total)	1.5

Analyte	B-5
Ethylbenzene	0.24

Analyte	B-3
Xylenes (Total)	1

Analyte	SS-1N	SS-1S	SS-1E	SS-1W	SS-1B
Lead	67.9	171	82.8	267	70.2
Mercury				0.25	
Zinc	109	142	110	279	124
Acetone	0.19				0.18
Methylene Chloride	0.053	0.082	0.068	0.13	0.15
Benzo(a)anthracene				1.1	
Chrysene			1	1.1	
Benzo(b)fluoranthene			1.4	1.7	
Benzo(a)pyrene				1.1	
Indeno(1,2,3-cd)pyrene			0.61	0.68	

LEGEND:

- LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)
- AREA OF IRM SOIL EXCAVATION (APPROXIMATE)
- SURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)
- SUBSURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:
1. TEXT BOXES INDICATE SOIL BORING ANALYTICAL RESULTS THAT EXCEEDED UNRESTRICTED USE SCOs. ASSUMED REMEDIAL ACTION TO ACHIEVE THE RESTORATION TO PRE-DISPOSAL OR UNRESTRICTED CONDITIONS ALTERNATIVE WOULD ENTAIL REMOVAL OF THE BUILDING AND SLAB; EXCAVATION OF SOILS ACROSS THE SITE TO A DEPTH OF FIVE (5) FEET, AND IMPLEMENTATION OF A GROUNDWATER IN-SITU TREATMENT TO ACHIEVE NEW YORK STATE GROUNDWATER STANDARDS.
2. ALL RESULTS ARE REPORTED AS mg/kg (PARTS PER MILLION)
3. ONLY ANALYTES THAT EXCEEDED UNRESTRICTED USE SCOs ARE INCLUDED HERE. FOR A COMPLETE LIST OF ANALYTICAL RESULTS SEE TABLES.
4. BLANK CELLS INDICATE ANALYTE WAS NOT DETECTED ABOVE UNRESTRICTED USE SCOs.
5. END-POINT SOIL SAMPLES WW-1 AND NW-1 TAKEN FROM THE SIDEWALLS OF THE IRM EXCAVATION AREA (SWRNA, 2005).
6. END-POINT SOIL SAMPLE FLOOR-2 TAKEN FROM THE FLOOR OF THE IRM EXCAVATION AREA (SWRNA, 2005).
7. END-POINT SOIL SAMPLES SS-1N, SS-1S, SS-1E, SS-1W TAKEN FROM THE SIDEWALLS OF THE SS-1 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
8. END-POINT SOIL SAMPLE SS-1B TAKEN FROM THE FLOOR OF THE SS-1 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
9. END-POINT SOIL SAMPLES SS-2N, SS-2S, SS-2E, AND SS-2W TAKEN FROM THE SIDEWALLS OF THE SS-2 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
10. END-POINT SOIL SAMPLE SS-2B TAKEN FROM THE FLOOR OF THE SS-2 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
11. END-POINT SOIL SAMPLES PI-1N, PI-2E, PI-3W, AND PI-4S TAKEN FROM THE SIDEWALLS OF THE FUEL DISPENSER ISLAND EXCAVATION AREA (SWRNA, 2007).
12. END-POINT SOIL SAMPLES H1 SIDEWALL AND H2 BOTTOM TAKEN FROM THE SIDEWALL AND FLOOR OF THE HYDRAULIC LIFT EXCAVATION AREA, RESPECTIVELY (SWRNA, 2007).
13. END-POINT SOIL SAMPLE SOIL END POINT TAKEN FROM THE SIDEWALL OF THE SUPPLEMENTAL SOIL EXCAVATION AROUND SS-2 (SWRNA, 2008)

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Madison County
47 Utica Street
ERP Site # E727011

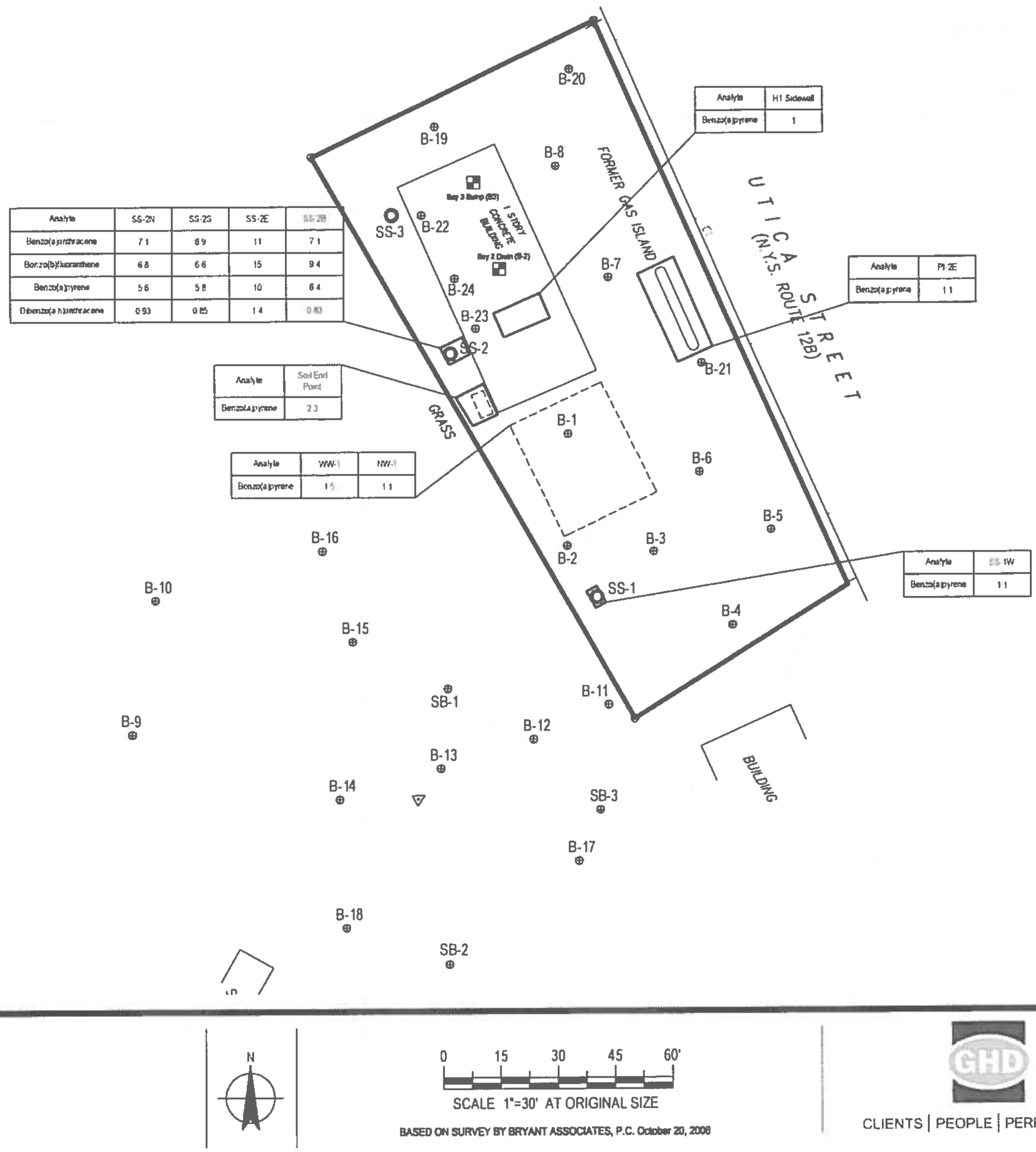
Alternative 3 - Excavation to Unrestricted Soil Cleanup Objectives

Job Number 86-12051
Revision A
Date 07.30.13

Figure 6

One Romington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date: 20 August 2013 - 9:16 AM   Cad File No: N:\US\Syracuse\Projects\86\12051\Environment Folder Files 7-11-2012\Alternatives Analysis\Updated RAA\Figures\86-12051-D6.cadd.dwg



LEGEND:

- LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)
- AREA OF IRM EXCAVATION (APPROXIMATE)
- SURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)
- SUBSURFACE SOIL SAMPLE LOCATIONS (APPROXIMATE)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:

1. ONLY SAMPLES THAT EXCEEDED COMMERCIAL USE SOIL CLEANUP OBJECTIVES FOR AT LEAST ONE ANALYTE ARE SHOWN HERE (SEE TABLES IN REPORT FOR FULL ANALYTICAL RESULTS).
2. REMEDIAL ACTION TO ACHIEVE THE NO FURTHER ACTION WITH SITE MANAGEMENT ALTERNATIVE WOULD INCLUDE:
   - MAINTAINING EXISTING SOIL COVER
   - IMPLEMENT AN ENVIRONMENTAL EASEMENT
   - DEVELOP AND IMPLEMENT A SITE MANAGEMENT PLAN; AND
   - INSTALL, OPERATE, AND MAINTAIN A SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) IF THE EXISTING BUILDING, OR FUTURE BUILDINGS, ARE OCCUPIED IN THE FUTURE.
3. END-POINT SOIL SAMPLES WW-1 AND NW-1 TAKEN FROM THE SIDEWALL OF THE IRM EXCAVATION AREA (SWRNA, 2007)
4. END-POINT SOIL SAMPLE SS-1W TAKEN FROM THE SIDEWALL OF THE SS-1 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
5. END-POINT SOIL SAMPLES SS-2N, SS-2S, SS-2E TAKEN FROM THE SIDEWALLS OF THE SS-W - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007).
6. END-POINT SOIL SAMPLE SS-2B TAKEN FROM THE FLOOR OF THE SS-2 - SURFACE SOIL EXCAVATION AREA (SWRNA, 2007)
7. END-POINT SOIL SAMPLE PI-2E TAKEN FROM THE SIDEWALL OF THE FUEL DISPENSER ISLAND EXCAVATION AREA (SWRNA, 2007).
8. END-POINT SOIL SAMPLE HI SIDEWALL TAKEN FROM THE SIDEWALL OF THE HYDRAULIC LIFT EXCAVATION AREA (SWRNA, 2007).
9. END-POINT SOIL SAMPLE SOIL END POINT TAKEN FROM THE SIDEWALL OF THE SUPPLEMENTAL SOIL EXCAVATION AROUND SS-2 (SWRNA, 2008).

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Madison County
47 Utica Street
ERP Site # E727011

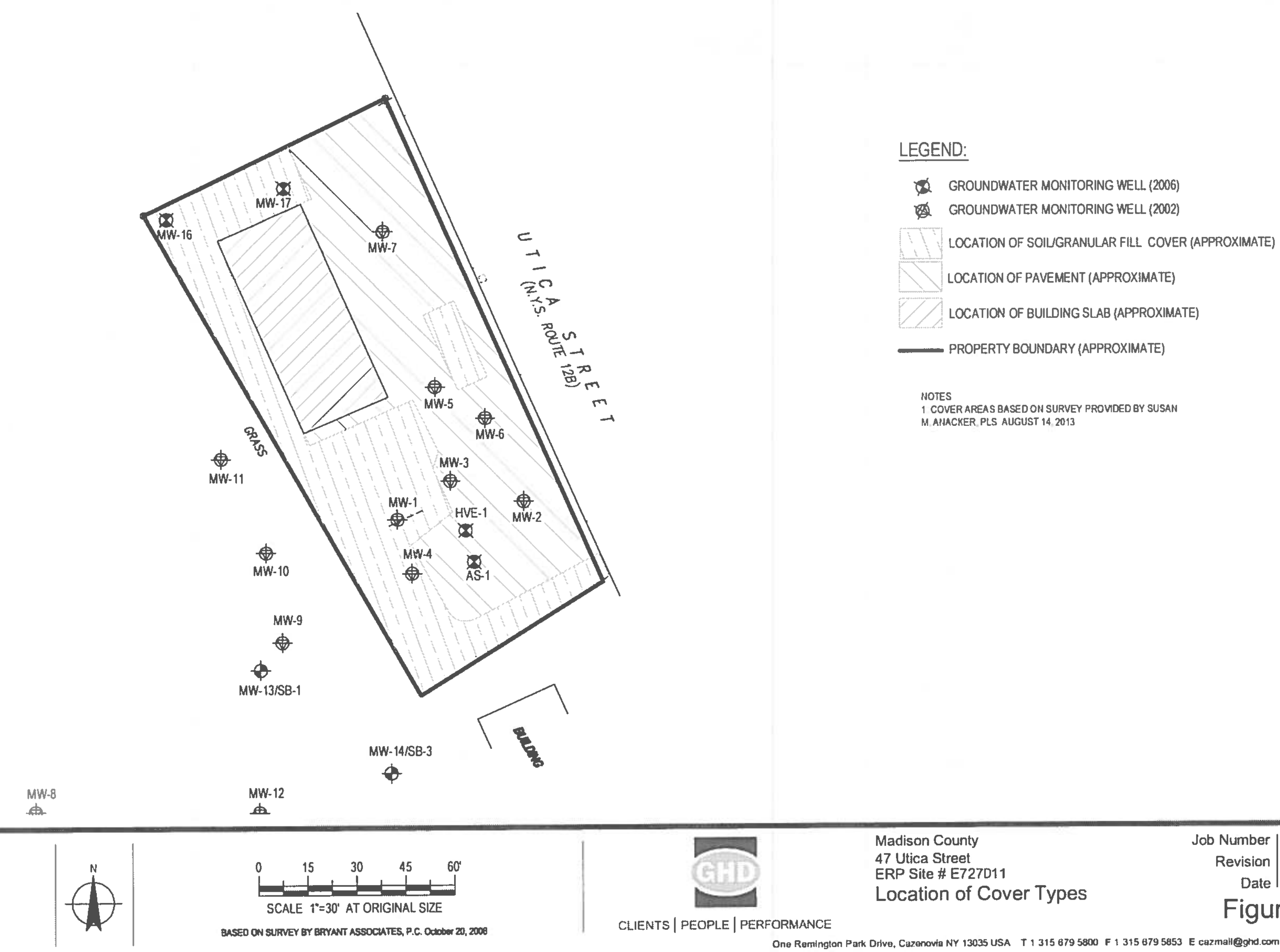
Alternative 2 - No Further Action with Site Management

Job Number	86-12051
Revision	A
Date	07.30.13

Figure 7

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date 26 August 2013 - 9:17 AM Cad File No N:\US\Syracuse\Projects\86\12051\Environment Folder Files 7-11-2012\Alternatives Analysis\Updated RAA\Figures\86-12051-07.cadd.dwg



BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2008

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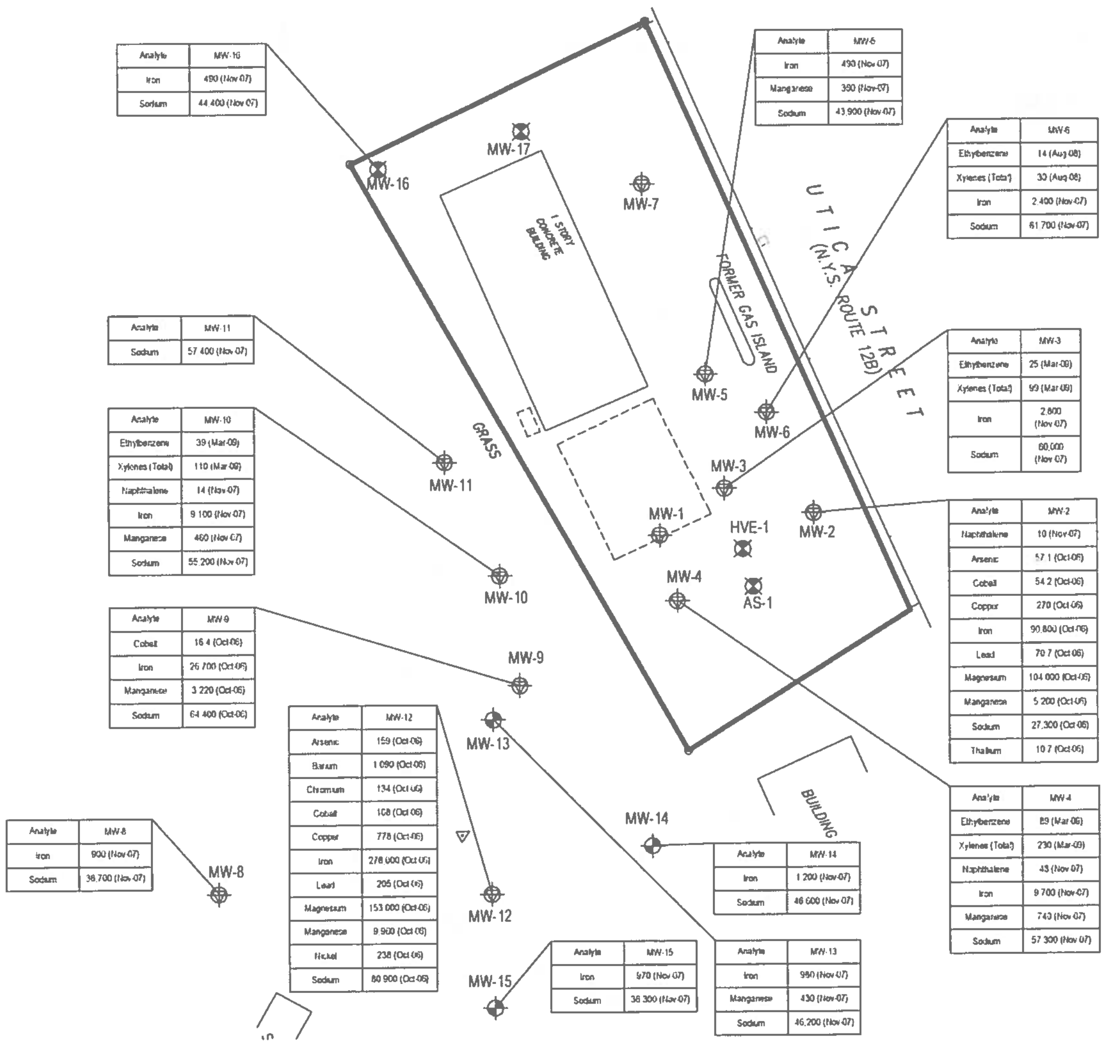
Madison County
47 Utica Street
ERP Site # E727D11
Location of Cover Types

Job Number	86-12051
Revision	A
Date	07.30.13

Figure 8

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date 20 August 2013 - 0 19 AM Cad File No N:\US\Syracuse\Projects\86\12051\Environment Folder Files 7-11-2012\Alternatives Analysis\Updated RAA\Figures\86-12051-D3 cadd dwg



Analyte	MW-16
Iron	490 (Nov 07)
Sodium	44 400 (Nov 07)

Analyte	MW-11
Sodium	57 400 (Nov 07)

Analyte	MW-10
Ethylbenzene	39 (Mar 09)
Xylenes (Total)	110 (Mar 09)
Naphthalene	14 (Nov 07)
Iron	9 100 (Nov 07)
Manganese	460 (Nov 07)
Sodium	55 200 (Nov 07)

Analyte	MW-9
Cobalt	16 4 (Oct 06)
Iron	26 700 (Oct 06)
Manganese	3 220 (Oct 06)
Sodium	64 400 (Oct 06)

Analyte	MW-8
Iron	900 (Nov 07)
Sodium	36,700 (Nov 07)

Analyte	MW-12
Arsenic	159 (Oct 06)
Barium	1 090 (Oct 06)
Chromium	134 (Oct 06)
Cobalt	108 (Oct 06)
Copper	778 (Oct 06)
Iron	278 000 (Oct 06)
Lead	205 (Oct 06)
Magnesium	153 000 (Oct 06)
Manganese	9 900 (Oct 06)
Nickel	238 (Oct 06)
Sodium	80 900 (Oct 06)

Analyte	MW-15
Iron	970 (Nov 07)
Sodium	38 300 (Nov 07)

Analyte	MW-13
Iron	950 (Nov 07)
Manganese	430 (Nov 07)
Sodium	46,200 (Nov 07)

Analyte	MW-14
Iron	1 200 (Nov 07)
Sodium	46 600 (Nov 07)

Analyte	MW-5
Iron	490 (Nov 07)
Manganese	360 (Nov 07)
Sodium	43,900 (Nov 07)

Analyte	MW-6
Ethylbenzene	14 (Aug 08)
Xylenes (Total)	30 (Aug 08)
Iron	2,400 (Nov 07)
Sodium	61 700 (Nov 07)

Analyte	MW-3
Ethylbenzene	25 (Mar 09)
Xylenes (Total)	99 (Mar 09)
Iron	2 800 (Nov 07)
Sodium	60,000 (Nov 07)

Analyte	MW-2
Naphthalene	10 (Nov 07)
Arsenic	57 1 (Oct 06)
Cobalt	54 2 (Oct 06)
Copper	270 (Oct 06)
Iron	90 800 (Oct 06)
Lead	70 7 (Oct 06)
Magnesium	104 000 (Oct 06)
Manganese	5 200 (Oct 06)
Sodium	27,300 (Oct 06)
Thallium	10 7 (Oct 06)

Analyte	MW-4
Ethylbenzene	89 (Mar 06)
Xylenes (Total)	230 (Mar 09)
Naphthalene	43 (Nov 07)
Iron	9 700 (Nov 07)
Manganese	740 (Nov 07)
Sodium	57 300 (Nov 07)

LEGEND:

- LOCATION OF FORMER USTs AND SOIL EXCAVATION (APPROXIMATE)
- GROUNDWATER MONITORING WELL (2006)
- GROUNDWATER MONITORING WELL (2002)
- PROPERTY BOUNDARY (APPROXIMATE)

NOTES:
1 ONLY THE MOST RECENT GROUNDWATER SAMPLE ANALYTICAL RESULTS THAT EXCEEDED NYSDEC TOGS CLASS GA STANDARDS OR GUIDANCE VALUES ARE LISTED HERE (SEE TABLES IN REPORT FOR FULL LIST OF ANALYTES AND RESULTS)
2 ALL GROUNDWATER ANALYTICAL RESULTS REPORTED AS ug/L (PARTS PER BILLION).
3 THE GROUNDWATER SAMPLES EXHIBITED HIGH TURBIDITY AT THE TIME OF SAMPLE COLLECTION, WHICH LIKELY LEADS TO THE ELEVATED METALS CONCENTRATIONS IDENTIFIED

BASED ON SURVEY BY BRYANT ASSOCIATES, P.C. October 20, 2006

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Madison County
47 Utica Street
ERP Site # E727011
Groundwater Exceedances

Job Number 86-12051
Revision A
Date 07.30.13

Figure 9

One Remington Park Drive, Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5853 E cazmail@ghd.com W www.ghd.com

Plot Date 26 August 2013 - 9 20 AM Cad File No N \US\Syracuse\Projects\86\12051\Environment Folder Files 7-11-2012\Alternatives Analysis\Updated RAA\Figures\86-12051-D9 cadd dwg

APPENDIX A

Responsiveness Summary

RESPONSIVENESS SUMMARY

Utica St./Hamilton
Environmental Restoration Project
Village of Hamilton, Madison County, New York
Site No. E727011

The Proposed Remedial Action Plan (PRAP) for the Utica St. / Hamilton site was prepared by the New York State Department of Environmental Conservation (the Department) in consultation with the New York State Department of Health (NYSDOH) and was issued to the document repositories on January 27, 2014. The PRAP outlined the remedial measure proposed for the contaminated soil, groundwater at the Utica St. / Hamilton site.

The release of the PRAP was announced by sending a notice to the public contact list, informing the public of the opportunity to comment on the proposed remedy.

A public meeting was held on February 25, 2014, which included a presentation of the remedial investigation / alternative analysis (RI/AA) for the Utica St. / Hamilton as well as a discussion of the proposed remedy. The meeting provided an opportunity for citizens to discuss their concerns, ask questions and comment on the proposed remedy. These comments have become part of the Administrative Record for this site. The public comment period for the PRAP ended on March 12, 2014.

This responsiveness summary responds to all questions and comments raised during the public comment period. The following are the comments received, with the Department's responses:

COMMENT 1: How sure is the Department about any contamination beneath the sub-slab inside the building?

RESPONSE 1: The Department believes that sub-slab soil conditions were sufficiently characterized. Analyses of soil samples collected from beneath the building slab [three sub-slab soil borings] found no site contaminants in excess of unrestricted use soil cleanup objectives.

APPENDIX B

Administrative Record

Administrative Record

Utica St. / Hamilton
Environmental Restoration Project
Village of Hamilton, Madison County, New York
Site No. E727011

1. Proposed Remedial Action Plan for the Utica St./Hamilton site, dated January 2014, prepared by the Department.

2. The Department and the County of Madison entered into a State Assistance Contract, Contract No. C302761, on November 11, 2005.

3. "Interim Remedial Measures Work Plan", dated August 2005, prepared by Stearns & Wheler, LLC.

4. "Interim Remedial Measures Report", dated May 2006, prepared by Stearns & Wheler, LLC.

5. "Remedial Investigation Work Plan", dated May 2006, prepared by Stearns & Wheler, LLC.

6. "Interim Remedial Measures-2 Work Plan", dated June 2007, prepared by Stearns & Wheler, LLC.

7. "Interim Remedial Measures-2 Report", dated February 2008, prepared by Stearns & Wheler, LLC.

8. "Supplemental Sampling Report", dated March 2009, prepared by S&W Redevelopment, LLC.

9. "Remedial Alternatives Analysis", dated August 26, 2013, prepared by GHD Environmental Consultants.

Appendix E

Environmental Easement and
Proof of Filing

MADISON COUNTY – STATE OF NEW YORK
DENISE A. ROE, COUNTY CLERK
138 NORTH COURT ST, WAMPSVILLE, NY 13163

COUNTY CLERK'S RECORDING PAGE
THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH

INSTRUMENT #: 2015-171

Receipt#: 2015245951
Clerk: BS
Rec Date: 01/12/2015 11:13:34 AM
Doc Grp: D
Descrip: EASEMENT
Num Pgs: 10
Rec'd Frm: HANCOCK & ESTABROOK

Party1: MADISON COUNTY
Party2: DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Town: HAMILTON

Recording:

Cover Page	5.00
Recording Fee	65.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
TP584-2 (Public Utilities	5.00
Sub Total:	95.00
Transfer Tax	
Transfer Tax	0.00
Sub Total:	0.00
Total:	95.00

**** NOTICE: THIS IS NOT A BILL ****

***** Transfer Tax *****
Transfer Tax #: 1153
Transfer Tax
Consideration: 0.00

Total: 0.00

I hereby certify that the within and foregoing was recorded in the Clerk's Office for: Madison County, NY

Denise A. Roe

Denise A. Roe
Madison County Clerk

Record and Return To:

HANCOCK & ESTABROOK
1500 MONEY TOWER I
POB 4976
SYRACUSE NY 13221

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 31st day of December, 2014 between Owner(s) Madison County, having an office at 138 N Court Street, Wampsville, New York 13163, County of Madison, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 47 Utica Street in the Village of Hamilton, Town of Hamilton, County of Madison and State of New York, known and designated on the tax map of the County Clerk of Madison as tax map parcel numbers: Section 153.83 Block 1 Lot 13, being the same as that property conveyed to Grantor by deed dated April 18, 2002 and recorded in the Madison County Clerk's Office in Liber and Page 1220/295. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately .282 +/- acres, and is hereinafter more fully described in the Land Title Survey dated September 13, 2013 prepared by Susan M. Anacker, Professional Land Surveyor, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of State Assistance Contract Number: C302761, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Madison County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved b the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5 the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by

Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: E727011
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Madison County:

By: ______________________

Print Name: John Becker

Title: Chairman Date: 12/22/14

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF MADISON)

On the 22nd day of December in the year 2014, before me, the undersigned, personally appeared John Becker, 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.

Notary Public - State of New York

CHRISTINE J COE
Notary Public - State of New York
NO. 01CO6042761
Qualified in Madison County
My Commission Expires June 5, 2018

County: Madison Site No: E727011 State Assistance Contract : C302761

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: ______________________________
Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 31st day of December, in the year 2014, before me, the undersigned, personally appeared Robert W. Schick, 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/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

____
Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2018

SCHEDULE "A" PROPERTY DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND: situate at 47 & 49 Utica Street, Village of Hamilton, Town of Hamilton, Madison County, New York State, bounded and described as follows;

Beginning at a 5/8" steel rod set with a tag (hereinafter called a survey marker), at the northeast corner of lands of MDJ Enterprises, LLC. As recorded in the Madison County Clerk's Office in Liber 1240 of Deeds at Page 227. Said point is also located, N 16° 42' 59" W, 456.20 feet from Utica Street, Eaton Street centerline intersection.

Thence along the north boundary of said MDJ Enterprises, LLC. As recorded in Liber 1240 of Deeds at Page 227, S 70° 30' 19" W, 66.25 feet to a survey marker.

Thence along the east boundary of lands of Robert A. Maxwell and Christy L. Jones-Maxwell as recorded in Liber 1139 of Deeds at Page 318, and continuing along the east boundary of Louise M. Hess as recorded in Liber 1209 of Deeds at Page 311, N 17° 03' 33" W, 170.10 feet to a survey marker.

Thence along the south boundary of lands of Ronald Cook as recorded in Liber 1194 of Deeds at Page 177 N 77° 06' 25" E, 3.68 feet to a 3/4" iron pipe and N 77° 06' 25" E, 78.56 feet to a survey marker.

Thence along the west side of Utica Street S 11° 27' 19" E, 162.09 feet to the point of beginning.

Containing 0.282 Acres of Land.

Bearings are based on magnetic north 1996 and all distances are level.

Subject to all public highway rights, rights of way and easements of record.

TP-584.2 (10/96)

Recording Office Time Stamp

Real Estate Transfer Tax Return For Public Utility Companies' and Governmental Agencies' Easements and Licenses

This form may only be used by public utility companies regulated by the Public Service Commission and governmental agencies for the recording of easements and licenses where the consideration for the grant of such easement or license is $500.00 or less.

Name of grantee (public utility company or governmental agency)
The Department of Environmental Conservation

Federal employer identification number *(if applicable)*

Address of grantee
625 Broadway Ave., Albany, New York 12233

Name and telephone number of person to contact
Bradford D. Burns (518) 402-9518

	Name(s) of Grantor Of Easement or License	Address of Property	Consideration Given For Easement or License
1.	Madison County	47 Utica Street, Hamilton, NY	$1.00
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

If more than fifteen conveyances are to be recorded, attach a schedule of such other conveyances.

Signature of Grantee

I certify that the grantee is a public utility regulated by the Public Service Commission or is a governmental agency and the grantee of the easements and/or licenses above; that it is true to the best knowledge of the grantee that the granting of each such easement and/or license is exempt from Real Estate Transfer Tax imposed by Article 31 of the Tax Law by reason that each such conveyance is for a consideration of five hundred dollars or less and/or the conveyance is being made to a governmental agency.

The Department of Environmental Conservation
Name of grantee

Signature of partner, officer of corporation, governmental official, etc.

Title

MADISON COUNTY CLERK

DENISE A. ROE

Receipt

Receipt Date: 01/13/2015 12:00:27 PM
RECEIPT # 2015246049

Recording Clerk: BS
Cash Drawer: CASH1
Rec'd Frm: MADISON COUNTY TREASURER
Rec'd In Person

Instr#: 2015-209
DOC: DEED
DEED STAMP: 1160
OR Party: MADISON COUNTY BOARD OF SUPERVISORS
EE Party: 47 UTICA STREET LLC

Recording Fees	
Cover Page	$5.00
Recording Fee	$25.00
Cultural Ed	$14.25
Records Management - County	$1.00
Records Management - State	$4.75
TP584	$5.00
RP5217 - County	$9.00
RP5217 All others - State	$241.00
Transfer Tax	
Transfer Tax	$0.00
DOCUMENT TOTAL: ---->	$305.00
Receipt Summary	
TOTAL RECEIPT: ---->	$305.00
TOTAL RECEIVED: ---->	$305.00
CASH BACK: ---->	$0.00
PAYMENTS	
Check # 011 ->	$305.00
MADISON CO TREASURER	

TAX FORECLOSURE DEED

WHEREAS, MADISON COUNTY HAS ACQUIRED TITLE TO CERTAIN LANDS IN MADISON COUNTY FOR NON-PAYMENT OF DELINQUENT TAXES IN ACCORDANCE WITH A PROCEEDING OF ARTICLE 11 OF THE NEW YORK STATE REAL PROPERTY TAX LAW, FORECLOSURE BY ACTION IN REM; AND

WHEREAS, SECTION 215 OF THE COUNTY LAW AUTHORIZES THE COUNTY TO SELL ALL ITS RIGHTS, TITLE AND INTEREST IN LAND IT OWNS; AND

WHEREAS, THE MADISON COUNTY BOARD OF SUPERVISORS BY RESOLUTION HAS AUTHORIZED THE MADISON COUNTY TREASURER TO CONVEY THE PREMISES HEREIN DESCRIBED TO THE GRANTEE HEREIN NAMED AT AND FOR THE CONSIDERATION SPECIFIED.

NOW, THEREFORE, THIS INDENTURE MADE THE 22ND DAY OF DECEMBER IN THE YEAR 2014 BETWEEN MADISON COUNTY THROUGH THE BOARD OF SUPERVISORS, BY CINDY J. EDICK, PARTY OF THE FIRST PART AND 47 UTICA STREET LLC 171 ROUTE 5 OF WEEDSPORT, NY 13166 PARTY OF THE SECOND PART;

WITNESSETH THAT THE SAID PARTY OF THE FIRST PART FOR AND IN CONSIDERATION OF THE SUM OF $67,000.00 TO IT DULY PAID HAS SOLD AND BY THESE PRESENTS DOES GRANT AND CONVEY TO THE PARTY OF THE SECOND PART, HEIRS, AND ASSIGNS, ALL THAT TRACT AND PARCEL OF LAND SITUATED IN THE VILLAGE OF HAMILTON, MADISON COUNTY AND STATE OF NEW YORK, DESCRIBED AS FOLLOWS:

ASSESSED TO: (Madison County)
COUNTY DEED DATED 4/18/02
Liber 1220, Page 296
Village of Hamilton MAP#: 153.83-1-13
ASSESSMENT: $105,400.00, ACREAGE: 0.27, PROPERTY CLASS: 432

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 ARTICLE 71 OF THE ENVIRONMENTAL CONSERVATION LAW.

TOGETHER WITH THE APPURTENANCES AND ALL THE ESTATE AND RIGHTS OF THE PARTY OF THE FIRST PART IN AND TO SAID PREMISES, TO HAVE AND TO HOLD PREMISES HEREIN GRANTED UNTO THE PARTY OF THE SECOND PART, HEIRS AND ASSIGNS FOREVER.

IN WITNESS WHEREOF, THE SAID PARTY OF THE FIRST PART HAS HEREUNTO SET HER HAND AND THE SEAL OF MADISON COUNTY THE DAY AND YEAR FIRST WRITTEN ABOVE.

MADISON COUNTY
THROUGH THE BOARD OF SUPERVISORS OF SAID COUNTY

BY Cindy J Edick
COUNTY TREASURER OF MADISON COUNTY, NEW YORK

STATE OF NEW YORK
MADISON COUNTY: SS

ON THE JANUARY 13, 2015 BEFORE ME, THE UNDERSIGNED, A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED CINDY J. EDICK, MADISON COUNTY TREASURER, PERSONALLY KNOWN TO ME OR PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE INDIVIDUAL WHOSE NAME IS SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT SHE EXECUTED THE SAME IN HER CAPACITY, AND THAT BY HER SIGNATURE ON THE INSTRUMENT, THE INDIVIDUAL, OR THE PERSON UPON BEHALF OF WHICH THE INDIVIDUAL ACTED, EXECUTED THE INSTRUMENT.

NOTARY PUBLIC, MADISON COUNTY, NEW YORK

Sandra M. Jordan

SANDRA M JORDAN
Notary Public, State of New York
Qualified in Madison County
Commission Expires August 17, 2018