OFF-SITE SOIL & GROUNDWATER INVESTIGATION REPORT

Standard Portable Off-Site
25 West Lake Road
Mayville, New York
Town of Chautauqua, County of Chautauqua
DEC Site No. C907030A

PREPARED FOR:

NYSDEC
270 Michigan Avenue
Buffalo, New York 14203

Report Date: March 17, 2010

OP-TECH ENVIRONMENTAL SERVICES INC.
500 Commerce Drive
Amherst, New York 14228
(716) 873-7680

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1.0 INTRODUCTION

OP-TECH was contracted by Region 9 of the New York State Department of Environmental Conservation (NYSDEC) to complete an Off-Site Soil and Groundwater Investigation at the property adjoining and adjacent to the former Standard Portable facility located at 21 Valley Street in Mayville, New York. A Work Plan dated October 30, 2009 was provided to the NYSDEC to serve as a guidance document for field work, laboratory analytical, and general project work.

This report provides a summary of the field methods, the sample analytical methods, and the sample analytical results collected as part of this investigation. This report will provide conclusions regarding the nature of subsurface conditions encountered, the field methods utilized to complete the field work, site geology and hydrogeology of the site, and a summary of the analytical results. It will also provide recommendations for additional work.

2.0 SITE DESCRIPTION

Former Standard Portable

The former Standard Portable Site is located in the Village of Mayville, New York. Jo Lyn Enterprises now owns and operates the facility, which is located at 21 Valley Street. The parcel consists of approximately 1.06 acres of land located within the lake plain directly west of Chautauqua Lake, across Route 394. The tax lot number is 262.15-2-10. The facility was reportedly operated Wappat Saw Company, and subsequently Standard Portable Products, Inc. These owners reportedly performed various metal working operations, including vapor degreasing using a Trichloroethene (TCE) degreasing unit. The spent TCE was reportedly stored in an underground septic tank adjacent to the building.

In 1996, the current owner (Jo Lyn Enterprises Ltd. d/b/a Standard Portable (Jo Lyn) purchased the facility and started manufacturing operations. Pre-purchase due diligence investigations identified the septic tank reportedly used as storage/disposal for TCE waste historically generated by the degreasing units of former manufacturers. As a result of these findings, the septic tank was removed in 1996 by Anderson International, Inc. for Jo Lyn. Waste generated from degreasers used by Jo-Lyn was containerized and transported off-site for disposal. Vapor degreasing operations ceased at the site in 2001.

In 2002, Jo Lyn sought to sell the subject site. As part of the due diligence process, a Phase II Site Investigation was performed on behalf of the potential buyer's lending institution. The results of the Phase II Site Investigation indicated significant levels of TCE contamination in the soil and groundwater in the vicinity of the former septic tank.

On July 7, 2009, OP-TECH received Call Out #118370 from NYSDEC Region 9 to, "delineate the TCE and daughter product plume off-site, and to determine if the TCE plume is posing a threat to public health or the environment." Subsequent to receipt of the call out, OP-TECH met with the NYSDEC to further discuss the project. In addition, OP-TECH personnel completed a site visit to evaluate site conditions, evaluate site access and observe general site conditions. Lastly, a work plan and cost estimate was provided to the NYSDEC to review and approve prior to the commencement of field activities.

Off-Site Adjacent Properties

Property directly south of the former Standard Portable site consists of three parcels of land as follows:

- Directly south is a 13 acre parcel with the tax lot number of 262.15-2-13;
- Adjacent to the southwest is a 2.7 acre parcel with the tax lot number 262.15-2-16; and

- The old railroad right of way consisting of 1.1 acres with the tax lot number 262.15-2-14.

These parcels are reportedly owned by the Village of Mayville and are not developed at the present time.

Across Route 394 is a 14.3 acre parcel with the tax lot number 262.16-2-10. This parcel is developed as a park with playing fields, a small beach, a boat launch (north end), and a building with changing rooms, a snack bar and restrooms.

3.0 SITE INVESTIGATION OBJECTIVES

The overall objective of the Off-Site Groundwater Investigation was to "delineate the TCE and daughter product plume off-site, and to determine if the TCE plume is posing a threat to public health or the environment." The call out requested completion of the following tasks to fulfill the project objectives:

1. Using a licensed surveyor, complete a site map as well as another site map which shows both the on-site, off-site and the bank of Lake Chautauqua.
2. Complete approximately 30 Geoprobe® borings into the water table, to a depth of approximately 12 feet below ground surface.
3. Complete two additional Geoprobe® borings to 30 feet below ground surface (in a clean portion of the aquifer) to evaluate the geology of the area at depth.
4. Using a Geoprobe®, collect at least three soil samples above the water table to confirm that the vadose zone is free of TCE (on-site work concluded that the unsaturated zone was free of contamination).
5. Using a Geoprobe®, collect approximately 20 soils samples from below the water table to determine if there is dense non-aqueous phase liquid (DNAPL) in the aquifer.
6. Install approximately 20 groundwater monitoring "Micro-wells" in the Geoprobe® borings that are advanced as part of this investigation.
7. Complete two synoptic rounds water levels from both on-site and off-site monitoring wells including a water elevation at Lake Chautauqua.
8. Complete two separate rounds of groundwater sampling for chlorinated volatile organic compounds (VOCs)
9. Prepare a draft summary report of findings that includes documentation of all work performed along with the appropriate tables and figures.
10. Upon receipt of comments from the NYSDEC, provide a revised final electronic and paper copy of the finalized report.

4.0 SCOPE OF WORK

The following activities were completed to meet the NYSDEC project objectives. This field work was completed with geologists, a hydrogeologist, technicians, laborers, drillers, and driller's assistants supplied by OP-TECH and CME Associates. The following sections of this report provide a detailed description of the activities that were required to complete this work.

Planning and Project Management Activities

The following planning and project management activities took place to prepare for the completion of field activities associated with this project.

Initial Site Meeting. Prior to the start of field activities, a meeting was held at NYSDEC Region 9 offices in early July of 2009 to discuss the objectives of the project, and for the NYSDEC to provide OP-TECH with

background investigative information already collected on the Jo Lyn property. This meeting was also used to discuss and layout the approach for the field investigation.

Site Visit. In mid July of 2009, a site visit was completed by the NYSDEC Project Manager and OP-TECH personnel to evaluate site conditions, site access to observe general site conditions, and evaluate potential changes to proposed scope of work.

Work Plan Preparation. A Work Plan was prepared at the request of the NYSDEC to provide an understanding of the details of the scope of work to be completed for this investigation. It also included an estimate of the amount of time and the costs that would be required to complete the scope of work. The draft work plan was submitted on September 15, 2009 and was finalized on October 30, 2009.

Meeting with Village Personnel. On October 13, 2009, representatives from OP-TECH and the NYSDEC met with the Village of Mayville personnel to discuss access to the work area (Village property), and to discuss the location(s) of Village water and sewer lines with respect to the work area. In addition, additional information was provided regarding the former rail bed that transects the study area.

Develop Health and Safety Work Plan. A site specific health and safety plan (HASP) was develop to provide guidance for the safe completion of field activities associated with this project, and to provide information for emergency medical assistance. .

Identification and Mark Out of Underground Utilities. Approximately one week prior to the start of subsurface intrusive activities, Dig Safely New York was contacted to mark out subsurface utilities. In addition, the Village of Mayville was also contacted to mark out water lines and force main sewer lines in the project area.

Mobilization of Equipment and Personnel to the Site. On November 4, 2009, the Geoprobe® Model 6610DT was mobilized to the site to commence field activities. Drilling activities took place from November 4th to November 13th.

Site Survey and Base Map

A request for quotation to complete a survey of the project area was put out to four Professional Land Survey companies to:

- Survey the parcels immediately south and east of the Standard Portable property;
- Combine this information electronically with the survey already completed for the former Standard Portable facility.
- Place new soil boring and groundwater monitoring wells that were completed as part of this project on the base map.
- Provide the base map in CAD format which was used for the basis of three dimensional geologic and hydrogeologic data that was collected as part of this investigation.

Rogers Survey in Jamestown, New York was selected as the qualified lowest bidder for the survey work. On November 4th, Rogers Survey began field survey services which were completed in mid November. A second survey event took place in early February to survey in the elevations of groundwater monitoring wells on the Jo-Lyn property. Figure 1 is an attached pocket map that is the surveyed base map for the project area. Figure 2

provides the locations of the soil borings that were advanced and the groundwater micro-wells that were installed. In addition, the Lake Chautauqua surface water measuring point is noted on Figure 1 as a paint mark on top of wall.

Site Investigation

OP-TECH provided an experienced three person crew, consisting of a Hydrogeologist, a Geoprobe® Operator and a driller's helper to advance the soil borings and install the groundwater monitoring "micro-wells. A Geoprobe® Model 6610DT hydraulic push/percussion hammer soil-probing unit, mounted on rubber tracks was used to advance the boreholes and install the one-inch micro-wells. Since a portion of the work area is a town park, care was taken to preserve the integrity of the park turf by laying out the boring program in close proximity to existing roads within the Town Park.

Subsurface investigation activities were conducted under Level D personal protective equipment (PPE) with nitrile gloves. The work zone was monitored with a photo-ionization detector (PID). Sustained readings in the breathing zone of greater than 5 parts per million did not occur, thus work activities were continuous.

A temporary decontamination pad was set up to assist with decontamination of drilling and sampling equipment. Drill bits, and equipment that came into contact with subsurface soils was be decontaminated in between runs and between each borehole.

Because of the presence of known groundwater contamination immediately upgradient, any drill cuttings, PPE, decontamination water or other investigative derived waste generated during advancement of the 30 soil; borings will be containerized in 55 gallon drums.

Background Soil Borings. Two geologic borings (SBB-1 and SBB-2) were advanced to a depth of approximately 30 feet below ground surface (BGS) outside of the suspected area of the groundwater contaminant plume at the locations noted on Figure 1. Soil boring SBB – 1 was drilled to the southwest of the study area outside of the area of suspected groundwater contamination. Soil boring SBB – 2 was drilled to the northeast of the study area outside of the area of suspected groundwater contamination. The objective of this task was to evaluate the nature of subsurface materials, which are reportedly sands from ground surface to approximately 12 feet below ground surface. A clay unit is reportedly located at approximately 12 feet below ground surface; however the thickness and lateral extent of this unit is unknown. Thus, these soil borings were advanced to evaluate the thickness of the clay unit, and to evaluate the nature of the primary aquifer that is reportedly present below the clay unit.

Investigative Soil Borings. Twenty Geoprobe® borings were advanced downgradient of the former Standard Portable facility and upgradient of Chautauqua Lake along three profiles oriented generally northwest-southeast. These traverse lines are oriented perpendicular to the expected groundwater flow direction (Figure 1). Soil borings GP-3, GP-9, and GP-11 had additional soils borings associated with them (i.e. GP-3A) because extra sample volume was required for laboratory analysis, exceptionally low recovery for sample, and/or extracted sample representations was questionable. A field identification table is presented in Table 1 to assist with the review of field activities that took place. Soil borings were located as follows:

- Profile 1 –Soil borings GP - 1 to GP - 7 located approximately 50 feet southeast of the Standard Portable property boundary at its closest point. Soil borings were spaced approximately 50 feet apart. Five of the eight soil borings were converted to micro-wells as follows:
    - GPW – 2;
    - GPW – 3;
    - GPW – 4;

    - GPW – 5; and
    - GPW – 6.

- Profile 2 – Soil borings GP – 8 to GP - 14 are approximately130 feet southeast of the Standard Portable property boundary at its furthest point along the south end of the profile, and approximately 70 feet southeast of the property boundary at the north end of the profile. Traverse 2 is sub-parallel to Profile 1. Soil borings are spaced approximately 50 feet apart. Five of the seven soil borings were converted to micro-wells as follows:
    - GPW – 8;
    - GPW – 9;
    - GPW – 10;
    - GPW – 13; and
    - GPW – 14.
- Profile 3 – Profile was divided into two segments by Route 394 consisting of GP – 15 through GP – 17 that were advanced to the west of Route 394; and GP – 18 through GP – 20 that were installed in a north south line parallel and east of Route 394. The western segment of the profile (GP – 15 through GP – 17) is approximately 200 feet southeast of the Standard Portable property boundary, and approximately 90 to 100 feet south of Profile 2. Soil borings on the eastern end of Profile 3 (GP – 18 through GP – 20) are approximately 170 to 270 feet from the property line. Borings on Profile 3 were spaced approximately 50 to 100 feet apart. Three of the six soil borings along Profile 3 were converted to micro-wells as follows:
    - GPW – 17 (west of Route 394);
    - GPW – 18 (east of Route 394); and
    - GPW – 20 (east of Route 394).

Soil borings were drilled to a depth of approximately 15 feet, or two feet into the clay unit; with the exception of GP-15, GP-16, and GP-17 which were drilled to a depth of 20 feet because the presence of the clay layer was at greater depths. A Macro-Core soil sampler with acetate liners was used to advance the borings and collect soil samples. Soil samples were subdivided into two-foot intervals, and characterized with respect to predominant soil types (i.e., gravel, sand, silt, clay), color, and relative moisture content (i.e., moist, wet, saturated); and examined for characteristic chlorinated odors. These descriptions are presented on the soil boring logs that are attached as Appendix A. Sample recovery is noted in inches on the boring logs as recovered sample over the entire run length of the sample.

Soil samples were screened for volatile organic compounds (VOCs) using a PID equipped with a 11.7eV lamp. The PID screening was performed by direct-read and headspace screening methods, by placing soil samples in sealable plastic bags, and allowing the samples to warm prior to screening with the PID. The PID screening was then performed on the soil headspace of each containerized sample, to provide a general indication as to the VOC concentrations released from the soil into the sample headspace. The results of the soil sample characterization and PID screening was recorded on the Geoprobe® Investigation Logs for the respective borings (Appendix A). PID screening is recorded as the direct read measurement over the background value.

Soil sample splits with the highest PID headspace reading below the top of the water table at each soil boring location were placed in clean glassware supplied by the contract laboratory, labeled with a unique

sample identification (i.e.; SB-1 (8-10 feet), packed on ice and then will be submitted for laboratory analysis to the contract laboratory, (Test America) using strict chain of custody protocols.

In addition, soil sample splits from above and below the water table at three borings were also submitted for laboratory analysis using the same criteria described above plus additional analysis.

Installation of Groundwater Monitoring Wells. At soil boring locations where significant PID readings were noted in screened soil boring samples, a groundwater monitoring was installed. Newly installed wells were numbered according to the soil boring designation (GP) with a "W" added for those soil borings where a micro-well was installed (i.e.: GPW-2).

To install the micro-wells, the Geoprobe® drill unit was moved one to two feet from the soil boring, and a drive point was advanced to 13 feet BGS to install the micro-well. One-inch diameter schedule 40 PVC monitoring wells (micro-wells) were constructed with a threaded 1-inch I.D. PVC plug at the bottom, a ten-foot screen (with 0.010-inch slots) from approximately 13 to 3 feet BGS and were finished with compatible one-inch diameter schedule 40 PVC riser pipe.

Following placement of the well screen and riser pipe, the Geoprobe® casing was withdrawn from each borehole, and the annular space surrounding the screen was filled with No. 1 silica sand, extending approximately one foot above the top of the screen. A bentonite seal comprised of hydrated granular bentonite was then placed above the sand pack to grade. A generalized monitoring well construction diagram is attached as Figure 3.

The monitoring wells were finished at the surface with lockable j-plugs at the top of the PVC casings. An eight-inch diameter protective flush-mounted curb boxes, embedded in concrete (approximately two inches below the ground surface) were used to complete the micro-wells at the surface.

Soil borings where micro-wells were not installed were plugged using granular bentonite that was tremmie grouted from the bottom of the borehole to ground surface.

Monitoring Well Development. Once installed, the newly installed monitoring wells were allowed to set up for a minimum of one week. On November 23rd and 24th, the newly installed micro-wells were developed with a peristaltic pump and tubing. Due to the variable recharge rates of the micro-wells, 10 well volumes could not be removed from all of the micro-wells. Micro-wells were slow to recharge due to the low hydraulic conductivity that can be associated with fine-grained soils. Purged water was monitored for pH, temperature, conductivity and turbidity. Well development information was recorded Well Development Logs for each specific micro-well (Appendix B).

Because of the presence of known groundwater contamination immediately upgradient and PID readings on the soil samples, development water was containerized in 55 gallon drums that were clearly marked for subsequent disposal purposes. All drummed soil, purge water and investigative derived waste was staged on-site at a location mutually selected by the NYSDEC and Jo-Lyn.

Groundwater Sampling. On December 8th (prior to the collection of groundwater samples), a synoptic round of groundwater elevations was collected from the 13 newly installed micro-wells and 9 of the existing site monitoring wells located at the former Standard Portable site. In addition, a water elevation was noted for Lake Chautauqua by marking the water level using paint on the retaining wall at the Park beach along the lake. A second synoptic round of water levels has yet to be completed and is planned for the early spring of 2010.

Groundwater samples were collected on December 7th through the 9th and 14th from the 13 newly installed wells off-site using low flow sampling methods (a peristaltic pump and dedicated tubing) for each respective groundwater sampling point. Due to the properties of the subsurface, true low-flow sampling techniques proved to be inadequate for the collection of groundwater samples. Well drawdown could not be controlled due to the low permeability associated with the fine grained soils, lack of significant recharge of the groundwater system, and high turbidity due to ineffective sand filter packs. Standard low flow techniques were followed while attempting to purge the well prior to sampling. Water quality parameters were collected and allowed to stabilize with the exception of turbidity and in some instances oxidation reduction potential. Samples were collected as well drawdown was occurring. Groundwater sampling logs are included as Appendix C.

Investigative Derived Waste. Soil cuttings, water from decontamination procedures, personal protective equipment and water associated well development and groundwater sampling was drummed and stored on site until it was disposed of in early February 2010. Solids were disposed of at Modern Landfill in Lewisberry, PA, and liquids were disposed of at the DuPont Wastewater Treatment facility in DE.

Laboratory Analysis. A total of 24 soil samples were submitted to the contract laboratory for analysis. Twenty-one of the soil samples were from below the water table, while three of the soil samples [GP – 9 (2-4'), GP – 14 (2-4'), and GP – 3A (2-4')] were from above the water table. All of the soil samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs) using USEPA Method 8260. In addition, six of these soil samples were also analyzed for TCL semi-volatile organic compounds (SVOCs) using USEPA Method 8270; TCL pesticides using USEPA Method 8081; TCL polychlorinated biphenyls (PCBs), using USEPA Method 8082, and target analyte list (TAL) metals using USEPA Method 6010.

Thirteen groundwater samples (13 from the new micro-wells, a field duplicate and trip blanks were submitted to the contract laboratory for analysis for TCL-VOCs using USEPA Method 8260. Two of the groundwater samples (GPW - 4, and GPW - 17) were also analyzed for SVOCs using USPA Method 8270, TCL pesticides using USEPA Method 8081; PCBs using USEPA Method 8082, and TAL metals using USEPA Method 6010. Test America, certified under the New York State Department of Health's Environmental Laboratory Approval Program (ELAP), completed the analyses for both the soil and groundwater samples on a standard two-week laboratory turn-around-schedule, directly contracted to the NYSDEC.

One waste sample from drummed soil and purge water was analyzed for disposal purpose. The drummed solids were analyzed as follows:

- TCLP VOCs by USEPA Method 1311/8260B;
- TCLP SVOCs by USEPA Method 1311/8270C;
- PCBs by USEPA Method 8082;
- TCLP pesticides by USEPA Method 1311/8081A;
- TCLP metals by USEPA Method 6010;
- Percent solids;
- pH;
- HCN released from waste; and
- H2S released from waste.

Drummed liquids were analyzed for the same parameters including flashpoint.

5.0 FINDINGS AND RESULTS

Subsurface Geology

Based on field observations collected from the completion of soil borings and the installation of groundwater monitoring micro-well; the subsurface conditions that exist onsite are relatively homogenous and exhibit little lateral and vertical variations. Field based soil identifications procedures followed ASTM D 2487 for the Unified Soil Classification System (USCS).

Background Soil Borings. Two offsite direct push soil borings SBB-1 and SBB-2 were useful in gathering subsurface data for creating reference geologic field profiles before site investigation in the potentially contaminated areas (Figure 1). SBB-1 was located to the southwest of the Former standards portable site, between the recreational nature trail and Mud Creek; SBB-2 was northeast of the site between Chautauqua Lake and State Rt. 394. Both of these borings were drilled to a depth of 30 feet BGS. The subsurface soil conditions that exist off site (south and east) of the former Standard Portable site are similar to subsurface soils already characterized on the Standard Portable site.

SBB-1 encountered an ORGANIC SOIL (OL/OH) in the upper 1.5feet of the boring. Underlying this was a FILL unit consisting of sand and gravel, with particles and fragments of brick, wood, cinder, and ash. Some of this deleterious material that was observed from 1.5 to 6 feet had characteristics of a 'Napthalene-like' odor. This odor was likely attributable to the close proximately of a past railroad transportation line that was located within the immediate area. From 7 to 12 feet BGS was a fluvial deposit consisting of fine to medium SAND with gravel. A lacustrine deposit of CLAYS and SILTS with alternating laminae of fines and some coarse partings was encountered throughout the remainder of the borehole from 12 to 30 feet BGS.

Soil conditions for SBB-2 were similar to SBB-1 with a few exceptions; deleterious fill and an alluvial unit were not present. ORGANIC SOILS and GRAVELS were observed in the upper two feet of SBB-2. From 2 to 25 feet BGS, lacustrine gray CLAY was encountered with laminae of silts and partings of sand present. At the top of the lacustrine CLAY unit, between 2 and 6 feet below ground surface, was SILT with clay, which was mottled; a representation of chemical weathering associated with the interaction of the water table and Chautauqua Lake. From 25 to 30 feet, brown predominately coarse sand was observed.

The two background soil borings that were advanced outside of the suspected area of the contaminant plume indicated that clean soils are present to a depth of approximately 30 feet at those specific locations.

Investigative Soil Borings. A description of the soils that were encountered during the field investigation is described below:

Top Soil Unit – This is the soil stratum that was encountered at the ground surface and directly beneath up to depths of 4 feet. This unit primarily consists of an ORGANIC SOIL, generally moist from the high organic content, various proportions of sand and gravel, dry to moist. At some locations the presence of an anthropogenic material was encountered, suggesting comingling of soil properties with the underlying soil unit or disturbances to the subsurface from human activities.

Fill Unit – This is the underlying subsurface unit beneath the Top Soil unit, varying in thickness throughout the off-site investigation. The average thickness of the fill unit was 4 feet, at some locations it was not present, and its maximum thickness was 7 feet at GP-6 (GPW-6). The soil description for this unit consisted of primarily black to brown sand and gravel with fragments, particles, and specks of brick, cinder, ash, coal, and wood, and was dry to moist.

Lacustrine Unit – This is the depositional unit that is encountered through the remainder of all borings that were completed. This unit consists mainly of Silts and Clays of various proportions, alternating in laminae. These fine-grained soils exhibit slow to rapid dilantency and none to medium plasticity based on manual field tests. Also, present in this unit were frequent partings and seams of fine to medium sand and randomly occurring pockets and lenticular deposits of sand and gravel. In the upper few feet of the Lacustrine Unit there is silty sand that is oxidized and mottled from the fluctuation of the groundwater table. The thickness of this unit ranges from 0.5 feet to 6.5 feet with an average 2.0 feet. In previous onsite reports a fine grained sand unit is reported existing within the upper fifteen feet of the subsurface, that is on top of the fine grained silt and clay unit. This was not readily observed in the field by manual and visual classification of the soils encountered. No soil samples were collected for soil material characteristic testing.

Hydrogeology

Site wide static water levels (SWL) were collected from the thirteen off-site newly installed micro-wells and nine existing on-site wells. One synoptic round of SWLs was been collected on December 7th, 2010. A ground water contour map is provided (Figure 4). The manual elevation collected at the Chautauqua Lake survey mark at the Village of Mayville public park was 1306.99 feet. The Chautauqua Lake elevation on December 7th 2010 was 1307.46 feet at the United States Geological Survey (USGS) 03013946 Chautauqua Lake at Bemus Point NY gauging station. The average static water level depth was 2.12 feet, with the shallowest depth to water at GPW-10 being at 0.3 feet BGS and the greatest static water level depth was 4.26 feet BGS at GPW-6. All SWL measurements were collected from the north facing side of the top of well riser. (A data summary table of groundwater elevations is provided in Table 4).

Field observations from the field sampling, well development and groundwater sampling events included slow recharge or the lack of general permeability of subsurface soils; normally associated with predominately fine grained soils.

Groundwater flow direction for the majority of the site is to the northeast. A groundwater divide exists along the southern portion of the site where groundwater flow is to the southeast. A groundwater contour map is attached as Figure 4. The onsite groundwater elevations are absolute elevations; new survey data referenced the old survey data benchmark as the operating nut on the fire hydrant whose elevation was 1323.24 feet. Groundwater elevations were then determined by calculating out the difference of the onsite reference elevations (dated June 2009) and the benchmark of 100 feet. This number was then subtracted from the current survey point of 1323.24 feet to determine an absolute elevation of the top of riser of the monitoring well.

A total VOCs iso-concentration map was created from the groundwater analytical data and is attached as Figure 5. The map indicates that there is a southwest to northeast trend of the total VOCs concentration in the groundwater. The highest VOC concentrations are at GPW-2 (65,860 ppb) and decrease along the first traverse towards GPW-6 (16,150 ppb). This most likely illustrates that the VOCs are traveling along the bedding in the underground utility corridor of the sanitary water lines for the North Chautauqua Lake Sewer District, which is likely acting as a preferential pathway for contaminants.

Headspace Field Screening Results

Soil samples were screened for VOCs using a PID equipped with a 11.7eV lamp. The PID screening was performed by direct-read and headspace screening methods, by placing soil samples in sealable plastic bags, and allowing the samples to warm prior to screening with the PID. The PID screening was then performed on the soil headspace of each containerized sample, to provide a general indication as to the VOC concentrations released from the soil into the sample headspace. The results of the headspace screening are summarized on Table 1. Fifteen of the borings had headspace screening results below 5 ppm. One boring (GP-1) had a high headspace reading between 5 and 10 ppm (6.9 ppm). GPW-14 had a high

headspace between 10 and 20 ppm at 15.3 ppm. The following borings had headspace reading greater than 20 ppm:

- GP – 2 at 112 ppm;
- GP – 3 at 251 ppm;
- GP – 4 at 41 ppm;
- GP – 5 at 808 ppm; and
- GP – 6 at 173 ppm.

Most of the high readings were within the water table from nine to 13 feet BGS.

Soil Sample Results

A total of 24 soil samples were analyzed as part of this investigation.

Volatile Organic Compounds in Soil. Fifteen VOCs were detected in the soil samples (An analytical summary is presented in Table 2A). Two of those compounds (acetone and methylene-chloride) were detected in most of the samples at low concentrations, and are believed to be laboratory contaminants. Trichloroethene (TCE) was detected in four of the boring at levels above the soil cleanup objectives (SCOs) for restricted commercial use in 6 NYCRR – Environmental Remediation Programs:

- GP-2 (8-10') was at 490 ppm;
- GP-3 (10-12') was at 390 ppm;
- GP-3A (12-14') was at 220 ppm;
- GP-5 (8-10') was at 200ppm;
- And, GP-6 (12-14') was at 410 ppm.

Semi-Volatile Organic Compounds in Soil. Six soil samples were analyzed for SVOCs (An analytical data summary is presented in Table 2B). Four of the six samples had no detections of SVOCs. In two of the samples analyzed for SVOCs [GP-14 (2-4') and GP–3A (2–4')], seventeen SVOCs were detected, all below the SCOs for restricted commercial use in 6 NYCRR – Environmental Remediation Programs.

Metals in Soil. Six soil samples were analyzed for total metals (An analytical data summary is presented in Table 2C). Seventeen metals were detected; however, these metals were within the established range for naturally occurring metals in the Eastern U.S.A. Background published in the TAGM 4046 SCOs. No metals were detected at levels above the SCOs for restricted commercial use in 6 NYCRR – Environmental Remediation Programs.

Pesticides in Soil. Six soil samples were analyzed for pesticides. Pesticides were detected in only one of the six samples (Table 2D). Four different pesticides were detected in sample GP-3A (2-4') at concentrations below the soil cleanup objectives (SCOs) for restricted commercial use in 6 NYCRR – Environmental Remediation Programs.

Groundwater Sample Results

Volatile Organic Compounds in Groundwater. Fourteen groundwater samples were analyzed for VOCs with 16 VOCs originally detected. VOC concentrations in groundwater samples from the monitoring wells sampled ranged from non-detect to 65,680 parts per billion (ppb). The results are presented in Table 3A and are compared against the Technical and Operational Guidance Series (TOGS) 1.1.1 "Ambient Water Quality

Standards and guidance Values and Groundwater Effluent Limitations." Some of the samples were diluted because analytes of concern were at higher concentrations than the detection range of the instrumentation. Analytes that were reported at low concentrations during the original analysis run were diluted out during the reanalysis; this is because the reanalysis dilution is based on the greatest estimated analyte concentration. Acetone was detected in two of the samples and is believed to be a laboratory contaminant.

- 1,1,2-Trichloroethane was detected in two of the samples at concentrations above the guidance value;
- 1,1-Dichloroethane was detected in four of the samples, one which was above the guidance value;
- 1,1-Dichloroethene was detected in five samples, and four were above the guidance value;
- 1,2-Dichloroethane was detected in only one of the samples at a concentration less than the laboratory's reporting limit but above the method detection limit (j value);
- Benzene was detected in three samples at concentrations less than the laboratory's reporting limits and above their method detection limit (j value);
- Chloroethane was detected in four samples, two of which were above the guidance value;
- cis-1,2-Dichloroethene was detected in nine samples, seven of these samples were above the guidance value, and six of these samples had to be diluted and reanalyzed because of elevated concentrations;
- Ethylbenzene was detected in one sample;
- Methylcyclohexane was detected in one sample at a concentration less than the laboratory's reporting limits and above the method detection limit (j value);
- Tetrachloroethene was detected in three samples and all were above the guidance value;
- Toluene was detected in five samples, one of the samples was above the guidance value;
- Trans-1,2-Dichloroethene was detected in seven samples, five of which were above the guidance value and had to be diluted and reanalyzed because of elevated concentrations;
- Trichloroethene was detected in eleven samples, six of which were above the guidance value and had to be to be diluted and reanalyzed because of elevated concentrations;
- Vinyl Chloride was detected was detected in seven samples, six of which were above the guidance value and had to be diluted and reanalyzed because of elevated concentrations;
- Xylene was detected in only one sample and was above the guidance value.

Semi-Volatile Organic Compounds in Groundwater. Two groundwater samples were analyzed for SVOCs and were all non detect for all analytes (An analytical data summary is presented in Table 3B).

Metals in Groundwater. Two groundwater samples were analyzed for both total and dissolved metal analysis; dissolved metals were filtered in-house by the contract analytical laboratory. Metal analytes were detected and are most likely associated as naturally occurring metal in the eastern USA. (An analytical data summary is presented in Table 3B).

Cyanide in Groundwater. Two groundwater samples were analyzed for Cyanide and both were non detect (An analytical data summary is presented in Table 3B).

Pesticides in Groundwater. Two groundwater samples were analyzed for pesticides. No pesticides were detected in the samples (An analytical data summary is presented in Table 3B).

Polychlorinated Biphenyls in Groundwater. Two groundwater samples were analyzed for PCBS and none were detected (An analytical data summary is presented in Table 3B).

6.0 ANALYTICAL REPORTS

Analytical laboratory reports from Test America, the contract laboratory, have been forwarded to the NYSDEDC in advance of this report (See Appendix D – Laboratory Analytical Reports).

7.0 SUMMARY

The off-site site investigation of Former Standard Portables was completed in accordance with the NYSDEC Work Plan dated October of 2009. OP-TECH completed this work at the direction of NYSDEC Region 9 personnel. Chemical analysis of samples was completed by Test America, under direct contract to the NYSDEC. Soil and groundwater sample results from soil borings and the newly installed micro-wells indicate off-site impacts and a possible preferred migration pathway for groundwater along the utility corridor located immediately east of the site.

8.0 RECOMMENDATIONS

Additional subsurface investigative activities are recommended to evaluate potential migration of the groundwater contaminant plume northward toward Chautauqua Lake through the bedding materials associated with the utility corridor located just east of the former Standard Portable facility. Test pits along with soil and groundwater sampling is recommended northward along the utility corridor to evaluate subsurface conditions, and the presence/absence of a preferential pathway for contaminant migration.

Todd G. Bown

Norman K. Wohlabaugh, PG, CPG

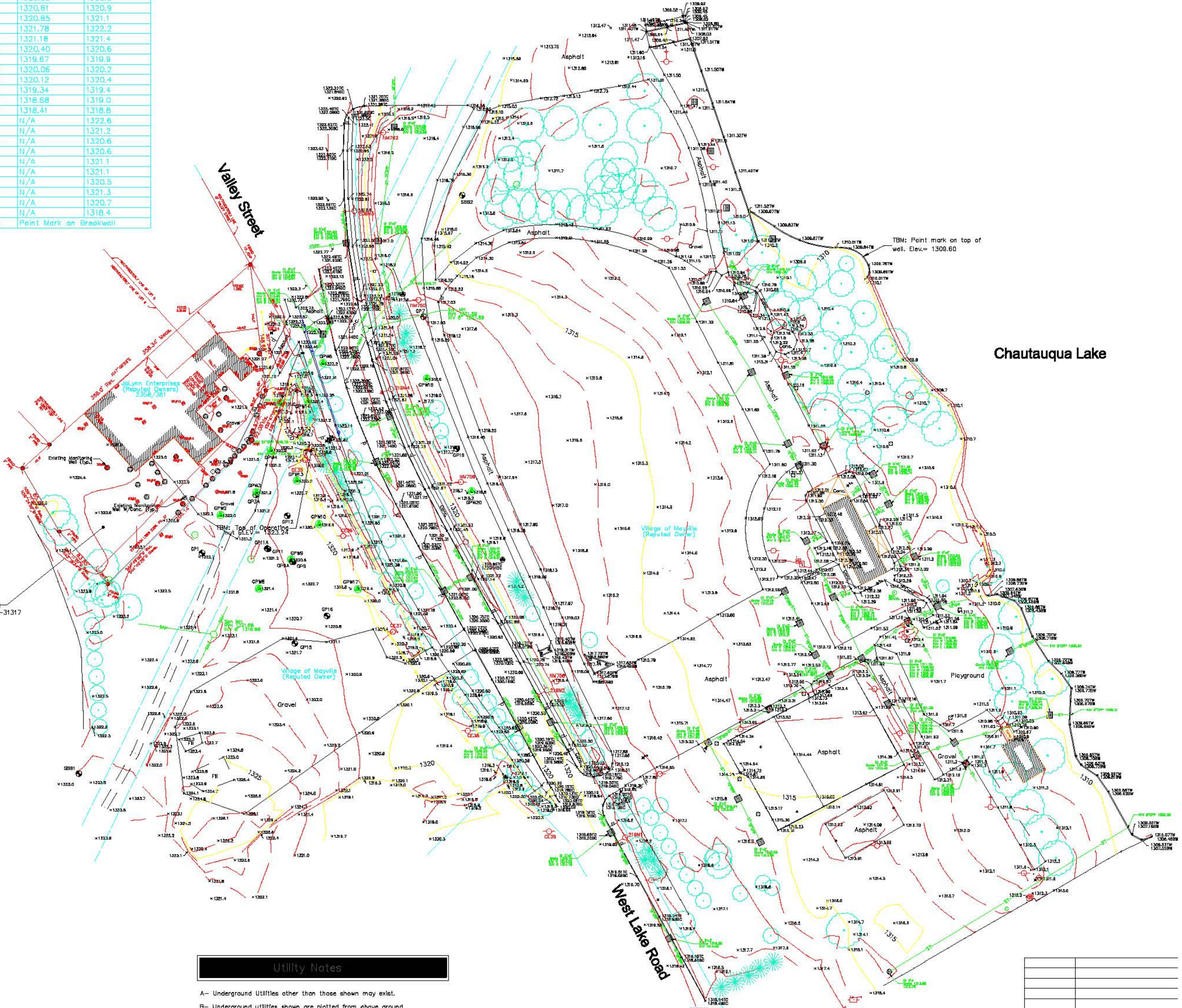
FIGURES

Point	Northing	Easting	Elevation	Riser Elev.	Ground Elev.
GPW2	817973.96FT	900728.75FT	1322.05	1321.78	1322.0
GPW3	818000.79FT	900771.07FT	1321.19	1320.93	1320.9
GPW4	818049.86FT	900787.78FT	1321.06	1320.81	1320.9
GPW5	818104.79FT	900799.14FT	1321.17	1320.85	1321.1
GPW6	818152.43FT	900849.12FT	1322.11	1321.78	1322.2
GPW8	817887.76FT	900773.90FT	1321.47	1321.18	1321.4
GPW9	817922.06FT	900811.57FT	1320.60	1320.40	1320.6
GPW10	817963.48FT	900844.41FT	1319.84	1319.67	1319.9
GPW13	818014.60FT	900818.48FT	1320.29	1320.06	1320.2
GPW14	818108.00FT	900831.33FT	1320.40	1320.12	1320.4
GPW17	817887.13FT	900869.88FT	1319.55	1319.34	1319.4
GPW18	818134.14FT	900970.85FT	1318.90	1318.68	1319.0
GPW20	818001.89FT	901023.57FT	1318.67	1318.41	1318.8
GP1	817929.4FT	900707.0FT	N/A	N/A	1322.6
GP3A	817997.7FT	900769.9FT	N/A	N/A	1321.2
GP9	817919.0FT	900814.2FT	N/A	N/A	1320.6
GP9A	817919.3FT	900813.0FT	N/A	N/A	1320.6
GP11	817934.2FT	900784.5FT	N/A	N/A	1321.1
GP11A	817934.7FT	900783.4FT	N/A	N/A	1321.1
GP12	817973.1FT	900807.0FT	N/A	N/A	1320.5
GP15	817823.4FT	900815.8FT	N/A	N/A	1321.3
GP16	817855.7FT	900853.7FT	N/A	N/A	1320.7
GP19	818051.6FT	901005.7FT	N/A	N/A	1318.4
TBM	818277.1FT	901483.2FT	1309.60	Paint Mark on Breakwall	

HORZ. Datum: NAD83(CORS96)(EPOCH:2002.0000)
VERT. Datum: NAVD88 (GEOID03)

COORDINATES: NAD 83

BORE HOLE #	LAT	LONG
1	79.4975	42.2417
2	79.4975	42.2420
3	79.4975	42.2415
4	79.4978	42.2414
5	79.4980	42.2415
6	79.4981	42.2416
7	79.4982	42.2417
8	79.4980	42.2418
9	79.4975	42.2416
10	79.4974	42.2418
12	79.4976	42.2417
12	79.4976	42.2417
13	79.4978	42.2418
14	79.4978	42.2417
15	79.4979	42.2418
16	79.4978	42.2415
17	79.4976	42.2416
18	79.4978	42.2416
19	79.4979	42.2416



NOTE: Shaded information shown in this area is from a plan by Foit-Albert Associates. Dated June 30, 2006 and last revised Sept. 28, 2006. Noted as Job No. 06-31317

Miscellaneous Notes

1– Contour Interval = 1 foot

2– Vertical Datum NAVD88 (GEOID03)

3– Boundary shown is based on Tax Maps

Legend of Symbols & Abbreviations

d. – DEEDED
m. – MEASURED
calc. – CALCULATED
TC – TOP OF CURB
BC – BOTTOM OF CURB
TW – TOP OF WALL
BW – BOTTOM OF WALL
● – IRON STAKE FOUND
○ – IRON STAKE SET
– NAIL/MONUMENT FOUND (as noted)
– "MAG NAIL" SET
– MAIL BOX
– TELEPHONE PEDESTAL
– UTILITY POLE
– UTILITY POLE WITH LIGHT
– GUY ANCHOR
– LIGHT POLE
– SIGN POST
– MANHOLE
– FIRE HYDRANT
– DROP INLET
– GAS VALVE
– GAS LINE MARKER
– GAS METER
– WATER VALVE
– WATER METER
—SAN— – SANITARY SEWER
—ST— – STORM SEWER
—G— – GAS LINE
—W— – WATER LINE
—OE— – OVERHEAD ELECTRIC SERVICE
—OT— – OVERHEAD TELEPHONE SERVICE
—CTV— – OVERHEAD CABLE TELEVISION SERVICE
—UT— – UNDERGROUND TELEPHONE SERVICE

Utility Notes

A– Underground Utilities other than those shown may exist.

B– Underground utilities shown are plotted from above ground observation only. No sub-surface investigation or location was performed during the course of this survey.

C– The plotted location of underground utilities are based entirely on survey locatable above ground features, such as valves, hydrants, catch basins, manholes and utility markers. The location shown should be considered approximate only. Contact the appropriate authority prior to any excavation.

"This survey was prepared without the benefit of an Abstract of Title, and is subject to any facts that may be revealed by an examination of such."

"Unauthorized alteration to a survey map bearing a licensed land surveyors seal is a violation of section 7209 sub-division 2, of the New York State Education Law."

"Only copies from the original of this survey marked with an original of the land surveyor's embossed seal shall be considered to be valid true copies."

60 0 60 120 180

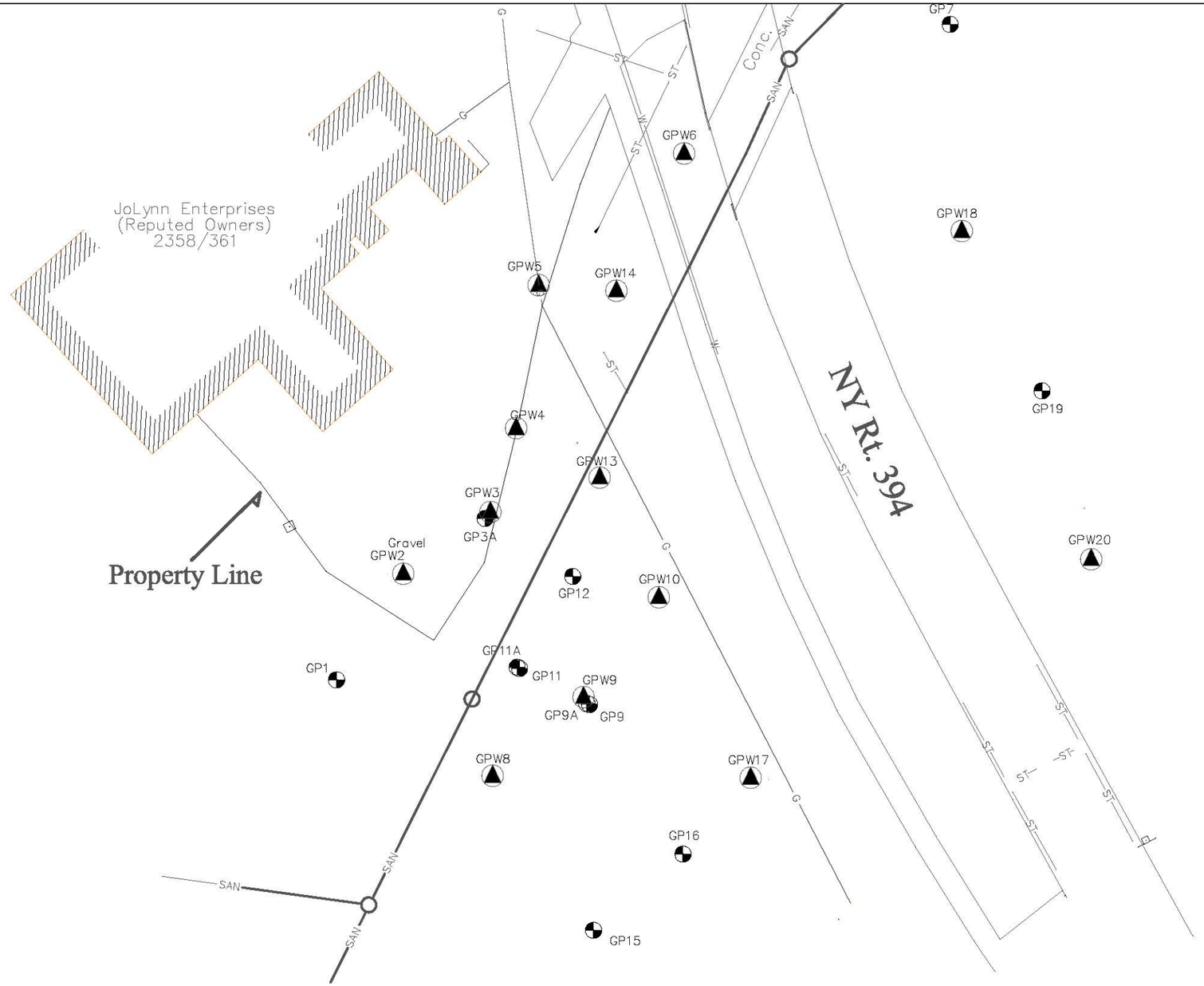
DATE	REVISION
Dec. 17, 2009	Added information from Foit-Albert plan
Dec. 8, 2009	Changed Bench Mark Information

Figure 1
Monitoring Well/ Boring Locations

OP - TECH Environmental Services, Inc.

Former Standard Portable Site
West Lake Road
Village of Mayville
County of Chautauqua
State of New York

November 17, 2009 1" = 60' KMR
November 20, 2009 1 of 1



Legend

- Geoprobe Micro-Well Monitoring Point
- Geoprobe Point
- SAN Sanitary Line
- G Gas Line
- ST Storm Sewer Line
- W Water Line

N

NYS Plane (NAD83) – West Zone

60 0 60 120 180

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Response ● Service ● Experience

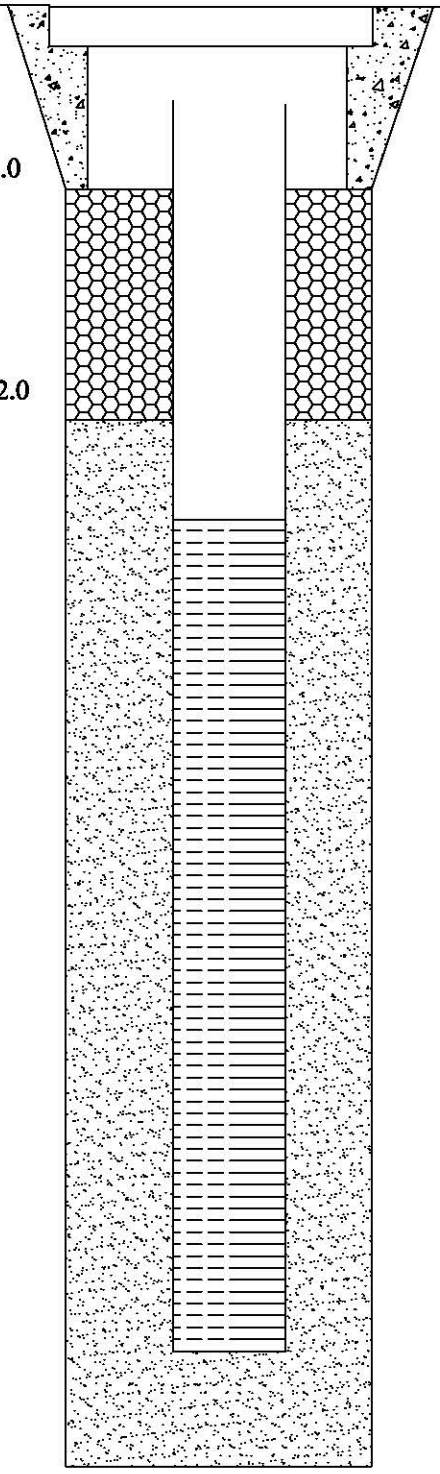
Site: **Fig. 2 Sampling Location Map**	Job no.: **FD900431**	Date: **03/16/2010**
Client: **NYSDEC Reg. 9**	Proj. Mgr.: **N. Wohlabaugh**	Revision no.: **O-1**

Micro-Monitoring Well

Depth to top of Concrete (ft.): 0

Depth to top of Bentonite (ft.): -1.0

Depth to top of Sand Pack (ft.): -2.0



Ground Surface Elevation (ft.) 1322.00
Flushmount Roadbox Elevation (ft.) 1322.05
Riser Elevation (ft) 1321.78
Northing (ft.) 817973.96
Easting (ft.) 900728.75

Protective Casing (Flushmount Roadbox)
Length (in.): 12
Diameter (in.): 8

Well Riser Material: Sch. 40 PVC
Diameter (in.): 1

Top of Well Screen (ft.): -2.9

Sand Pack Type: # 1 Sand

Well Screen Material: 0.010 Slot Sch. 40 PVC
Diameter (in.): 1

Borehole Diameter (in.): 3.25

Bottom of Well Screen (ft.): -12.9

Bottom of Well Sump (ft.): -13.0

Bottom of Borehole Elevation (ft.): -14.0

NOTE: All micro-monitoring wells had the same construction.

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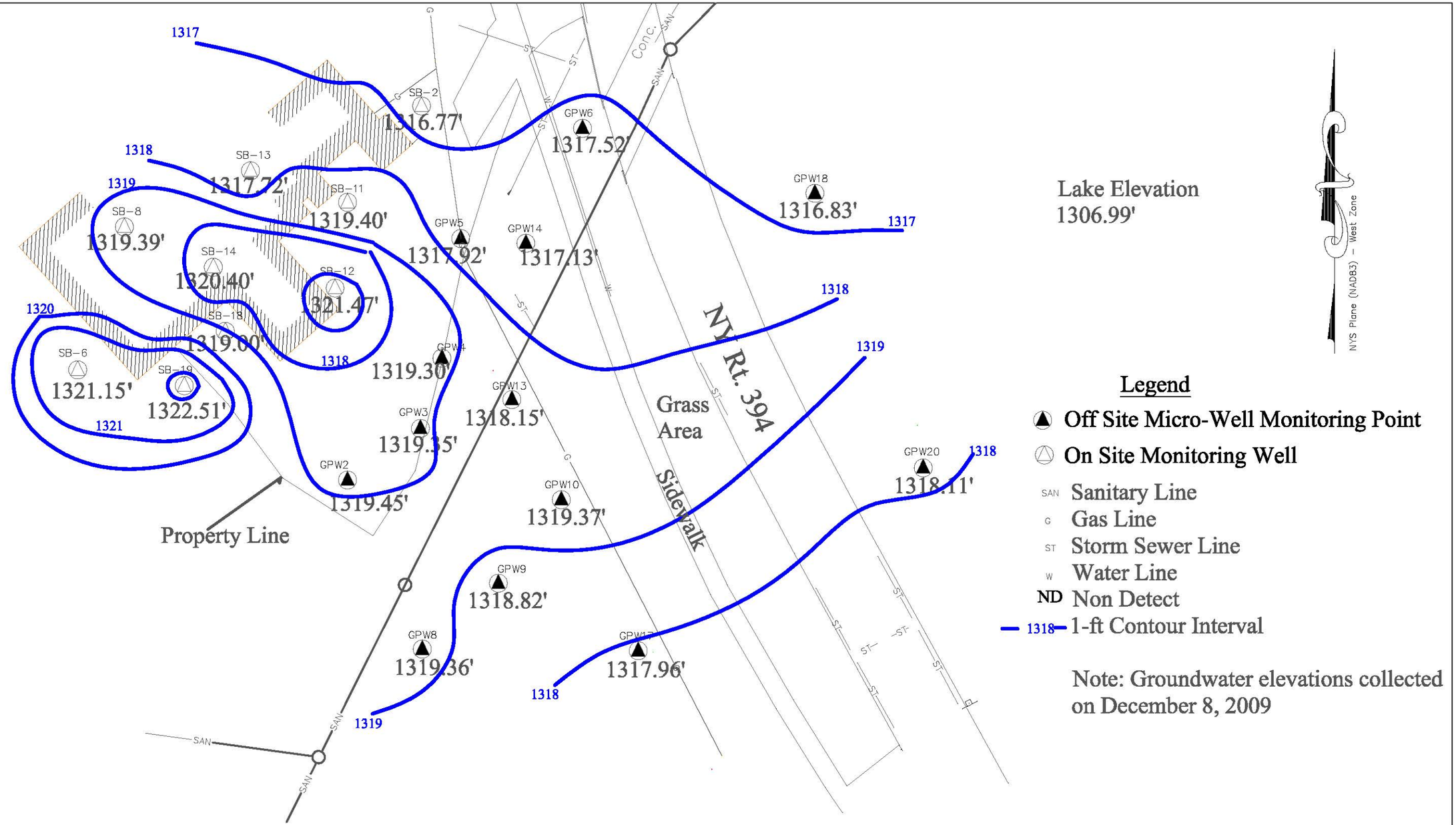
Response ● Service ● Experience

Figure 3: Well Construction Diagram	Job No.: FD900431	Micro-Monitoring Well
Client: NYSDEC Region 9	Project Manager: N. Wohlabaugh	Installation Date: November 12, 2009



Lake Elevation
1306.99'

NYS Plane (NAD83) - West Zone

Legend

- Off Site Micro-Well Monitoring Point
- On Site Monitoring Well
- SAN Sanitary Line
- G Gas Line
- ST Storm Sewer Line
- W Water Line
- ND Non Detect
- 1318 1-ft Contour Interval

Note: Groundwater elevations collected on December 8, 2009

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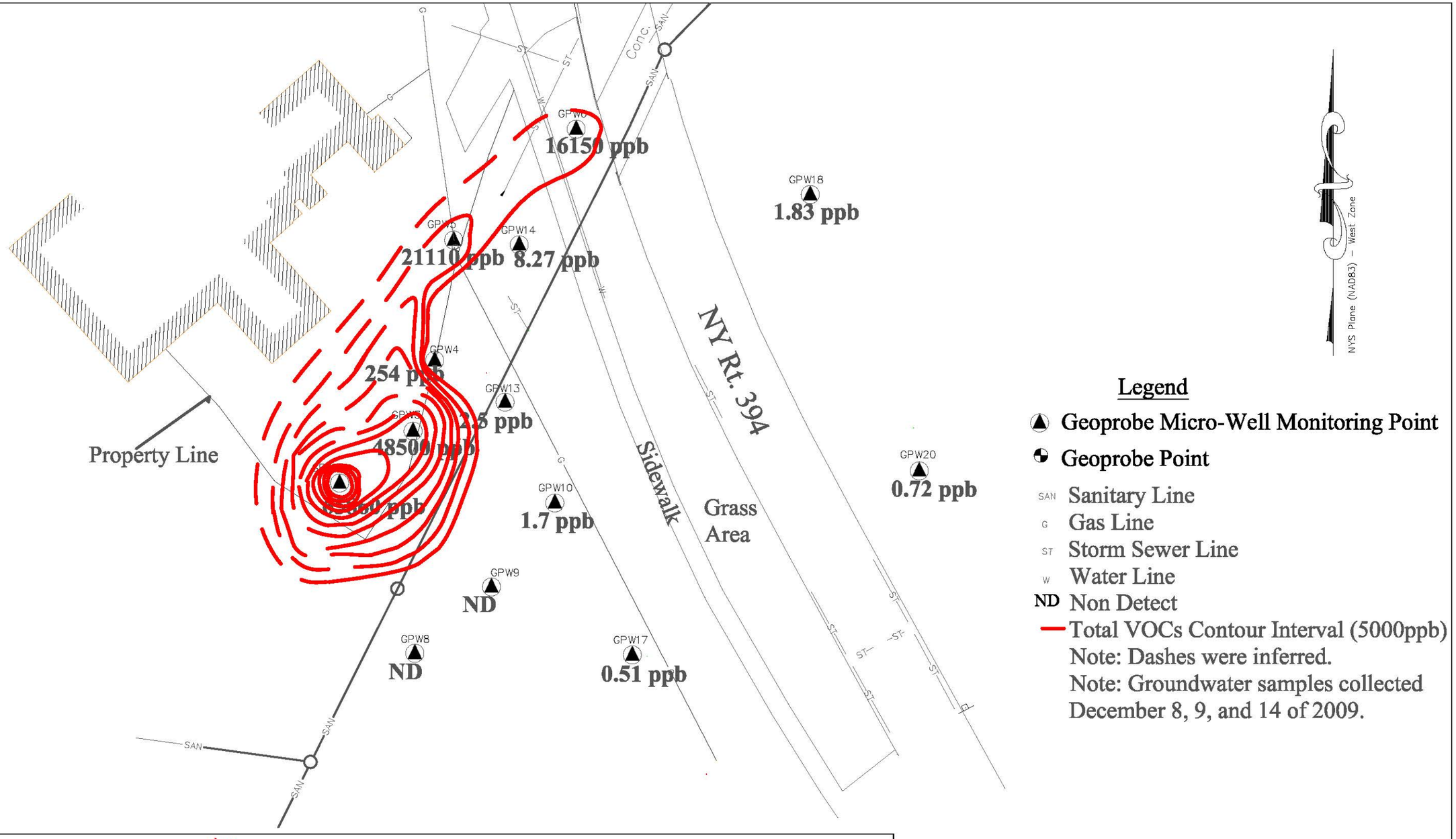
Site:	**Fig. 4 Groundwater Elevation Contours**	Job no.:	**FD900431**	Date:	**03/16/2010**
Client:	**NYSDEC Reg. 9**	Proj. Mgr.:	**N. Wohlabaugh**	Revision no.:	**O-1**

60 0 60 120 180



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Response ● Service ● Experience

Site: **Fig. 5 Off-Site VOCs Groundwater Concentrations**	Job no.: **FD900431**	Date: **03/16/2010**
Client: **NYSDEC Reg. 9**	Proj. Mgr.: **N. Wohlabaugh**	Revision no.: **O-1**

TABLES

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Table I: Field Identification Table
Standard Portable Off Site Subsurface Investigation

Sample Location ID	GP-1	GP-2	GP-3	GP-3A	GP-4	GP-5	GP-6	GP-7	GP-8	GP-9	GP-9A	GP-10	GP-11	GP-11A	GP-12	GP-13	GP-14	GP-15	GP-16	GP-17	GP-18	GP-19	GP-20
Well Installed	NO	√	√	NO	√	√	√	NO	√	√	NO	√	NO	NO	NO	√	√	NO	NO	√	√	NO	√
Well ID	NA	GPW-2	GPW-3	NA	GPW-4	GPW-5	GPW-6	NA	GPW-8	GPW-9	NA	GPW-10	NA	NA	NA	GPW-13	GPW-14	NA	NA	GPW-17	GPW-18	NA	GPW-20
Geoprobe Sampling Date	11/5/2009	11/5/2009	11/5/2009	NA	11/5/2009	11/5/2009	11/5/2009	11/9/2009	11/9/2009	11/9/2009	11/9/2009	11/9/2009	11/10/2009	11/10/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/13/2009	11/13/2009
Micro-Well installation Date	11/6/2009	11/6/2009	11/6/2009	NA	11/6/2009	11/6/2009	11/6/2009	NA	11/12/2009	11/12/2009	NA	11/12/2009	NA	NA	NA	11/12/2009	11/12/2009	NA	NA	11/12/2009	11/13/2009	NA	11/13/2009
Top of Well Screen	NA	2.9	2.9	NA	2.9	2.9	2.9	NA	2.9	2.9	NA	2.9	NA	NA	NA	2.9	2.9	NA	NA	2.9	2.9	NA	2.9
Bottom of Well Screen	NA	12.9	12.9	NA	12.9	12.9	12.9	NA	12.9	12.9	NA	12.9	NA	NA	NA	12.9	12.9	NA	NA	12.9	12.9	NA	12.9
Bottom of Well Sump	NA	13.0	13.0	NA	13.0	13.0	13.0	NA	13.0	13.0	NA	13.0	NA	NA	NA	13.0	13.0	NA	NA	13.0	13.0	NA	13.0
Bottom of Borehole	NA	14.0	14.0	NA	14.0	14.0	14.0	NA	14.0	14.0	NA	14.0	NA	NA	NA	14.0	14.0	NA	NA	14.0	14.0	NA	14.0
Highest Headspace Reading	6.9 ppm	112 ppm	257 ppm	_____	41 ppm	808 ppm	173 ppm	0.0 ppm	0.0 ppm	0.0 ppm	0.9 ppm	0.7 ppm	0.7 ppm	0.7 ppm	2.4 ppm	0.9 ppm	15.3 ppm	3.8 ppm	3.8 ppm	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm
Headspace Sample Interval	8 - 9 ft.	8 -9 ft.	10 - 11 ft.	_____	10 - 11 ft.	9 - 10 ft.	12 - 13 ft.	_____	_____	_____	1 - 2 ft.	10 - 11 ft.	11 - 12 ft.	10 - 11 ft.	8 - 9 ft.	10 11 ft.	12 - 13 ft.	16 - 17 ft	17 - 18 ft.	_____	_____	_____	_____
Samples Collected	8-10'	8-10'	10-12' (**)	2-4' (*)	10-12'	8-10'	12-14'	6-8'	8-10'	2-4' (*)	10-12' (*)	10-12' (*)	NC	12-14'	12-14'	8-10'	2-4' (*)	16-18'	NC	12-14'	10-12'	10-12'	NC
	NC	NC	NC	8-10'	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12-14'	NC	NC	NC	NC	NC	NC
	NC	NC	NC	12-14' (*)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

NOTES:
NO- No geoprobe micro-well was installed at that specific boring location
NA - Not Applicable
NC - Not Collected
(*) - Soil samples were analzed for EPA Methods 8260, 8270, 8081, 8082, 6010, and 9012.
√ - Micro-Well installed
(**) - Field Duplicate sample collected

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Table 2A: Soil Analytical Results - Volatile Organic Compounds
Standard Portable Off Site Subsurface Investigation

Analytes by EPA Method 8260	6 NYCRR PART 375 Soil Cleanup Objectives Restricted Comercial Use (ppm)	GP-1 (8-10')	GP-2 (8-10')	GP-3 (10-12')	GP-4 (10-12')	GP-5 (8-10')	GP-6 (12-14')	GP-7 (6-8')	GP-8 (8-10')	GP-9 (2-4')	GP-9A (10-12')	GP-10 (10-12')
		11052009 10:05	11052009 11:10	11052009 11:35	11052009 13:05	11052009 14:25	11052009 15:25	11092009 11:05	11092009 12:25	11092009 12:45	11092009 13:40	11092009 15:05
2-butanone	NL	ND	ND	ND	0.28	ND	ND	ND	ND	0.0083	ND	ND
1,1-dichloroethene	500	0.0022	0.0062	0.0045	ND	0.0063	0.0038	ND	ND	ND	ND	ND
Acetone	500	0.0099	0.0065	0.0091	0.0099	0.01	0.007	ND	ND	0.027	ND	ND
Carbon disulfide	NL	ND	0.0049	0.0023	ND	ND	0.002	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	500	0.0027	4.7	1.3	0.06	4.4	3.2	ND	ND	ND	ND	ND
cyclohexane	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	350	ND	0.0065	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	500	0.0051	0.0053	0.005	0.006	0.0054	0.0052	0.0049	0.0089	0.0073	0.0035	0.0019
Methylcyclohexane	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	150	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	ND	0.0025	0.0022	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	NL	ND	0.065	0.065	0.065	0.027	0.015	ND	ND	ND	ND	
Trichloroethene	200	0.15	~~490~~ 49	~~390~~ 39	1.6	~~200~~ 20	~~410~~ 41	ND	ND	ND	ND	ND
Vinyl chloride	13	ND	0.031	0.058	0.01	0.11	0.14	ND	ND	ND	ND	ND
Xylenes, total	500	ND	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Laboratory analysis performed by Test America in Buffalo, New York.
All measurements reported in PPM (mg/kg)
Recommended soil cleanup objectives for Volatile Organic Contaminants are from 6 NYCRR Part 375 - SCOs Restricted Comercial Use.
Bold print exceeds recommended soil cleanup objectives set forth by the NYSDEC in TAGM 4046
ND - Non Detect
NL - Soil Cleanup Objective (SCO) not listed for this particular analyte in 6 NYCRR PART 375 - Environmental Remediation Programs Sunpart 375-6.8.

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Table 2A: Soil Analytical Results - Volatile Organic Compounds
Standard Portable Off Site Subsurface Investigation

Analytes by EPA Method 8260	6 NYCRR PART 375 Soil Cleanup Objectives Restricted Comercial Use (ppm)	GP-11A (12-14')	GP-12 (12-14')	GP-13 (8-10')	GP-14 (2-4')	GP-14 (12-14')	GP-15 (16-18')	GP-17 (12-14')	GP-18 (10-12')	GP-19 (10-12')	GP-20 (8-10')	GP-3A (2-4')	GP-3A (8-10')	GP-3A (12-14')
		11112009 14:55	11112009 15:55	11112009 16:50	11122009 08:05	11122009 08:10	11122009 10:20	11122009 11:10	11122009 13:55	11122009 14:20	11132009 07:50	11132009 10:45	11132009 10:50	11132009 11:00
2-butanone	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	0.0079
Acetone	500	0.0078	0.01	0.019	ND	0.018	0.03	0.011	0.0089	0.013	0.019	0.021	0.02	0.0095
Carbon disulfide	NL	ND	ND	ND	0.0012	ND	ND	ND	ND	ND	ND	0.0018	0.0024	0.015
cis-1,2-Dichloroethene	500	ND	ND	ND	0.014	ND	ND	ND	ND	ND	ND	470	1.7	5.5
cyclohexane	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	ND	ND
Ethylbenzene	350	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	500	0.0038	0.0035	0.0079	0.0032	0.0074	0.0074	0.0033	0.0041	0.0054	0.0042	0.011	0.006	0.0054
Methylcyclohexane	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND
Tetrachloroethene	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0071	ND
Toluene	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35	0.0038	0.0088
trans-1,2-Dichloroethene	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	0.0085	0.021
Trichloroethene	200	ND	ND	ND	0.031	ND	ND	ND	ND	ND	ND	41	49	**220**
Vinyl chloride	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	0.085
Xylenes, total	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND

Notes:

Laboratory analysis performed by Test America in Buffalo, New York.

All measurements reported in PPM (mg/kg)

Recommended soil cleanup objectives for Volatile Organic Contaminants are from 6 NYCRR Part 375 - SCOs Restricted Comercial Use.

Bold print exceeds recommended soil cleanup objectives set forth by the NYSDEC in TAGM 4046

ND - Non Detect

NL - Soil Cleanup Objective (SCO) not listed for this particular analyte in 6 NYCRR PART 375 - Environmental Remediation Programs Sunpart 375-6.8.

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Table 2B: Soil Analytical Results: Semi-Volatile Organic Compounds
Standard Portable Off Site Subsurface Investigation

Analytes by EPA Method 8270	6 NYCRR PART 375 Soil Cleanup Objectives Restricted Comercial Use	GP-14 (2-4')	GP-3A (2-4')
		11122009 08:10	11132009 10:45
2-Methylnaphthalene	NL	0.094	0.17
Acenapthene	500	0.084	ND
Acenapthylene	500	0.15	ND
anthracene	500	0.22	0.12
benzo(a)anthracene	5.6	0.75	0.56
Benzo(a)pyrene	1	0.67	0.41
Benzo(b)flouranthene	5.6	1.3	0.68
Benzo(ghi)perylene	500	0.57	0.33
Benzo(k)flouranthene	56	ND	0.24
Chrysene	56	0.8	0.61
Dibenzofuran	NL	0.12	0.1
Fluoranthene	500	1.5	0.95
Fluorene	500	0.098	ND
Indeno(1,2,3-cd)pyrene	5.6	0.52	0.29
Naphthalene	500	0.11	0.1
Phenanthrene	500	0.84	0.49
Pyrene	500	1.3	0.85

NOTES:
Laboratory analysis performed by Test America in Buffalo, New York.
All measurements reported in PPM (mg/kg).
ND - Non Detect
NL - Soil Cleanup Objective (SCO) not listed for this particular analyte in 6 NYCRR PART 375

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Table 2C: Soil Analytical Results: Total Metals

Standard Portable Off Site Subsurface Investigation

Analytes by SW Method 846	Eastern USA Background (ppm)	6 NYCRR PART 375 Soil Cleanup Objectives Restricted Comercial Use (ppm)	GP-3A (2-4')	GP-3A (12-14')	GP-9 (2-4')	GP-9A (10-12')	GP-14 (2-4')	GP-20 (8-10')
			11132009 10:45	11132009 11:00	11092009 12:45	11092009 13:40	11122009 08:05	11132009 07:50
Aluminum	30,000	NL	8780	10000	6260	8840	5020	8820
Arsenic	3 - 12	16	9.2	12.4	10.7	11.5	9.2	6.3
Barium	15 - 600	400	119	61.6	35.3	43.7	46.4	41.1
Beryllium	0 - 1.75	590	0.777	0.472	0.29	0.432	0.368	0.409
Calcium	130 - 35,000	NL	32600	29100	1750	24700	48100	23400
Chromium	1.5 - 40	NL	10.7	14.3	8.34	12.6	6.37	12.6
Cobalt	2.5 - 60	NL	6.95	12.6	5.98	10.4	5.3	8.67
Copper	1 - 50	270	44.5	26.1	19.2	22.3	35.3	22.5
Iron	2,000 - 550,000	NL	26200	28400	15900	23800	18400	20500
Lead	***	1000	48	13.2	10.5	11.4	24.9	10.6
Magnesium	100 - 5,000	NL	9750	11400	2160	9430	14600	10900
Manganese	50 - 5,000	10000	708	492	236	395	931	326
Nickel	0.5 - 25	310	17.6	27.3	14.9	24	11.6	21.6
Potassium	8,500 - 43,000	NL	898	1720	562	1480	664	1360
Vanadium	1 - 3,000	NL	16.4	16.1	11.6	13.8	9.74	15.3
Zinc	9 - 50	10000	77.9	63.7	41.8	53.7	52.2	59.9
Mercury	0.001 - 0.2	2.8	0.0522	ND	ND	ND	0.0462	ND

NOTES:
Laboratory analysis performed by Test America of Buffalo, New York.
All measurements reported in PPM (mg/kg).
NL - Soil Cleanup Objective (SCO) not listed for this particular analyte in 6 NYCRR PART 375 - Environmental Remediation Programs Sunpart 375-6.8.
ND - Non Detect
*** - No reported background value estsablished for the eastern USA.

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Table 2D: Soil Analytical Results - Pesticides

Standard Portable Off Site Subsurface Investigation

Analytes by EPA Method 8081	6 NYCRR PART 375 Soil Cleanup Objectives Restricted Comercial Use (ppm)	GP-3A (2-4')	GP-3A (12-14')	GP-9 (2-4')	GP-9A (10-12')	GP-14 (2-4')	GP-20 (8-10')
		11132009 10:45	11132009 11:00	11092009 12:45	11092009 13:40	11122009 08:05	11132009 07:50
4,4'-DDT	47	0.0041	ND	ND	ND	ND	ND
delta-BHC	NL	0.0015	ND	ND	ND	ND	ND
Endosulfan II	200	0.00045	ND	ND	ND	ND	ND
Endrin	89	0.0043	ND	ND	ND	ND	ND

NOTES:
Laboratory analysis performed by Test America in Buffalo, New York.
All measurements reported in PPM (mg/kg).
Recommended soil cleanup objectives for Pesticide Contaminants are from 6 NYCRR Part 375 - SCOs Restricted Comercial Use.
ND - Non Detect
NL - Soil Cleanup Objective (SCO) not listed for this particular analyte in 6 NYCRR PART 375 - Environmental Remediation Programs Sunpart 375-6.8.

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Table 3A: Groundwater Analytical Results - Volatile Organic Compounds
Standard Portable Off Site Subsurface Investigation

Analyte by EPA Method 8260	Sample Location	GPW - 2	GPW - 2 RE1	GPW - 3	GPW - 3 RE1	FD - 120809	FD -120809 RE1	GPW - 4	GPW - 4 RE1	GPW - 5	GPW - 5 RE1	GPW - 6	GPW - 6 RE1
	Date	12/8/2009	12/8/2009	12/8/2009	12/8/2009	12/8/2009	12/8/2009	12/8/2009	12/8/2009	12/8/2009	12/8/2009	12/14/2009	12/14/2009
	Time	9:05	9:05	10:15	10:15	10:15	10:15	11:45	11:45	13:40	13:40	13:30	13:30
	TOGS Value (µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
1,1,2-Trichloroethane	1	ND	ND	**3**	ND	**2.6**	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	1.7	ND	0.71 J	ND	0.72 J	ND	ND	ND	**5.2**	ND	ND	ND
1,1-Dichloroethene	5	**25**	ND	**44**	ND	**43**	ND	ND	ND	**38**	ND	15	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	0.53 J	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	0.61 J	ND	0.73 J	ND	0.74 J	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	**5.7**	ND	**9.1**	ND	7.6	ND	ND	ND	3.9	ND	ND	ND
cis-1,2-Dichloroethene	5	**3700 E**	**26000**	**3100 E**	**13000**	**3100 E**	**13000**	**140 E**	**150**	**3200 E**	**15000**	**2900**	**7000**
Ethylbenzene	5	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	**12**	ND	**8.4**	ND	**8.5**	ND	ND	ND	ND	ND	ND	ND
Toulene	5	**7.4**	ND	3.2	ND	3.3	ND	ND	ND	ND	ND	1.2	ND
trans-1,2-Dichloroethene	5	**330 E**	**330**	**150 E**	ND	**140 E**	ND	3.4	3.3	**140 E**	**110**	**78**	ND
Trichloroethene	5	**5300 E**	**39000**	**5300 E**	**34000**	**5400 E**	**30000**	**100 E**	**99**	**2300 E**	**4100**	**3300**	**8800**
Vinyl Chloride	2	**450 E**	**530**	**1300 E**	**1500**	**1300 E**	**1500**	**4.5**	**5**	**1500 E**	**1900**	**460**	**350**
Xylenes, total	5	**8.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	NA	**9843.01**	**65860**	**9919.14**	**48500**	**10006.46**	**44500**	**247.9**	**257.3**	**7187.63**	**21110**	**6754.2**	**16150**

Notes:
Laboratory analysis performed by Test America in Buffalo, New York.
All measurements in PPB (µg/l)
Groundwater guidance values are from Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1)
BOLD types exceeds NYSDEC TOGS 1.1.1 Guidance Values.
RE1 - Dilution required due to high concentration of target analyte(s).
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
E - Concentration exceeds the calibration range and therefore result is semi-quantitative.
ND - Non Detect
NA - Not Applicable
FD-120809 - Field Duplicate collected at GPW-3

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Table 3A: Groundwater Analytical Results - Volatile Organic Compounds
Standard Portable Off Site Investigation

Analyte by EPA Method 8260	Sample Location	GPW - 8	GPW - 9	GPW- 10	GPW - 13	GPW - 14	GPW - 17	GPW - 18	GPW - 20
	Date	12/9/2009	12/9/2009	12/9/2009	12/14/2009	12/8/2009	12/9/2009	12/9/2009	12/9/2009
	Time	14:35	13:35	12:30	14:30	14:40	11:45	8:30	9:00
	TOGS Value (µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	4.1	ND	ND	ND	ND	ND	15	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	1.2	**5.9**	ND	0.85	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NA	ND	ND	0.56 J	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
Toulene	5	ND	ND	0.54 J	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	0.51 J	ND	ND
Trichloroethene	5	ND	ND	0.6 J	1.3	0.57	ND	0.98	0.72
Vinyl Chloride	2	ND	ND	ND	ND	1.8	ND	ND	ND
Xylenes, total	5	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	NA	**4.1**	**ND**	**1.7**	**2.5**	**8.27**	**0.51**	**16.83**	**0.72**

Notes:
Laboratory analysis performed by Test America in Buffalo, New York.
All measurements in PPB (µg/l)
Groundwater guidance values are from Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1)
BOLD type exceeds NYSDEC TOGS 1.1.1 Guidance Values.
RE1 - Dilution required due to high concentration of target analyte(s).
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
E - Concentration exceeds the calibration range and therefore result is semi-quantitative.
ND - Non Detect
NA - Not Applicable
FD-120809 - Field Duplicate collected at GPW-3

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Table 3B: Groundwater Analytical Results
SVOCs, PCBs, Pesticides, Total and Dissolved Metals, and CN
Standard Portable Off Site Subsurface Investigation

Analytes by EPA Method 8270	No semivolatile analytes were detected for GPW - 4	No semivolatile analytes were detected for GPW - 17

Analytes by EPA Method 8082	No Polychlorinated Biphenyls were detected for GPW - 4	No Polychlorinated Biphenyls were detected for GPW - 17

Analytes by EPA Method 8081A	GPW - 4 12/8/09 11:45	GPW - 17 12/9/09 11:45
*gamma-Chlorodane [2C]**	0.012 J	ND

Analytes by SW 846 Series Method	TOGS Guidance Values (µg/l)	GPW-4 12/8/2009 11:45		GPW-17 12/9/2009 11:45	
		Total Metals (µg/l)	Dissolved Metals (µg/l)	Total Metals (µg/l)	Dissolved Metals (µg/l)
Aluminum	100	**3,070**	ND	**12,900**	ND
Antimony	3	ND	ND	ND	ND
Arsenic	25	ND	ND	15.8	16.4
Barium	1,000	88.7	68.2	365	120
Beryllium	3	ND	ND	ND	ND
Cadium	5	ND	ND	ND	ND
Calcium	NA	151,000	143,000	543,000	214,000
Chromium	50	4.5	ND	14.8	ND
Cobalt	5	ND	ND	**15.7**	ND
Copper	200	ND	ND	21.1	ND
Iron	300	**5,550**	ND	**18,300**	ND
Lead	25	ND	ND	12.3	ND
Magnesium	35,000	12,900	11,200	**91,500**	**75,200**
Maganese	300	**852**	**727**	**2,110**	**310**
Nickle	100	ND	ND	36.4	ND
Potassium	NA	2,950	1,760	7,440	1,610
Selenium	10	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND
Sodium	20,000	15,800	16,300	**44,300**	**39,500**
Thallium	0.5	ND	ND	ND	ND
Vanadium	14	5.8	ND	**21.8**	ND
Zinc	2,000	27.6	ND	48.4	ND
Mercury	0.7	ND	ND	ND	ND

Cyanide	200	ND	ND

Notes:
Total and Dissolved Metal analysis by SW 843 Series Method. Cyanide analysis done by general chemistry parameters.
Dissolved Metals filtered by the analytical laboratory.
Bold type exceeds NYSDEC TOGS Guidance Values
ND - Non Detect
* - A NYSDEC TOGS Guidance Value is not established for this analyte

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Table 4: Groundwater Elevation - December 7, 2010
Standard Portable Off Site Subsurface Investigation

Location	Reference Elevation (ft)	Static Water Level (ft)	Time	Elevation (ft)
GPW-2	1321.78	2.33	14:12	1319.45
GPW-3	1320.93	2.33	14:15	1318.6
GPW-4	1320.81	1.51	14:16	1319.3
GPW-5	1320.85	2.93	14:19	1317.92
GPW-6	1321.78	4.26	13:35	1317.52
GPW-8	1321.18	1.82	14:00	1319.36
GPW-9	1320.4	1.58	14:04	1318.82
GPW-10	1319.67	0.3	14:08	1319.37
GPW-13	1320.06	1.91	13:51	1318.15
GPW-14	1320.12	2.99	13:49	1317.13
GPW-17	1319.34	1.38	13:24	1317.96
GPW-18	1318.68	1.85	13:31	1316.83
GPW-20	1318.41	0.3	13:27	1318.11
SB-2	1320.84	4.07	14:39	1316.77
SB-6	1324.49	3.34	14:58	1321.15
SB-8	1321.51	2.12	15:35	1319.39
SB-11	1321.22	1.82	14:44	1319.4
SB-12	1322.8	1.33	14:49	1321.47
SB-13	1320.43	2.71	15:37	1317.72
SB-14	1322.92	2.52	15:40	1320.4
SB-18	1320.84	1.84	14:51	1319
SB-19	1324.49	1.98	15:07	1322.51
Lake	1309.6	2.61	14:25	1306.99

NOTE:
1.) All groundwater measurements collect on the 7th of December 2010.
2.) Reference elevations provided for geoprobe wells by Rodgers Surveying of Jamestown, NY
3.) Soil boring well referenced elevations for on-site well determined by aboslute values from hisorical reports and survey point elevation provided by Rodgers.
4.0 All measurements taken from the top of well riser on the north side.

APPENDIX A

TEST BORING LOGS

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11042009
End Date: 11042009
Boring No. SBB-2

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: | Elev.:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, **ORGANIC SOIL** with fine gravel, moist, trace roots.	OL/OH	
1	G1	1			
		1	Brown, small **GRAVEL**, some coarse sand, moist.	GP	3.8 / 2.9
2	(46 / 60)	2			
		2			
3			Gray-brown, **SILT** with clay, moist, mottled.	ML	
					6.7 / 2.2
4					
5					
5					4.0 / 2.2
6	G2	6			
		6			
7	(34 / 60)		Gray, **CLAY**, wet.	CL	
					5.3 / 2.2
8					
9					6.5 / 2.2
10					
10					
11	G3				6.1 / 2.0
12	(40 / 60)		Gray, **CLAY**, wet.	CL	
13					5.9 / 2.4
14					
15					5.6 / 2.0
15					
16					
	G4		Gray, **CLAY**, wet.	CL	
17					4.3 / 2.3
	(26 / 60)		NOTE: Sample recovery was possible borehole slough.		
18					
19					4.0 / 2.5
20					
20					
21					5.1 / 2.6
	G5		Gray, **CLAY**, trace silt, wet, seams of fine sand.	CL	
22					
	(55 / 60)				
23					

Depth to Water (ft) Date & Time

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. SBB-2

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11042009
End Date: 11042009
Boring No. SBB-2

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: | Elev.:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
24			Gray, **CLAY**, trace silt, wet, seams of fine sand.	**CL**	6.4 / 2.2
25		**25**			
25		**25**	Brown, fine to medium **SAND**, wet.	**SP**	
26	G6				6.4 / 2.2
27	(28 / 60)		Brown, coarse **SAND**, trace silt, wet.	**SP**	
28					4.2 / 2.7
			Brown, fine to medium **SAND**, wet.	**SP**	
29					
30					4.9 / 2.2
			Bottom of Exploration 30.0 ft.		

Depth to Water (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. SBB-2

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11042009
End Date: 11042009
Boring No. SBB-1

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: | Elev.:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, **ORGANIC SOIL** with small gravel, moist, trace roots.	OL/OH	
1	G1				
		1.5			11 / 10.4
2	(44 / 60)	1.5			
			Brown, medium to coarse **SAND** with small gravel, some particles and		
3			fragments of brick and wood, creosote odor.		
					5.9 / 3.3
4					
5					
5			Black, particles and fragments of cinder and ash, moist, creosote.		8.30/.8.1
6	G2	6			
		6	Brown, **SILT** with coarse gravel, wet, organic odor.	ML	
7	(38 / 60)	7			
		7			9.3 / 7.6
8					
			Yellow brown/gray, fine to medium **SAND**, trace large gravel, wet, no odor.	SW	
9					11 / 9.3
10					
10					
11	G3				11.9 / 9
12	(42 / 60)	12			
		12	Gray, fine **SAND**, little silt, wet.	SM	
13		13			10.8 / 7
		13			
14					
			Gray, **CLAY** with silt, wet, alternating laminae.	CL	
15					10.1 / 7
15					
16					
	G4				
17			Gray, **CLAY** with silt, wet, alternating laminae.	CL	10 / 9.9
	(48 / 60)				
18					
19					8.3 / 7.6
20					
20					
21					9 / 7.9
	G5		Gray, **CLAY** with silt, wet.	CL	
22					
	(37 / 60)				
23					

Depth to Water (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. SBB-1

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11042009
End Date: 11042009

Boring No. SBB-1

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l

Client: NYSDEC | Project Manager: T. Bown | Northing: | Dat.: NAVD88

Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: | Elev.:

Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25

Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
24			Gray, **CLAY**, trace silt, wet.	**CL**	8.3 / 7.6
25		**25**			
25		**25**			
26	G6		Gray, medium to coarse **SAND**, little fine gravel, wet.	**SP**	9 / 7.9
27	(60 / 60)	**27**			
		27			
28					8.7 / 8
			Gray, **CLAY** with silt, wet.	**CL**	
29					
30					11.1 / 9.6
			Bottom of Exploration 30.0 ft.		

Depth to Water (ft) Date & Time

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. SBB-1

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11132009
End Date: 11132009
Boring No. GP-20

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 818001.89 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 901023.57 | Elev.: 1318.8
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0		0.4	Dark brown, **ORGANIC SOIL**, moist, roots.	OL/OH	
1	G1	0.4			
			Brown, medium to fine **SAND** with large gravel, dry.	SW	0.0 / 0.0
2	(50 / 60)	2			
		2 2.6	Black, coarse to medium **SAND**, moist.	SP	
3		2.6 3	Gray-brown, **ORGANIC SOIL**, moist, roots.	OL/OH	
		3			0.0 / 0.0
4			Gray-brown, **SILT** with medium sand, some small gravel, moist.	ML	
5					
5					0.0 / 0.0
6	G2		Gray-brown, **SILT** with very fine sand, wet, mottled. Some seams of	ML	
			orange-brown, medium to fine, silty sand.		
7	(39 / 60)				
					0.0 / 0.0
8					
9					0.0 / 0.0
10		10			
10		10			
11	G3				0.0 / 0.0
			Gray-brown, **CLAY** with silt, wet, laminated.	CL	
12	(28 / 60)				
13					0.0 / 0.0
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water (ft) Date & Time

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-20

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11113009
End Date: 11113009
Boring No. GP-19

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 818051.6 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 901005.7 | Elev.: 1318.4
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0		0.6	Dark brown, **ORGANIC SOIL**, wet, roots.	OL/OH	
1	G1	0.6			
			Brown, small **GRAVEL** with medium to fine sand, dry.	GP	0.0 / 0.0
2	(53 / 60)				
		2.7			
3		2.7	Dark brown, **ORGANIC SOIL**, moist, trace roots, sulphur odor.	OL/OH	
		3.5			0.0 / 0.0
4		3.5			
			Dark brown, medium **SAND**, trace silt, wet.	SP	
5					
5		5.4			0.0 / 0.0
6	G2	5.4			
			Orange-brown,/gray-brown, **SILT** with very fine sand, wet, mottled.	ML	
7	(46 / 60)				
					0.0 / 0.0
8					
			Gray, **SILT**, some very fine sand, wet.	ML	
9					0.0 / 0.0
10					
10			Gray-brown/light brown, **SILT**, some very fine sand, wet.	ML	
11	G3	11			0.0 / 0.0
		11	Dark brown, coarse to medium **SAND**, wet.	SP	
12	(42 / 60)	12			
		12			
13					0.0 / 0.0
			Gray, **CLAY**, some silt, wet, laminated	CL	
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water (ft) Date & Time

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-19

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11112009
End Date: 11112009
Boring No. GP-18

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 817134.14 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900970.85 | Elev.: 1319.0
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0		0.5	Brown, **ORGANIC SOIL** with small gravel, moist, roots.	OL/OH	
1	G1	0.5			
			Gray/black, large **GRAVEL** with silt, dry, sulphur odor, roots present.	GP-GM	0.0 / 0.0
2	(52 / 60)	2			
		2	Orange-brown/gray, **SAND** with silt, moist to wet.	SM	
3					
		3.6			0.0 / 0.0
4		3.6			
			Brown/gray, **SILT**, some fine sand, wet.	ML	
5					
5					0.0 / 0.0
6	G2				
		6.7			
7	(55 / 60)	6.7	Orange-brown, medium to fine **SAND** with silt, moist.	SM	
		7.4			0.0 / 0.0
8		7.4	Brown/gray, **SILT** with fine sand, moist, mottled. Few seams of medium to	ML	
			fine sand.		
9					0.0 / 0.0
10					
10			Gray-brown, **SILT** with very fine sand, wet.	ML	
11	G3				0.0 / 0.0
12	(29 / 60)	12			
		12			
13					0.0 / 0.0
			Gray, **CLAY**, little silt, wet.	CL	
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-18

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11112009
End Date: 11112009
Boring No. GP-17

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 817887.13 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900889.88 | Elev.: 1319.4
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0		0.5	Brown, **ORGANIC SOIL** with small gravel, moist, roots.	OL/OH	
1	G1	0.5			
			Gray/black, large **GRAVEL** with silt, dry, sulphur odor, roots present.	GP-GM	0.0 / 0.0
2	(57 / 60)	2			
		2	Orange-brown/gray, **SAND** with silt, moist to wet.	SM	
3					
		3.6			0.0 / 0.0
4		3.6			
			Brown/gray, **SILT**, some fine sand, wet.	ML	
5					
5					0.0 / 0.0
6	G2				
			Brown/gray, **SILT** with very fine sand, moist to wet, mottled.	ML	
7	(30 / 60)				
					0.0 / 0.0
8					
			Gray, **SILT**, some very fine sand, wet.	ML	
9					0.0 / 0.0
10					
10					
11	G3				0.0 / 0.0
			Gray, **SILT** with very fine sand, trace clay, wet, few laminations.	ML	
12	(38 / 60)				
13					0.0 / 0.0
14					
15					0.0 / 0.0
15			Gray, **SILT** with very fine sand, wet. Few seams of medium to fine sand.	ML	
16					
	G4				
17		17			0.0 / 0.0
	(39 / 60)	17			
18					
			Gray, **CLAY**, little silt, wet.	CL	
19					
20					
			Bottom of Exploration 20.0 ft.		

Depth to Water (ft) Date & Time

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-17

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11112009
End Date: 11112009
Boring No. GP-16

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 817855.7 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900853.7 | Elev.: 1320.7
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0		0.5	Brown, **ORGANIC SOIL**, moist, roots.	OL/OH	
1	G1	0.5			
			Brown, large and small **GRAVEL**, some medium to fine sand, trace silt, dry.	GW	0.0 / 0.0
2	(46 / 60)	2			
		2 2.4	Dark brown, **ORGANIC SOIL**, moist.	OL/OH	
3		2.4 3	Brown, large **GRAVEL** with medium to fine sand, moist.	GP	
		3	Brown/gray, **SILT** with very fine sand, moist, mottled.	ML	0.0 / 0.0
4					
5					
5					0.0 / 0.0
6	G2				
			Brown/gray, **SILT** with very fine sand, moist to wet, mottled.	ML	
7	(50 / 60)				
					0.0 / 0.0
8					
			Gray, **SILT**, some very fine sand, wet.	ML	
9					0.0 / 0.0
10					
10					
11	G3				0.0 / 0.0
			Gray, **SILT**, some very fine sand, wet.	ML	
12	(22 / 60)				
13					3.6 / 0.0
14					
15					3.8 / 2.6
15			Gray, **SILT**, some very fine sand, wet. Few seams of medium to fine sand.	ML	
16					
	G4				
17					3.8 / 0.0
	(34 / 60)	17.6			
18		17.6			
			Gray, **CLAY**, little silt, wet.	CL	
19					
20					
			Bottom of Exploration 20.0 ft.		

Depth to Water (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-16

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11112009
End Date: 11112009
Boring No. GP-15

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 817823.4 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900815.8 | Elev.: 1321.3
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, large and small **GRAVEL**, some medium to fine sand, dry.	**GW**	
1	G1				
		1.5			0.0 / 0.0
2	(51 / 60)	**1.5**			
			Dark brown, **ORGANIC SOIL**, trace small gravel, moist, wood (rail road tie)	**OL/OH**	
3			fragments, creosote odor.		
		3.5			0.0 / 0.0
4		**3.5**			
			Light brown/gray, fine **SAND** woth silt, moist.	**SM**	
5		**5**			
5		**5**			0.0 / 0.0
6	G2				
			Light brown/gray, **SILT** with very fine sand, moist to wet, mottled.	**ML**	
7	(55 / 60)				
					0.0 / 0.0
8					
			Gray, **SILT** with very fine sand, wet.	**ML**	
9					0.0 / 0.0
10					
10					
11	G3				0.0 / 0.0
			Gray, **SILT** with very fine sand, wet.	**ML**	
12	(38 / 60)				
13					3.6 / 0.0
14					
15		**15**			3.8 / 2.6
15		**15**			
16					
	G4		Gray, **CLAY**, little silt, wet, laminated.	**CL**	
17					3.8 / 0.0
	(35 / 60)				
18					
19					
20					
			Bottom of Exploration 20.0 ft.		

Depth to Water (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-15

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11112009
End Date: 11112009
Boring No. GP-14

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 818108.00 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900831.33 | Elev.: 1320.4
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, **ORGANIC SOIL**, moist, roots.	**OL/OH**	
1	G1	**0.8**			
		0.8 1.6	Brown, coarse to medium **SAND**, some small gravel, dry.	**SW**	0.0 / 0.0
2	(60 / 60)	**1.6**			
			Black, coarse **SAND**, some large and small gravel, dry to wet.	**SP**	
3					
					9.5 / 2.0
4		**3.9**			
		3.9 4.3	Brown, medium **SAND** with silt, moist.	**SM**	
5		**4.3**	Gray-brown/orange-brown, SILT, some very fine sand, moist, mottled	**ML**	
5					5.8 / 3.3
6	G2		Gray-brown/orange-brown, **SILT**, some very fine sand, moist, mottled	**ML**	
7	(41 / 60)				
					8.6 / 2.0
8					
9			Gray, **SILT**, some very fine sand, wet.	**ML**	10.2 / 4.6
10					
10					
11	G3		Gray, **SILT**, some very fine sand, wet.	**ML**	11.6 / 3
12	(35 / 60)				
		12.5			
13		**12.5**	Gray, **CLAY**, trace silt, wet, laminated.	**CL**	15.3 / 7.8
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water (ft) Date & Time

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-14

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11112009
End Date: 11112009
Boring No. GP-13

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 818014.60 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900818.48 | Elev.: 1320.2
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, **ORGANIC SOIL**, little small gravel, moist, roots present.	**OL/OH**	
1	G1				
		1.3			0.0 / 0.0
2	(50 / 60)	**1.3 2**	Black, medium to coarse **SAND**, little small gravel, wet.	**SW**	
		2 2.6	Dark brown,/gray, **ORGANIC SOIL**, moist, roots	**OL/OH**	
3		**2.6**			
					0.0 / 0.0
4					
			Light gray, fine **SAND** with silt, moist.	**SM**	
5		**5**			
5		**5**			0.0 / 0.0
6	G2		Gray-brown/orange-brown, **SILT**, some very fine sand, trace small gravel,	**ML**	
			wet, mottled.		
7	(47 / 60)				
					0.0 / 0.0
8					
9			Gray, **SILT**, some very fine sand, wet.	**ML**	0.0 / 0.0
10					
10					
11	G3				0.9 / 0.0
		11.5			
12	(42 / 60)	**11.5**			
13			Gray, **CLAY**, trace silt, wet, laminated.	**CL**	0.7 / 0.0
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water (ft) Date & Time

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-13

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11112009
End Date: 11112009
Boring No. GP-12

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 817973.1 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900807.0 | Elev.: 1320.5
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, large **GRAVEL**, some coarse to medium sand, dry, roots present.	OL/OH	
1	G1				
		1.5			1.7 / 1.2
2	(54 / 60)	1.5	Black, medium to coarse **SAND**, little silt, wet, roots.	SW	
		2.6			
3		2.6 3.1	Dark brown, **ORGANIC SOIL**, moist.	OL/OH	
		3.1	Gray-brown, medium to fine **SAND**, little silt, moist.	SP	1.9 / 1.7
4		4			
		4	Orange-brown/gray-brown, **SILT**, some very fine sand, moist, mottled.	ML	
5					
5					1.9 / 2.0
6	G2		Gray-brown/orange-brown, **SILT** with very fine sand, wet, mottled.	ML	
7	(55 / 60)				
					1.7 / 1.9
8					
9			Gray, **SILT**, some very fine sand, wet, homogenous.	ML	2.4 / 2.0
10					
10			Gray, **SILT**, little very fine sand, trace clay, wet.	ML	
11	G3				2.2 / 1.9
		11.8			
12	(38 / 60)	11.8			
13			Gray, **CLAY**, trace silt, wet.	CL	1.8 / 1.4
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-12

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11102009
End Date: 11102009
Boring No. GP-11A

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 817934.7 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900783.4 | Elev.: 1321.1
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, sandy **ORGANIC SOIL**, little small gravel, rounded, ,moist to dry,	OL/OH	
1	G1		roots present.		
					0.0 / 0.0
2	(53 / 60)	2.3			
		2.3	Gray-brown/black, silty **SAND**, some small gravel, coal and cinder particles	SM	
3			and fragments, moist.		
		3.4			0.0 / 0.0
4		3.4 3.8	Gray-brown, medium to fine **SAND**, moist.	SP	
		3.8	Orange-brown/gray-brown, **SILT**, some very fine sand, moist, mottled.	ML	
5					
5					0.0 / 0.0
6	G2				
			Gray-brown/orange-brown, **SILT**, some very fine sand, wet, mottled, oxidized.	ML	
7	(48 / 60)				
					0.6 / 0.0
8					
9			Gray, **SILT** with very fine sand, wet.	ML	0.6 / 0.0
10					
10			Gray, **SILT** with very fine sand, wet, mottled.	ML	
11	G3				0.7 / 0.0
12	(46 / 60)				
		11.7			
13		11.7			0.2 / 0.0
14			Gray, **CLAY** with silt, wet, laminated.	CL	
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water (ft) Date & Time

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-11A

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11102009
End Date: 11102009
Boring No. GP-11

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 817934.2 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900784.5 | Elev.: 1321.1
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, fine to coarse **SAND**, little fine gravel, dry.	SP	
1	G1	1			
		1	Gray-brown, fine to medium **SAND** with silt, dry.	SM	0.0 / 0.0
2	(60 / 60)	2			
		2	Black/dark brown, medium to coarse **SAND**, small to large gravel, particles	SW	
3			and fragments of ash and cinder, dry to wet.		
		3.5			0.0 / 0.0
4		3.5 4	Dark brown, **ORGANIC SOIL**, moist, roots present.	OL/OH	
		4	Gray-brown, fine to medium SAND with silt, little clay, moist, trace roots.	SM	
5		5			
5		5			0.0 / 0.0
6	G2				
			Gray-brown/orange-brown, **SILT**, some very fine sand, trace coarse sand	ML	
7	(46 / 60)		and small gravel, wet, mottled, trace roots, oxidized.		
					0.6 / 0.0
8					
9			Gray, **SILT** with very fine sand, wet.	ML	0.6 / 0.0
10					
10			Gray-brown, **SILT** with very fine sand, wet, oxidized.	ML	
11	G3				0.7 / 0.0
12	(46 / 60)				
			Gray, **SILT**, little fine sand, trace clay, laminated.	ML	
13					0.2 / 0.0
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-11

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11092009
End Date: 11092009
Boring No. GP-10

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 817963.48 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900844.41 | Elev.: 1319.9
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0		0.5	Brown, **ORGANIC SOIL** with gravel, moist.	OL/OH	
1	G1	0.5	Brown, **SILT**, particles and fragments of wood and cinders.		
					0.0 / 0.0
2	(54 / 60)	1.5			
		1.5 2.5	Orange-brown, fine to medium **SAND** with silt, moist.	SM	
3		2.5			
			Gray-brown/orange-brown, **SILT** with fine to medium sand, moist, mottled,	ML	0.0 / 0.0
4			few thin seams of silty sand.		
5					
5			Gray-brown/orange -brown, **SILT,** some clay, little very fine sand, mottled,	ML	0.0 / 0.0
6	G2		moist to wet.		
7	(58 / 60)		Gray-brown/light brown, **SILT** with very fine sand, trace small gravel, wet,	ML	
			oxidized with streaks.		0.6 / 0.0
8					
9					0.6 / 0.0
			Gray, **SILT** with very fine sand, wet.	ML	
10					
10					
11	G3		Gray, **SILT** with very fine sand, wet.	ML	0.7 / 0.0
12	(42 / 60)				
13		13			0.2 / 0.0
		13			
14			Gray, **CLAY** with silt, trace fine sand laminae.	CL	
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-10

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11092009
End Date: 11092009
Boring No. GP-9A

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 817919.3 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900813.0 | Elev.: 1320.6
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0		0.5	Brown, **ORGANIC SOIL** with sand, wet, roots present.	OL/OH	
1	G1	0.5			
			Gray-brown, large **GRAVEL**, little medium to coarse sand, dry.	GW	0.9 / 0.0
2	(52 / 60)				
3		3			
		3 3.5	Dark brown, **ORGANIC SOIL**, organic odor, dry, mottled, roots present.	OL/OH	0.0 / 0.0
4		3.5			
			Gray-brown, fine **SAND** with silt, moist, mottled.	SM	
5					
5					0.0 / 0.0
6	G2		Light brown/orange-brown, fine **SAND** with silt, moist to wet, alternating by	SM	
			color and composition, mottling, some seams of fine to medium sand.		
7	(42 / 60)				
					0.0 / 0.0
8					
9					0.0 / 0.0
10		10			
10		10			
11	G3				0.0 / 0.0
			Gray, **CLAY** with silt, wet, laminated.	CL	
12	(33 / 60)				
13					0.0 / 0.0
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-9A

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11092009
End Date: 11092009
Boring No. GP-9

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: 817922.06 | Dat.: NAVD88
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting: 900811.57 | Elev.: 1320.60
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0					
1	G1				
			Brown, small to large **GRAVEL** with medium to coarse sand, dry, roots present.	**GW**	0.2 / 0.0
2	(60 / 60)				
		2.5			
3		**2.5 3**	Dark brown, **ORGANIC SOIL**, organic odor, dry, mottled, roots present.	**OL/OH**	
		3 3.5	Gray, medium **SAND**, moist, mottled	**SP**	0.0 / 0.0
4		**3.5**	Orange-brown, fine **SAND** with silt, moist, mottled.	**SM**	
5					
5					0.0 / 0.0
6	G2				
		6.5			
7	(32 / 60)	**6.5**			
			Gray, **SILT** with very fine sand, moist to wet, seams of orange-brown, very fine	**ML**	0.0 / 0.0
8			to fine sand.		
9					0.0 / 0.0
10					
10					
11	G3				0.0 / 0.0
			Gray, **SILT** with fine sand, some clay, wet.	**ML**	
12	(12 / 60)				
			NOTE: Sample volume was disturbed and incomplete upon extraction.		
13					
14					
15					
			Bottom of Exploration 15.0 ft.		
			Borehole collapsed at 5.0ft upon completion		

Depth to Water (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-9

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11092009
End Date: 11092009
Boring No. GP-8

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, Overcast, slight breeze.l
Client: NYSDEC | Project Manager: T. Bown | Northing: | Datum:
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Light brown, **ORGANIC SOIL** with medium to fine sand, some small gravel,	OL/OH	
1	G1	1	dry, roots present.		
		1 1.5	Dark brown, **ORGANIC SOIL**, trace wood fragments, moist.	OL/OH	0.0 / 0.0
2	(54 / 60)	1.5			
		2.5	Gray, **SILT**, little fine sand, moist.	ML	
3		2.5	Black, coarse to medium **SAND**, little small gravel, moist.	SW	
		3.5			0.0 / 0.0
4		3.5 4	Gray, coarse to fine **SAND**, some silt, moist.	SM	
		4			
5			Gray brown, **SILT** with very fine sand, moist.	ML	
5					0.0 / 0.0
6	G2				
			Gray bown / orange brown, **SILT** with very fine sand, trace clay, moist to wet,	ML	
7	(56 / 60)		mottled.		
					0.0 / 0.0
8		8			
		8			
9			Gray, fine **SAND** with silt, wet. Some seams of medium sand.	SM	0.0 / 0.0
10		10			
10		10			
11	G3		Gray, **SILT** with very fine sand, wet. Some seams of medium to fine sand.	ML	0.0 / 0.0
12	(37 / 60)	12			
		12			
13					0.0 / 0.0
			Gray, **CLAY**, little silt, wet, laminated.	CL	
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water 2.8 (ft) Date & Time 11092009
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-8

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11092009
End Date: 11092009
Boring No. GP-7

Project Number: FD900431 | Geologist: T. Bown | Weather: ~55°F, overcast, breezy.
Client: NYSDEC | Project Manager: T. Bown | Northing: | Datum:
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0		0.5	Brown, **ORGANIC SOIL**, some medium sand, moist, roots present.	OL/OH	
1	G1	0.5			
					0.0 / 0.0
2	(52 / 60)		Brown, medium to fine **SAND** with silt, some large to small gravel, dry to moist.	SM	
		2.5			
3		2.5	Black / dark brown, **ORGANIC SOIL**, moist, roots present.	OL/OH	
		3.5			0.0 / 0.0
4		3.5			
			Gray brown / orange brown, **SILT** with fine sand, moist, mottled.	ML	
5					
5			Gray brown / orange brown, **SILT** with fine sand, trace clay, moist.	ML	0.0 / 0.0
6	G2				
		6.5			
7	(58 / 60)	6.5			
			Brown, fine **SAND** with silt, moist to wet.	SM	0.0 / 0.0
8		8			
		8			
9			Gray, **CLAY** with silt, wet, laminated. Some seams of orange brown silt with	CL	0.0 / 0.0
			fine sand.		
10					
10					
11	G3				
			No recovery.		
12	(0 / 60)				
			NOTE: Attempted second sample recovery of disturbed soil but no recovery		
13					
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water _____ (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-7

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11052009
End Date: 11052009
Boring No. GP-6

Project Number: FD900431 | Geologist: T. Bown | Weather: ~45°F, Windy, rain, hail.
Client: NYSDEC | Project Manager: T. Bown | Northing: | Datum:
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, **ORGANIC SOIL** with coarse sand, little small gravel, dry to moist,	OL/OH	
1	G1	1	roots present,		
		1 1.5	Brown, large to small **GRAVEL**, some medium to fine sand, moist.	GW	7.6 / 0.7
2	(39 / 60)	1.5			
3			Black, coarse to medium **SAND**, some small gravel, particles and fragments	SW	
			of cinder, coal, ash, dry.		6.4 / 0.7
4					
5					
5			Black, coarse to medium **SAND**, some small gravel, moist, sub-rounded.	SW	5.2 / 0.7
6	G2				
		6.5			
7	(59 / 60)	6.5 7	Brown, medium to fine **SAND** with silt, moist.	SM	
		7			3.5 / 0.7
8					
			Light brown/orange brown, **SILT** with fine sand, trace small gravel, moist,	ML	
9			oxidized.		9.0 / 0.0
10					
10					
11	G3		Gray, **SILT**, little fine sand, wet.	ML	92.6 / 0.7
12	(30 / 60)	12			
		12			
13					163 / 0.7
			Gray, **CLAY**, some silt, wet, laminated.	CL	
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water _____ (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-6

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11052009
End Date: 11052009
Boring No. GP-5

Project Number: FD900431 | Geologist: T. Bown | Weather: ~45°F, Windy, rain, hail.
Client: NYSDEC | Project Manager: T. Bown | Northing: | Datum:
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0		0.5	Brown, **ORGANIC SOIL** with large gravel, moist, roots present.	OL/OH	
1	G1	0.5			
					3.1 / 0.3
2	(48 / 60)		Black, coarse to medium **SAND** with small gravel, particles and fragments of		
			coal, ash, slag, moist.		
3					
		3.1			55.6 / 0.5
4		3.1 3.6	Brown, fine **SAND**, little small gravel, moist.	SP	
		3.6			
5			Gray brown, medium to fine **SAND** with silt, moist, mottled.	SM	
5					66.8 / 0.0
6	G2	6			
		6	Light brown / yellow brown, **SILT** with fine sand, trace small gravel, wet,	ML	
7	(53 / 60)		oxidized.		
					468 / 0.7
8					
9					808 / 1.1
			Gray brown, **SILT** with fine sand, wet. Few seams of medium to fine sand.	ML	
10					
10					
11	G3		Gray brown, **SILT** with fine sand, wet.	ML	434 / 1.0
12	(53 / 60)	12.2			
		12.2			
13			Gray, medium to fine **SAND** with silt, wet.	SM	187 / 1.0
		13.6			
14		13.6			
			Gray, **CLAY** with silt, wet, laminated.	CL	21 / 1.0
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water _____ (ft) Date & Time
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-5

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11052009
End Date: 11052009
Boring No. GP-4

Project Number: FD900431 | Geologist: T. Bown | Weather: ~45°F, Windy, rain, hail.
Client: NYSDEC | Project Manager: T. Bown | Northing: | Datum:
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, large **GRAVEL**, some coarse to medium sand, moist, roots present.	**GP**	
1	G1	**1**			
		1	Black, coarse to fine **SAND** with small gravel, wet.	**SW**	4.1 / 0.3
2	(55 / 60)	**2**			
		2 2.5	Brown, large to small **GRAVEL**, some silt, trace coarse sand, wet.	**GW**	
3		**2.5**			
					7.2 / 0.5
4			Gray brown, **SILT**, some coarse to fine sand, wet, roots present.	**ML**	
5					
5			Gray, **SILT**, some medium to fine sand, wet, roots present.	**ML**	2.7 / 0.5
6	G2				
7	(57 / 60)		Light brown / orange brown, **SILT**, little clay, trace small gravel, wet, mottled,	**ML**	
			oxidized.		6.1 / 0.5
8					
9					9.0 / 0.5
			Gray, **SILT**with very fine sand, trace fine gravel, wet.	**ML**	
10					
10					
11	G3				40.9 / 0.5
			Gray, **SILT** with very fine sand, wet. Few seams of yellow brown, medium	**ML**	
12	(37 / 60)		to fine sand.		
		12.5			
13		**12.5**			16.3 / 0.5
			Gray, **CLAY**, little silt, wet, laminated.	**CL**	
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water 1.6 (ft) Date & Time 11052009
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-4

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11052009
End Date: 11052009
Boring No. GP-3

Project Number: FD900431 | Geologist: T. Bown | Weather: ~45°F, Windy, rain, hail.
Client: NYSDEC | Project Manager: T. Bown | Northing: | Datum:
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0					
1	G1		Brown, fine **GRAVEL**, some coarse to fine sand, dry, no odor.	**GP**	
		1.4			6.8 / 0.0
2	(52 / 60)	**1.4**			
			Black, **GRAVEL,** particles and fragments of cinder, ash, coal, and brick, dry.		
3					
		3.6			19.5 / 0.0
4		**3.6 4**	Brown, coarse to fine **GRAVEL**, some medium to fine sand, dry.	**GP**	
		4	Brown, **SILT** with clay, little fine sand, moist, mottled.	**ML**	
5					
5		**5.5**	Brown, **SILT**, some fine gravel, dry.	**ML**	18.5 / 0.0
6	G2	**5.5**	Brown, **ORGANIC SOIL**, moist,organic odor.	**OL/OH**	
		6.5			
7	(59 / 60)	**6.5**			
			Gray brown / yellow brown, **SILT**, some fine sand, little clay, moist to wet,	**ML**	180 / 0.0
8			mottled.		
9					135 / 0.0
			Gray, **SILT**, little fine sand, wet, homogenous.	**ML**	
10					
10					
11	G3	**11**			257 / 0.0
		11			
12	(32 / 60)				
			Gray, **CLAY**, little silt, wet, laminated.	**CL**	
13					187 / 0.0
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water _____ (ft) Date & Time _____
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-3

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11052009
End Date: 11052009
Boring No. GP-2

Project Number: FD900431 | Geologist: T. Bown | Weather: ~45°F, Windy, rain, hail.
Client: NYSDEC | Project Manager: T. Bown | Northing: | Datum:
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Brown, coarse to medium **SAND**, some coarse to fine gravel, moist	SW	
1	G1	1			
		1			0.0 / 0.0
2	(46 / 60)		Black, particles and fragments of ash, coal, cinder, and bricks, moist.		
3		3			
		3 3.5	Gray, fine **GRAVEL**, some coarse sand, moist.	GP	0.0 / 0.0
4		3.5			
			Brown, fine **SAND**, some silt, wet.	SM	
5		5			
5		5	Yellow brown, **SILT**, some fine sand, wet, mottled.	ML	1.7 / 0.0
6	G2				
7	(44 / 60)				
			Gray, **SILT**, some clay, wet, laminated. Small black organic particles.	ML	17.5 / 0.0
8					
9					112 / 0.0
10					
10			Gray, **SILT** with very fine sand, wet. Few seams of fine to medium sand.	ML	
11	G3	11			88.9 / 0.0
		11			
12	(40 / 60)		Gray, **CLAY**, little silt, wet.	CL	
13					8.0 /0.0
14					
15					
			Bottom of Exploration 15.0 ft.		

Depth to Water _____ (ft) Date & Time _____
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-2

OP-TECH® Response • Service • Experience

SUBSURFACE BORING LOG

Start Date: 11052009
End Date: 11052009
Boring No. GP-1

Project Number: FD900431 | Geologist: T. Bown | Weather: ~45°F, Windy, rain, hail.
Client: NYSDEC | Project Manager: T. Bown | Northing: | Datum:
Location (City, State): Mayville, New York | Driller: Beau Fletcher | Easting:
Drill Rig Type: GeoProbe 6610 (Track Mounted) | Borehole Diameter (ft.): 0.25
Type of Sampling Device: GeoProbe Macro-Core Sampler | Type of Casing:

Depth *(feet)*	Sample ID (Recovery)	STRATUM	SOIL DESCRIPTION *(Unified Soil Classification System)*	USCS Symbol	PID Screening (ppm)
0			Light brown, **ORGANIC SOIL**, some fine gravel, trace coarse sand, dry to	**OL/OH**	
1	G1		moist, organic odor.		0.3 / 0.0
		1.3			
2	(55 / 60)	**1.3**	Black, coarse to fine **SAND**, trace fine gravel, particles and fragments of brick,		
		2.4	cinder, coal,and wood, dry.		
3		**2.4**			0.4 / 0.0
			Yellow brown, fine **SAND**, some silt, little fine gravel, moist to wet, mottled.	**SM**	
4					
5		**5**			0.0 / 0.0
5		**5**	Brown, **SILT**, some fine sand, wet, mottled.	**ML**	
6	G2				
7	(43 / 60)				4.5 / 0.0
8			Gray, **SILT**, some clay, trace fine sand, wet. Small particles of black organics,	**ML**	
			homogenous.		
9					6.9 / 0.0
10					
10		**10.5**			0.0 / 0.0
11	G3	**10.5**			
12	(18 / 60)		Gray, fine **SAND**, some silt, wet.	**SM**	
13					
14					
15					
			Bottom of Exploration 15.0ft.		

Depth to Water 3.7 (ft) Date & Time 11052009
Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No. GP-1

APPENDIX B

WELL DEVELOPMENT REPORTS

OP-TECH®
Response • Service • Experience

MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-20

SOIL BORING ID GP-20

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1318.41**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/24/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 0.70**	**Flushmount** □**X**
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 0.70

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 5.6

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
11:54	0.5	6.87	12.5	898.1	-32	NA	High
	1	6.74	13	988.2	-30	NA	High
	2	6.72	13.2	1061	-37	NA	High
	3.5	6.75	13.2	1118	-41	NA	High
	4.5	6.75	13.2	827.8	-51	NA	High
	5.5	6.8	13	1115	-53	NA	High

Total Volume of Water Removed from Well (gallons): 5.5

Comments on Well Development: Heavy fines in development water, silt particles flowing through well

OP-TECH®
Response • Service • Experience

MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-17

SOIL BORING ID GP-17

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1319.34**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/24/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 0.71**	**Flushmount** □**X**
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 0.71

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 5.5

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
11:10	1	6.75	11.5	1364	-49	NA	High
	2	6.86	11.1	1528	33	NA	High
	2.5	6.83	11.5	1063	-42	NA	High

Total Volume of Water Removed from Well (gallons): 1.5

Comments on Well Development: Well went dry during development, heavy fines in development water, silt particles flowing through well

OP-TECH®
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MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-8

SOIL BORING ID GP-8

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1321.18**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/24/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 2.26**	**Flushmount** □X
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 2.26

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 4.7

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
10:32	0.5	6.99	9.9	753.9	-1	NA	High
	1	6.86	11.4	1061	-36	NA	High
	1.5	6.79	11.3	1198	11	NA	High

Total Volume of Water Removed from Well (gallons): 1.5

Comments on Well Development: Well went dry during development, heavy fines in development water, silt particles flowing through well

OP-TECH®
Response • Service • Experience

MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-9

SOIL BORING ID GP-9

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1320.40**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/24/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 1.56**	**Flushmount** □X
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 1.56

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 5.0

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
10:00	1	6.61	11.1	1478	42	NA	High
	2	6.81	11.5	1428	4	NA	High
	2.5	6.64	11.2	1377	69	NA	2672
	3	6.59	11.2	1412	46	NA	High

Total Volume of Water Removed from Well (gallons): 3.0

Comments on Well Development: Well went dry during development, heavy fines in development water, silt particles flowing through well

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MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-10

SOIL BORING ID GP-10

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1319.67**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/24/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 0.88**	**Flushmount** □X
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 0.88

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 5.3

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
9:33	0.5	7.02	10.1	696.9	-64	NA	68.8
	1.5	6.89	10.7	702.1	43	NA	1799
	2	6.91	10.8	670.6	64	NA	438
	3	6.69	10.7	676.4	64	NA	345

Total Volume of Water Removed from Well (gallons): 3.5

Comments on Well Development: Well went dry during development, heavy fines in development water, silt particles flowing through well

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MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-13

SOIL BORING ID GP-13

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1320.06**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/24/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 1.49**	**Flushmount** □X
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 1.49

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 5.1

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
8:45	0.25	7.31	10.9	450.4	-89	NA	High
	1.5	7.09	11.7	636.3	-58	NA	High
	2.5	6.98	12.2	529.1	-70	NA	High
	3.5	7.05	12.5	428.5	-86	NA	High

Total Volume of Water Removed from Well (gallons): 5.1

Comments on Well Development: Well went dry during development, heavy fines in development water, silt particles flowing through well

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MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-6

SOIL BORING ID GP-6

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1321.78**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/24/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 5.06**	**Flushmount** □X
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 5.06

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 3.5

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
8:25	0.5	7.57	10.8	1644	-85	NA	4225
	1	7.05	11.7	2003	33	NA	High

Total Volume of Water Removed from Well (gallons): 1

Comments on Well Development: Well went dry during development, heavy fines in development water, silt particles flowing through well

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MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-14

SOIL BORING ID GP-14

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1320.12**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/24/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 3.18**	**Flushmount** □**X**
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 3.18

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 4.30

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
8:00	1	7.27	10.9	668.8	26	NA	High
	1.25	7.43	11.7	893.8	-61	NA	High

Total Volume of Water Removed from Well (gallons): 1.25

Comments on Well Development: Well went dry during development, heavy fines in development water, silt particles flowing through well

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MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-5

SOIL BORING ID GP-5

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1320.85**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/23/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 3.19**	**Flushmount** □X
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 3.19

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 4.30

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
16:50	0.25	6.87	11.3	1028	-32	NA	High
	0.75	6.94	11.5	1030	-56	NA	163
	1	7.11	12.1	1013	-77	NA	1764
	1.5	6.61	13.6	974.7	149	NA	2185
	2	6.89	12.7	983.8	58	NA	High
	2.5	7.21	11.5	846.5	-25	NA	954

Total Volume of Water Removed from Well (gallons): 4.0

Comments on Well Development: Well went dry during development, heavy fines in development water, silt particles flowing through well

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Response • Service • Experience

MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-4

SOIL BORING ID GP-4

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1320.81**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/23/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 1.78**	**Flushmount** □X
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 1.78

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 4.90

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
14:25	1	6.99	12.1	866.4	82	NA	31.9
	2	6.87	12.1	876.4	-30	NA	34
	3	6.95	11.9	885.2	20	NA	High
	4	6.86	12	886.9	49	NA	122

Total Volume of Water Removed from Well (gallons): 4.0

Comments on Well Development: Heavy fines in development water, silt particles flowing through well

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MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-3

SOIL BORING ID GP-3

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1320.93**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/23/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 2.18**	**Flushmount** □X
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 2.18

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 4.77

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
14:00	0.5	7	14.7	1218	-47	NA	1129
	1	7.03	12	1232	19	NA	188
	2	7.05	11.4	1215	-44	NA	4958
	2.5	7.04	11.3	1227	-26	NA	2263

Total Volume of Water Removed from Well (gallons): 2

Comments on Well Development: Well went dry during development, heavy fines in development water, silt particles flowing through well

OP-TECH®
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MONITORING WELL DEVELOPMENT REPORT

WELL No. GPW-2

SOIL BORING ID GP-2

Project Number: FD900431 - Offsite Former Standard Portables	**Geologist: T. Bown**	**Ground El.: 1321.78**
Client: NYSDEC	**Project Manager: T. Bown**	**El. Datum: NAVD88**
Location (City, State): Mayville, NY	**Development Date: 11/23/2009**	**Stick-up** □
Contractor: Not Applicable	**Water Level: 3.14**	**Flushmount** □X
Driller: Not Applicable	Note: All water level measurements shall be from the top of the well riser.	

Depth to Water before Development (feet): 3.14

Comments: _____

Depth to Bottom of Well prior to Development (feet): 13.0

Comments: _____

Volume of Water to be removed (gallons): 4.34

Method of Well Development: Peristaltic pump with 1/4-in. polyethylene tubing

Comments: _____

Type of Water Quality Meter (Make & Model): Myron 6P Water Quality, LaMotte 2020

Serial Number **Equipment Calibration: Yes X No** □ **Date & Time: 11232009 1330**

Calibration: pH 7.0 Dissolve Oxygen (mg/l) NA Turbidity (NTUs) 0.0 Conductivity (mS/cm) 4.46

TIME	VOLUME (gal)	pH	Temperature (°C)	Conductivity (mS/cm)	Redox Potential (mV)	D.O. (mg/l)	Turbidity (NTUs)
13:10	0.5	6.33	15.3	822.1	42	NA	308
	1	7.13	14.9	717.9	55	NA	989
	1.5	7.15	15.8	717.1	26	NA	968
	1.5	7.18	12.2	720.1	-42	NA	44.3
13:50	2	7.14	12.4	707.4	-11	NA	2134

Total Volume of Water Removed from Well (gallons): 2

Comments on Well Development: Well went dry during development, heavy fines in development water, silt particles flowing through well

APPENDIX C

GROUNDWATER SAMPLING REPORTS

OP-TECH® Response • Service • Experience

GROUNDWATER SAMPLING REPORT

GPW-20
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date: December 9, 2009

		Groundwater Sampling Information						
Well No.		GPW-20						
Time		8:35						
Static Water Level (ft) (1)		16:48						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		12.3						
Volume of Water in Well (gal) (3)		0.54243						
Volume of Well to be Purged (gal) (4)		1.63						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Bailer						
Water Quality Parameters	Time	9:00						
	Water Level (ft.)							
	pH	6.87						
	Temperature (°C)	12.5						
	Conductivity (mS/cm)	1075.000						
	Redox Potential (mV)	-51						
	Turbidity (NTUs)	-5						
	Dissolved Oxygen (mg/l)	0.23						
	Total Dissolved Solids (ppm)	1						
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	9:00						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Used bailer to purge well and collect a water sample.

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GROUNDWATER SAMPLING REPORT

GPW-18
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date: December 9, 2009

		Groundwater Sampling Information						
Well No.		GPW-18						
Time		7:55						
Static Water Level (ft) (1)		1.59						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		11.41						
Volume of Water in Well (gal) (3)		0.503181						
Volume of Well to be Purged (gal) (4)		0.50						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Bailer						
Water Quality Parameters	Time	8:00	8:06					
	Water Level (ft.)	1.29	2.1					
	pH	6.34	6.53					
	Temperature (°C)	6.21	6.95					
	Conductivity (mS/cm)	1.840	1.740					
	Redox Potential (mV)	54	23					
	Turbidity (NTUs)	-5	-5					
	Dissolved Oxygen (mg/l)	0.64	0.00					
	Total Dissolved Solids (ppm)	1.2	1.1					
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	8:30						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Battery on peristaltic pump died out, used bailer to finish purging well and collect a water sample.

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GROUNDWATER SAMPLING REPORT

GPW-17
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 9, 2009

Groundwater Sampling Information								
Well No.		GPW-17						
Time		10:00						
Static Water Level (ft) (1)		1.59						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		11.41						
Volume of Water in Well (gal) (3)		0.503181						
Volume of Well to be Purged (gal) (4)		0.50						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Low-Flow						
Water Quality Parameters	Time	10:07	10:13	10:20	10:24	10:28	10:34	
	Water Level (ft.)	3.34	5.79	7.5	7.43	7.53	7.72	
	pH	6.94	6.75	6.74	6.74	6.76	6.77	
	Temperature (°C)	8.01	8.31	7.34	7.61	7.86	7.95	
	Conductivity (mS/cm)	1.490	1.440	1.350	1.330	1.340	1.340	
	Redox Potential (mV)	32	17	-15	-30	-39	-47	
	Turbidity (NTUs)	-5	-5	0/ER	0/ER	0/ER	0/ER	
	Dissolved Oxygen (mg/l)	3.40	1.03	0.31	0.00	0.00	0.00	
	Total Dissolved Solids (ppm)	1	0.9	0.9	0.9	0.9	0.9	
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	14:40						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Well was submerged with surface water, bailed out surface water and attached coupled tubing (18-in. length). Drawdown occurred while sampling, pump was at lowest setting, emptied flow cell for fines removals.

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GROUNDWATER SAMPLING REPORT

GPW-14
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 9, 2009

Groundwater Sampling Information								
Well No.		GPW-14						
Time		14:05						
Static Water Level (ft) (1)		3.09						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		9.91						
Volume of Water in Well (gal) (3)		0.437031						
Volume of Well to be Purged (gal) (4)		0.44						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Low-Flow						
Water Quality Parameters	Time	14:10	14:15	14:21	14:28	14:32	14:43	
	Water Level (ft.)	4.46	5.67	6.64	7.67	8.39	9.95	
	pH	7.34	7.31	7.32	7.27	7.27	7.28	
	Temperature (°C)	7.11	8.23	8.01	7.93	7.95	7.59	
	Conductivity (mS/cm)	0.803	0.859	0.879	0.902	0.898	0.714	
	Redox Potential (mV)	-52	-15	-14	-55	-71	-84	
	Turbidity (NTUs)	-5	-5	-5	417	0/ER	0/ER	
	Dissolved Oxygen (mg/l)	1.20	3.05	0.48	0.67	0.00	0.00	
	Total Dissolved Solids (ppm)	0.52	0.55	0.56	0.58	0.57	0.46	
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	14:40						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Well was submerged with surface water, bailed out surface water and attached coupled tubing (18-in. length). Drawdown occurred while sampling, pump was at lowest setting, emptied flow cell for fines removals.

OP-TECH® Response • Service • Experience

GROUNDWATER SAMPLING REPORT

GPW-13
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 14, 2009

Groundwater Sampling Information								
Well No.		GPW-13						
Time		13:50						
Static Water Level (ft) (1)		2.51						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		10.49						
Volume of Water in Well (gal) (3)		0.462609						
Volume of Well to be Purged (gal) (4)		0.46						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Low-Flow						
Water Quality Parameters	Time	13:53	13:57	14:03	14:09	14:14		
	Water Level (ft.)	4.93	5.61	6.49	7.22	7.31		
	pH	7.32	7.02	6.95	6.97	7.00		
	Temperature (°C)	8.97	9.85	10.11	10.36	10.48		
	Conductivity (mS/cm)	0.789	0.752	0.660	0.663	0.597		
	Redox Potential (mV)	27	10	-7	-18	-28		
	Turbidity (NTUs)	50.8	62.8	0/ER	0/ER	0/ER		
	Dissolved Oxygen (mg/l)	0.48	0.00	0.00	0.00	0.00		
	Total Dissolved Solids (ppm)	0.49	0.48	0.42	0.42	0.37		
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	12:25						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Well was submerged with surface water, bailed out surface water and attached coupled tubing (18-in. length). Drawdown occurred while sampling, pump was at lowest setting, emptied flow cell for fines removals.

OP-TECH® Response • Service • Experience

GROUNDWATER SAMPLING REPORT

GPW-10
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 9, 2009

Groundwater Sampling Information	
Well No.	GPW-10
Time	12:05
Static Water Level (ft) (1)	1.03
Product (ft) (1)	NA
Depth of Well (ft) (1)	13
Well Diameter (in)	1
Linear Feet of Water (ft) (2)	11.97
Volume of Water in Well (gal) (3)	0.527877
Volume of Well to be Purged (gal) (4)	0.53
Purging Device	GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing
Water Quality Meter	Horiba U-22
Sampling Method	Low-Flow

Water Quality Parameters	Time	12:12	12:15	12:20	12:27	12:33		
	Water Level (ft.)	2.3	3.25	3.35	3.74	4.41		
	pH	6.90	6.80	6.78	6.84	6.77		
	Temperature (°C)	7.15	8.6	8.36	7.83	8.07		
	Conductivity (mS/cm)	0.688	0.670	0.668	0.669	0.668		
	Redox Potential (mV)	76	65	50	50	43		
	Turbidity (NTUs)	-5	-5	-5	-5	-5		
	Dissolved Oxygen (mg/l)	0.23	0.23	0.00	0.00	0.00		
	Total Dissolved Solids (ppm)	0.43	0.43	0.43	0.43	0.43		
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	12:25						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical labo laboratory.

Sampling Observations: Well was submerged with surface water, bailed out surface water and attached coupled tubing (18-in. length). Drawdown occurred while sampling, pump was at lowest setting, emptied flow cell for fines removals.

OP-TECH® Response • Service • Experience

GROUNDWATER SAMPLING REPORT

GPW-9
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 9, 2009

Groundwater Sampling Information								
Well No.		GPW-9						
Time		13:00						
Static Water Level (ft) (1)		0.8						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		12.2						
Volume of Water in Well (gal) (3)		0.53802						
Volume of Well to be Purged (gal) (4)		0.54						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Low-Flow						
Water Quality Parameters	Time	13:10	13:13	13:19	13:24	13:30		
	Water Level (ft.)	2.18	3.21	2.68	2.59	3.59		
	pH	6.73	6.77	6.61	6.59	6.57		
	Temperature (°C)	8.34	8.58	7.84	7.87	9		
	Conductivity (mS/cm)	1.530	1.590	1.610	1.590	1.580		
	Redox Potential (mV)	83	57	46	41	30		
	Turbidity (NTUs)	578	-5	-5	-5	-5		
	Dissolved Oxygen (mg/l)	2.94	0.00	0.00	0.00	0.00		
	Total Dissolved Solids (ppm)	1	1	1	1	1		
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	13:35						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Well was submerged with surface water, bailed out surface water and attached coupled tubing (18-in. length). Drawdown occurred while sampling, pump was at lowest setting, emptied flow cell for fines removals.

OP-TECH® Response • Service • Experience

GROUNDWATER SAMPLING REPORT

GPW-8
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 9, 2009

Groundwater Sampling Information								
Well No.		GPW-8						
Time		13:45						
Static Water Level (ft) (1)		1.68						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		11.32						
Volume of Water in Well (gal) (3)		0.499212						
Volume of Well to be Purged (gal) (4)		0.50						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Low-Flow						
Water Quality Parameters	Time	14:10	14:15	14:18	14:28			
	Water Level (ft.)	3.6	4.12	4.95	5.64			
	pH	6.79	6.77	6.75	6.76			
	Temperature (°C)	6.8	5.8	7.02	8.08			
	Conductivity (mS/cm)	1.240	1.270	1.220	1.160			
	Redox Potential (mV)	-24	-24	-24	-22			
	Turbidity (NTUs)	-5	-5	-5	-5			
	Dissolved Oxygen (mg/l)	3.64	1.06	0.00	0.00			
	Total Dissolved Solids (ppm)	0.8	0.8	0.8	0.7			
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	14:35						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Well was submerged with surface water, bailed out surface water and attached coupled tubing (18-in. length). Drawdown occurred while sampling, pump was at lowest setting, emptied flow cell for fines removals.

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GROUNDWATER SAMPLING REPORT

GPW-6
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 14, 2009

		Groundwater Sampling Information						
Well No.		GPW-6						
Time		13:00						
Static Water Level (ft) (1)		3.18						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		9.82						
Volume of Water in Well (gal) (3)		0.433062						
Volume of Well to be Purged (gal) (4)		0.43						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Low-Flow						
Water Quality Parameters	Time	13:03	13:09	13:14	13:19			
	Water Level (ft.)	5.5	7.15	8.82	12			
	pH	7.76	7.64	7.64	7.56			
	Temperature (°C)	8.83	8.84	9.09	9.83			
	Conductivity (mS/cm)	2.110	1.930	1.850	1.980			
	Redox Potential (mV)	-122	-141	-118	-120			
	Turbidity (NTUs)	-5	-5	-5	-5			
	Dissolved Oxygen (mg/l)	1.24	0.00	0.00	0.00			
	Total Dissolved Solids (ppm)	1.4	1.2	1.2	1.2			
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	13:30						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Well drawdown occurred with pump at lowest setting. Empty flow cell for fines removal.

OP-TECH® Response • Service • Experience

GROUNDWATER SAMPLING REPORT

GPW-5
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 8, 2009

		Groundwater Sampling Information						
Well No.		GPW-5						
Time		13:00						
Static Water Level (ft) (1)		2.99						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		10.01						
Volume of Water in Well (gal) (3)		0.441441						
Volume of Well to be Purged (gal) (4)		0.44						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Low-Flow						
Water Quality Parameters	Time	13:03	13:10	13:15	13:22	13:33	13:35	
	Water Level (ft.)	4.28	6.01	6.81	7.74	8.71	9.13	
	pH	7.09	6.98	6.97	6.97	6.98	6.99	
	Temperature (°C)	8.72	9.4	9.32	9.44	9.93	10	
	Conductivity (mS/cm)	0.944	1.000	1.000	0.990	0.980	0.980	
	Redox Potential (mV)	74	-17	-40	-52	-59	-65	
	Turbidity (NTUs)	-5	-5	745	686	-5	-5	
	Dissolved Oxygen (mg/l)	0.77	0.00	0.00	0.00	0.00	0.00	
	Total Dissolved Solids (ppm)	0.6	0.6	0.6	0.6	0.6	0.6	
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	13:40						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Well drawdown occurred with pump at lowest setting. Empty flow cell for fines removal.

OP-TECH® Response • Service • Experience

GROUNDWATER SAMPLING REPORT

GPW-4
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 8, 2009

		Groundwater Sampling Information						
Well No.		GPW-4						
Time		10:40						
Static Water Level (ft) (1)		1.51						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		11.49						
Volume of Water in Well (gal) (3)		0.506709						
Volume of Well to be Purged (gal) (4)		0.51						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Low-Flow						
Water Quality Parameters	Time	10:45	10:58	11:02	11:09	11:14	11:29	11:37
	Water Level (ft.)	2.06	2.18	2.24	2.27	2.29	2.38	2.44
	pH	7.51	7.03	6.93	6.69	6.90	6.88	6.88
	Temperature (°C)	7.36	8.68	8.6	8.74	8.32	8.44	8.63
	Conductivity (mS/cm)	0.688	0.723	0.726	0.720	0.726	0.726	0.731
	Redox Potential (mV)	70	79	77	86	73	61	53
	Turbidity (NTUs)	-5	-5	-5	-5	-5	785	807
	Dissolved Oxygen (mg/l)	5.71	3.03	0.00	1.21	0.00	0.25	0.00
	Total Dissolved Solids (ppm)	0.46	0.46	0.46	0.46	0.46	0.47	0.47
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	11:45						
	SVOCs	11:45						
	Total Metals	11:45						
	Dissolved Metals (5)	11:45						
	Cyanide	11:45						

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Well drawdown occurred with pump at lowest setting. Empty flow cell twice for fines removal. Full suite of samples collected.

OP-TECH® Response • Service • Experience

GROUNDWATER SAMPLING REPORT

GPW-3
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 8, 2009

		Groundwater Sampling Information						
Well No.		GPW-3						
Time		9:35						
Static Water Level (ft) (1)		1.85						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		11.15						
Volume of Water in Well (gal) (3)		0.491715						
Volume of Well to be Purged (gal) (4)		0.49						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Low-Flow						
Water Quality Parameters	Time	9:39	9:46	9:50	9:56	10:02	10:06	10:12
	Water Level (ft.)	3.22	4.11	5.08	5.92	6.77	7.51	8.64
	pH	6.95	6.97	6.95	6.96	6.94	6.93	6.91
	Temperature (°C)	8.16	8.93	8.6	8.8	9.69	9.78	9.97
	Conductivity (mS/cm)	1.190	1.160	1.200	1.200	1.180	1.190	1.190
	Redox Potential (mV)	69	67	42	18	13	14	13
	Turbidity (NTUs)	-5	799	787	420	425	407	756
	Dissolved Oxygen (mg/l)	3.27	4.50	0.05	0.00	0.00	0.00	0.00
	Total Dissolved Solids (ppm)	0.8	0.7	0.8	0.8	0.8	0.8	0.8
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	10:15						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Well drawdown occurred with pump at lowest setting. Empty flow cell after first reading

FIELD DUPLICATE collected (FD-12082009)

OP-TECH® Response • Service • Experience

GROUNDWATER SAMPLING REPORT

GPW-2
Page of

Project Number: FD900431 Former Standard Portables Off-Site

Client: New York State Department of Environmental Conservation

Location (City, State): Mayville, New York

Date:December 8, 2009

		Groundwater Sampling Information						
Well No.		GPW-2						
Time		8:15						
Static Water Level (ft) (1)		2.36						
Product (ft) (1)		NA						
Depth of Well (ft) (1)		13						
Well Diameter (in)		1						
Linear Feet of Water (ft) (2)		10.64						
Volume of Water in Well (gal) (3)		0.469224						
Volume of Well to be Purged (gal) (4)		0.47						
Purging Device		GeoPump (Peristaltic) with 1/4-in. Polyethylene Tubing						
Water Quality Meter		Horiba U-22						
Sampling Method		Low-Flow						
Water Quality Parameters	Time	8:30	8:37	8:44	8:48	8:53	8:57	9:02
	Water Level (ft.)	4.93	5.23	6.02	6.94	7.66	8.34	8.82
	pH	6.48	6.35	6.40	6.49	6.67	6.80	6.89
	Temperature (°C)	10.51	10.46	10.48	10.67	10.54	10.68	10.73
	Conductivity (mS/cm)	0.831	0.843	0.901	0.895	0.878	0.830	0.772
	Redox Potential (mV)	214	114	5	-20	-37	-47	-55
	Turbidity (NTUs)	33.6	368	281	264	195	188	160
	Dissolved Oxygen (mg/l)	0.93	0.00	0.00	0.00	0.00	0.00	0.00
	Total Dissolved Solids (ppm)	0.53	0.54	0.58	0.57	0.56	0.53	0.49
	Salinity							
	Color							
	Odor							
Sample Collection Time	VOCS	9:05						
	SVOCs							
	Total Metals							
	Dissolved Metals (5)							
	Cyanide							

(1) All measurements are to be taken from the reference point on the top of the well riser.

(2) Linear Feet of Water = Depth of Well - Static Water Level

(3) Volume of Water in Well = Linear Feet of Water in Well * Gallons Per Foot of Depth

Well Diameter (ID) = Gallons per Foot of Depth: 1 = 0.0441 2 = 0.163 4 = 0.653 6 = 1.469 8 = 2.611 10 = 4.080 12 = 5.875

(4) Volume of Well to be Purged = (3 to 5x) Volume of Water in Well

(5) Dissolved Metal samples are to be either filtered in the field and indicated on field forms/COCs or within 24-hours after collection by analytical laboratory.

Sampling Observations: Well drawdown occurred with pump at lowest setting.

APPENDIX D

LABORATORY ANALYTICAL REPORTS

Soil Analytical Results

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0711

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/13/09
Reported: 12/11/09 16:56

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GP-3A (12-14) (RSK0711-03 - Solid)					**Sampled: 11/13/09 11:00**			**Recvd: 11/13/09 16:00**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethene	**7.9**		6.7	0.82	ug/kg dry	1.00	11/25/09 15:58	PQ	9K25015	8260B
Acetone	**9.5**	J	34	1.5	ug/kg dry	1.00	11/25/09 15:58	PQ	9K25015	8260B
Carbon disulfide	**15**		6.7	0.58	ug/kg dry	1.00	11/25/09 15:58	PQ	9K25015	8260B
cis-1,2-Dichloroethene	**2200**	E	6.7	0.33	ug/kg dry	1.00	11/25/09 15:58	PQ	9K25015	8260B
Methylene Chloride	**5.4**	B, J	6.7	1.3	ug/kg dry	1.00	11/25/09 15:58	PQ	9K25015	8260B
Toluene	**8.8**		6.7	0.51	ug/kg dry	1.00	11/25/09 15:58	PQ	9K25015	8260B
trans-1,2-Dichloroethene	**21**		6.7	0.69	ug/kg dry	1.00	11/25/09 15:58	PQ	9K25015	8260B
Trichloroethene	**6000**	E	6.7	0.46	ug/kg dry	1.00	11/25/09 15:58	PQ	9K25015	8260B
Vinyl chloride	**85**		13	0.82	ug/kg dry	1.00	11/25/09 15:58	PQ	9K25015	8260B
Total Metals by SW 846 Series Methods										
Aluminum	**10000**		14.4	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Arsenic	**12.4**		2.9	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Barium	**61.6**		0.720	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Beryllium	**0.472**		0.288	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Calcium	**29100**		72.0	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Chromium	**14.3**		0.720	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Cobalt	**12.6**		0.720	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Copper	**26.1**		1.4	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Iron	**28400**		14.4	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Lead	**13.2**		1.4	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Magnesium	**11400**		28.8	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Manganese	**492**		0.3	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Nickel	**27.3**		7.20	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Potassium	**1720**		43.2	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Vanadium	**16.1**		0.720	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
Zinc	**63.7**		2.9	NR	mg/kg dry	1.00	11/18/09 05:02	LMH	9K16078	6010B
General Chemistry Parameters										
Percent Solids	**74**		0.010	NR	%	1.00	11/14/09 18:48	JR	9K14006	Dry Weight
Client ID: GP-3A (12-14) (RSK0711-03RE1 - Solid)					**Sampled: 11/13/09 11:00**			**Recvd: 11/13/09 16:00**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**5500**	D08, W1	2600	130	ug/kg dry	20.0	11/27/09 14:32	DHC	9K25095	8260B
Trichloroethene	**220000**	D08, W1	2600	180	ug/kg dry	20.0	11/27/09 14:32	DHC	9K25095	8260B
Client ID: GP-3A (2-4) (RSK0711-02 - Solid)					**Sampled: 11/13/09 10:45**			**Recvd: 11/13/09 16:00**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethene	**14**		6.9	0.84	ug/kg dry	1.00	11/25/09 15:33	PQ	9K25015	8260B
Acetone	**21**	J	34	1.5	ug/kg dry	1.00	11/25/09 15:33	PQ	9K25015	8260B
Carbon disulfide	**1.8**	J	6.9	0.59	ug/kg dry	1.00	11/25/09 15:33	PQ	9K25015	8260B
cis-1,2-Dichloroethene	**420**	E	6.9	0.34	ug/kg dry	1.00	11/25/09 15:33	PQ	9K25015	8260B
Methylene Chloride	**11**	B	6.9	1.4	ug/kg dry	1.00	11/25/09 15:33	PQ	9K25015	8260B
trans-1,2-Dichloroethene	**11**		6.9	0.71	ug/kg dry	1.00	11/25/09 15:33	PQ	9K25015	8260B
Trichloroethene	**93**		6.9	0.47	ug/kg dry	1.00	11/25/09 15:33	PQ	9K25015	8260B
Vinyl chloride	**12**	J	14	0.84	ug/kg dry	1.00	11/25/09 15:33	PQ	9K25015	8260B

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0711

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/13/09
Reported: 12/11/09 16:56

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GP-3A (2-4) (RSK0711-02 - Solid) - cont.						**Sampled: 11/13/09 10:45**		**Recvd: 11/13/09 16:00**		
Semivolatile Organics by GC/MS										
2-Methylnaphthalene	**170**	D10,J	2400	28	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Anthracene	**120**	D10,J	2400	60	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Benzo(a)anthracene	**560**	D10,J	2400	40	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Benzo(a)pyrene	**410**	D10,J	2400	56	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Benzo(b)fluoranthene	**680**	D10,J	2400	45	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Benzo(ghi)perylene	**330**	D10,J	2400	28	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Benzo(k)fluoranthene	**240**	D10,J	2400	26	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Chrysene	**610**	D10,J	2400	23	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Dibenzofuran	**100**	D10,J	2400	24	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Fluoranthene	**950**	D10,J	2400	34	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Indeno(1,2,3-cd)pyrene	**290**	D10,J	2400	65	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Naphthalene	**100**	D10,J	2400	39	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Phenanthrene	**490**	D10,J	2400	49	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Pyrene	**850**	D10,J	2400	15	ug/kg dry	10.0	11/19/09 14:48	MAF	9K13100	8270C
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDT	**4.1**		2.3	0.52	ug/kg dry	1.00	11/18/09 21:53	MAN	9K15016	8081A
delta-BHC	**1.5**	J	2.3	0.30	ug/kg dry	1.00	11/18/09 21:53	MAN	9K15016	8081A
Endosulfan II	**0.45**	J	2.3	0.41	ug/kg dry	1.00	11/18/09 21:53	MAN	9K15016	8081A
Endrin	**4.3**		2.3	0.74	ug/kg dry	1.00	11/18/09 21:53	MAN	9K15016	8081A
Total Metals by SW 846 Series Methods										
Aluminum	**8780**		14.2	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Arsenic	**9.2**		2.8	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Barium	**119**		0.708	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Beryllium	**0.777**		0.283	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Calcium	**32600**		70.8	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Chromium	**10.7**		0.708	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Cobalt	**6.95**		0.708	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Copper	**44.5**		1.4	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Iron	**26200**		14.2	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Lead	**48.0**		1.4	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Magnesium	**9750**		28.3	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Manganese	**708**		0.3	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Nickel	**17.6**		7.08	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Potassium	**898**		42.5	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Vanadium	**16.4**		0.708	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Zinc	**77.9**		2.8	NR	mg/kg dry	1.00	11/18/09 04:57	LMH	9K16078	6010B
Mercury	**0.0522**		0.0287	NR	mg/kg dry	1.00	11/19/09 18:43	MXM	9K19050	7471A
General Chemistry Parameters										
Percent Solids	**71**		0.010	NR	%	1.00	11/14/09 18:46	JR	9K14006	Dry Weight
Client ID: GP-3A (2-4) (RSK0711-02RE1 - Solid)						**Sampled: 11/13/09 10:45**		**Recvd: 11/13/09 16:00**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethene	**1400**	H, D08, W1, N1	680	83	ug/kg dry	5.00	11/30/09 13:02	RJ	9K27033	8260B

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0711

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/13/09
Reported: 12/11/09 16:56

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GP-3A (2-4) (RSK0711-02RE1 - Solid) - cont.						**Sampled: 11/13/09 10:45**		**Recvd: 11/13/09 16:00**		
Volatile Organic Compounds by EPA 8260B - cont.										
cis-1,2-Dichloroethene	**47000**	H, D08, W1, N1	680	34	ug/kg dry	5.00	11/30/09 13:02	RJ	9K27033	8260B
Cyclohexane	**980**	H, D08, W1, N1	680	31	ug/kg dry	5.00	11/30/09 13:02	RJ	9K27033	8260B
Methylcyclohexane	**2500**	H, D08, W1, N1	680	44	ug/kg dry	5.00	11/30/09 13:02	RJ	9K27033	8260B
Toluene	**350**	H, D08, W1, N1,J	680	52	ug/kg dry	5.00	11/30/09 13:02	RJ	9K27033	8260B
trans-1,2-Dichloroethene	**1700**	H, D08, W1, N1	680	71	ug/kg dry	5.00	11/30/09 13:02	RJ	9K27033	8260B
Trichloroethene	**41000**	H, D08, W1, N1	680	46	ug/kg dry	5.00	11/30/09 13:02	RJ	9K27033	8260B
Vinyl chloride	**800**	H, D08, W1, N1,J	1400	83	ug/kg dry	5.00	11/30/09 13:02	RJ	9K27033	8260B
Xylenes, total	**1000**	H, D08, W1, N1,J	1400	110	ug/kg dry	5.00	11/30/09 13:02	RJ	9K27033	8260B
Client ID: GP-3A (8-10) (RSK0711-04 - Solid)						**Sampled: 11/13/09 10:50**		**Recvd: 11/13/09 16:00**		
Volatile Organic Compounds by EPA 8260B										
Acetone	**20**	J	29	1.3	ug/kg dry	1.00	11/25/09 16:23	PQ	9K25015	8260B
Carbon disulfide	**2.4**	J	5.8	0.50	ug/kg dry	1.00	11/25/09 16:23	PQ	9K25015	8260B
cis-1,2-Dichloroethene	**1000**	E	5.8	0.29	ug/kg dry	1.00	11/25/09 16:23	PQ	9K25015	8260B
Methylene Chloride	**6.0**	B	5.8	1.2	ug/kg dry	1.00	11/25/09 16:23	PQ	9K25015	8260B
Tetrachloroethene	**7.1**		5.8	0.78	ug/kg dry	1.00	11/25/09 16:23	PQ	9K25015	8260B
Toluene	**3.8**	J	5.8	0.44	ug/kg dry	1.00	11/25/09 16:23	PQ	9K25015	8260B
trans-1,2-Dichloroethene	**8.5**		5.8	0.60	ug/kg dry	1.00	11/25/09 16:23	PQ	9K25015	8260B
Trichloroethene	**3600**	E	5.8	0.40	ug/kg dry	1.00	11/25/09 16:23	PQ	9K25015	8260B
General Chemistry Parameters										
Percent Solids	**83**		0.010	NR	%	1.00	11/21/09 13:51	JR	9K21006	Dry Weight
Client ID: GP-3A (8-10) (RSK0711-04RE1 - Solid)						**Sampled: 11/13/09 10:50**		**Recvd: 11/13/09 16:00**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**1700**	D08, W1	600	30	ug/kg dry	5.00	11/27/09 14:54	DHC	9K25095	8260B
Trichloroethene	**49000**	D08, W1	600	41	ug/kg dry	5.00	11/27/09 14:54	DHC	9K25095	8260B
Client ID: TRIP BLANK 11132009 (RSK0711-06 - Water)						**Sampled: 11/13/09**		**Recvd: 11/13/09 16:00**		
Volatile Organic Compounds by EPA 8260B										
Cyclohexane	**2.2**		1.0	0.53	ug/L	1.00	11/25/09 13:00	PQ	9K25017	8260B
Methylene Chloride	**2.3**	B	1.0	0.44	ug/L	1.00	11/25/09 13:00	PQ	9K25017	8260B
Toluene	**3.0**		1.0	0.51	ug/L	1.00	11/25/09 13:00	PQ	9K25017	8260B

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New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0443

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/07/09-11/13/09
Reported: 12/11/09 15:37

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GP--14 (2-4) (RSK0669-01 - Solid)						**Sampled: 11/12/09 08:05**		**Recvd: 11/13/09 09:10**		
Volatile Organic Compounds by EPA 8260B										
Carbon disulfide	**1.2**	J	5.1	0.44	ug/kg dry	1.00	11/20/09 14:42	PQ	9K20029	8260B
cis-1,2-Dichloroethene	**14**		5.1	0.25	ug/kg dry	1.00	11/20/09 14:42	PQ	9K20029	8260B
Methylene Chloride	**3.2**	J, B	5.1	1.0	ug/kg dry	1.00	11/20/09 14:42	PQ	9K20029	8260B
Trichloroethene	**31**		5.1	0.35	ug/kg dry	1.00	11/20/09 14:42	PQ	9K20029	8260B
Semivolatile Organics by GC/MS										
2-Methylnaphthalene	**94**	D10,J	1800	21	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Acenaphthene	**84**	D10,J	1800	21	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Acenaphthylene	**150**	D10,J	1800	14	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Anthracene	**220**	D10,J	1800	45	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Benzo(a)anthracene	**750**	D10,J	1800	30	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Benzo(a)pyrene	**670**	D10,J	1800	43	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Benzo(b)fluoranthene	**1300**	D10,ID4, J	1800	34	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Benzo(ghi)perylene	**570**	D10,J	1800	21	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Chrysene	**800**	D10,J	1800	18	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Dibenzofuran	**120**	D10,J	1800	18	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Fluoranthene	**1500**	D10,J	1800	26	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Fluorene	**98**	D10,J	1800	41	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Indeno(1,2,3-cd)pyrene	**520**	D10,J	1800	49	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Naphthalene	**110**	D10,J	1800	29	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Phenanthrene	**840**	D10,J	1800	37	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Pyrene	**1300**	D10,J	1800	11	ug/kg dry	10.0	11/19/09 12:48	MAF	9K13100	8270C
Total Metals by SW 846 Series Methods										
Aluminum	**5020**		11.1	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Arsenic	**9.2**		2.2	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Barium	**46.4**		0.554	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Beryllium	**0.368**		0.222	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Calcium	**48100**		55.4	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Chromium	**6.37**		0.554	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Cobalt	**5.30**		0.554	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Copper	**35.3**		1.1	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Iron	**18400**		11.1	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Lead	**24.9**		1.1	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Magnesium	**14600**		22.2	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Manganese	**931**		0.2	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Nickel	**11.6**		5.54	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Potassium	**664**		33.3	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Vanadium	**9.74**		0.554	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Zinc	**52.2**		2.2	NR	mg/kg dry	1.00	11/18/09 03:55	LMH	9K16078	6010B
Mercury	**0.0462**		0.0225	NR	mg/kg dry	1.00	11/17/09 19:25	MXM	9K16053	7471A
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	11/14/09 16:16	JR	9K14006	Dry Weight

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New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0443

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/07/09-11/13/09
Reported: 12/11/09 15:37

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GP-15 (16-18) (RSK0669-06 - Solid)					**Sampled: 11/12/09 10:20**			**Recvd: 11/13/09 09:10**		
Volatile Organic Compounds by EPA 8260B										
Acetone	**30**	J	31	1.4	ug/kg dry	1.00	11/20/09 16:48	PQ	9K20029	8260B
Methylene Chloride	**7.4**	B	6.2	1.2	ug/kg dry	1.00	11/20/09 16:48	PQ	9K20029	8260B
General Chemistry Parameters										
Percent Solids	**80**		0.010	NR	%	1.00	11/21/09 13:43	JR	9K21006	Dry Weight
Client ID: GP-17 (12-14) (RSK0669-07 - Solid)					**Sampled: 11/12/09 11:10**			**Recvd: 11/13/09 09:10**		
Volatile Organic Compounds by EPA 8260B										
Acetone	**11**	J	31	1.4	ug/kg dry	1.00	11/20/09 17:13	PQ	9K20029	8260B
Methylene Chloride	**3.3**	J, B	6.1	1.2	ug/kg dry	1.00	11/20/09 17:13	PQ	9K20029	8260B
General Chemistry Parameters										
Percent Solids	**81**		0.010	NR	%	1.00	11/21/09 13:45	JR	9K21006	Dry Weight
Client ID: GP-18 (10-12) (RSK0669-08 - Solid)					**Sampled: 11/12/09 13:55**			**Recvd: 11/13/09 09:10**		
Volatile Organic Compounds by EPA 8260B										
Acetone	**8.9**	J	31	1.4	ug/kg dry	1.00	11/20/09 17:39	PQ	9K20029	8260B
Methylene Chloride	**4.1**	J, B	6.3	1.2	ug/kg dry	1.00	11/20/09 17:39	PQ	9K20029	8260B
General Chemistry Parameters										
Percent Solids	**77**		0.010	NR	%	1.00	11/21/09 13:47	JR	9K21006	Dry Weight
Client ID: GP-19 (10-12) (RSK0669-09 - Solid)					**Sampled: 11/12/09 14:20**			**Recvd: 11/13/09 09:10**		
Volatile Organic Compounds by EPA 8260B										
Acetone	**13**	J	30	1.3	ug/kg dry	1.00	11/20/09 18:04	PQ	9K20029	8260B
Methylene Chloride	**5.4**	J, B	6.0	1.2	ug/kg dry	1.00	11/20/09 18:04	PQ	9K20029	8260B
General Chemistry Parameters										
Percent Solids	**83**		0.010	NR	%	1.00	11/21/09 13:49	JR	9K21006	Dry Weight
Client ID: GP-2(8-10) (RSK0443-02 - Solid)					**Sampled: 11/05/09 11:10**			**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethene	**6.2**		5.7	0.70	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
Acetone	**6.5**	J	29	1.3	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
Carbon disulfide	**4.9**	J	5.7	0.49	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
cis-1,2-Dichloroethene	**3700**	E	5.7	0.28	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
Ethylbenzene	**6.5**		5.7	0.40	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
Methylene Chloride	**5.3**	J, B	5.7	1.1	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
Tetrachloroethene	**89**		5.7	0.77	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
Toluene	**2.5**	J	5.7	0.43	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
trans-1,2-Dichloroethene	**65**		5.7	0.59	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
Trichloroethene	**5500**	E	5.7	0.40	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
Vinyl chloride	**31**		11	0.70	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
Xylenes, total	**25**		11	0.96	ug/kg dry	1.00	11/12/09 02:33	CDC	9K11106	8260B
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	11/18/09 15:40	JRR	9K18036	Dry Weight

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New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0443

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/07/09-11/13/09
Reported: 12/11/09 15:37

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GP-2(8-10) (RSK0443-02RE1 - Solid)						**Sampled: 11/05/09 11:10**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**4700**	W1, D08	1100	53	ug/kg dry	10.0	11/19/09 16:15	DHC	9K16042	8260B
Tetrachloroethene	**1600**	W1, D08	1100	140	ug/kg dry	10.0	11/19/09 16:15	DHC	9K16042	8260B
Trichloroethene	**49000**	W1, D08	1100	72	ug/kg dry	10.0	11/19/09 16:15	DHC	9K16042	8260B
Client ID: GP-3(10-12) (RSK0443-03 - Solid)						**Sampled: 11/05/09 11:35**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethene	**4.5**	J	5.8	0.72	ug/kg dry	1.00	11/12/09 02:59	CDC	9K11106	8260B
Acetone	**9.1**	J	29	1.3	ug/kg dry	1.00	11/12/09 02:59	CDC	9K11106	8260B
Carbon disulfide	**2.3**	J	5.8	0.50	ug/kg dry	1.00	11/12/09 02:59	CDC	9K11106	8260B
cis-1,2-Dichloroethene	**1700**	E	5.8	0.29	ug/kg dry	1.00	11/12/09 02:59	CDC	9K11106	8260B
Methylene Chloride	**5.0**	J, B	5.8	1.2	ug/kg dry	1.00	11/12/09 02:59	CDC	9K11106	8260B
Toluene	**2.2**	J	5.8	0.44	ug/kg dry	1.00	11/12/09 02:59	CDC	9K11106	8260B
trans-1,2-Dichloroethene	**13**		5.8	0.60	ug/kg dry	1.00	11/12/09 02:59	CDC	9K11106	8260B
Trichloroethene	**5300**	E	5.8	0.40	ug/kg dry	1.00	11/12/09 02:59	CDC	9K11106	8260B
Vinyl chloride	**58**		12	0.71	ug/kg dry	1.00	11/12/09 02:59	CDC	9K11106	8260B
General Chemistry Parameters										
Percent Solids	**86**		0.010	NR	%	1.00	11/18/09 15:42	JRR	9K18036	Dry Weight
Client ID: GP-3(10-12) (RSK0443-03RE1 - Solid)						**Sampled: 11/05/09 11:35**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**1300**	W1, D08	420	21	ug/kg dry	4.00	11/17/09 12:35	TRB	9K16042	8260B
Trichloroethene	**39000**	W1, D08	420	29	ug/kg dry	4.00	11/17/09 12:35	TRB	9K16042	8260B
Client ID: GP-4(10-12) (RSK0443-06 - Solid)						**Sampled: 11/05/09 13:05**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
Acetone	**9.9**	J	29	1.3	ug/kg dry	1.00	11/12/09 04:16	CDC	9K11106	8260B
cis-1,2-Dichloroethene	**68**		5.8	0.28	ug/kg dry	1.00	11/12/09 04:16	CDC	9K11106	8260B
Methylene Chloride	**6.0**	B	5.8	1.1	ug/kg dry	1.00	11/12/09 04:16	CDC	9K11106	8260B
trans-1,2-Dichloroethene	**2.0**	J	5.8	0.60	ug/kg dry	1.00	11/12/09 04:16	CDC	9K11106	8260B
Trichloroethene	**400**	E	5.8	0.40	ug/kg dry	1.00	11/12/09 04:16	CDC	9K11106	8260B
Vinyl chloride	**10**	J	12	0.70	ug/kg dry	1.00	11/12/09 04:16	CDC	9K11106	8260B
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	11/18/09 15:44	JRR	9K18036	Dry Weight
Client ID: GP-4(10-12) (RSK0443-06RE1 - Solid)						**Sampled: 11/05/09 13:05**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
2-Butanone	**280**	W1,J, B	530	38	ug/kg dry	1.00	11/17/09 13:45	TRB	9K16042	8260B
cis-1,2-Dichloroethene	**60**	W1,J	110	5.3	ug/kg dry	1.00	11/17/09 13:45	TRB	9K16042	8260B
Trichloroethene	**1600**	W1	110	7.2	ug/kg dry	1.00	11/17/09 13:45	TRB	9K16042	8260B
Client ID: GP-5(8-10) (RSK0443-07 - Solid)						**Sampled: 11/05/09 14:25**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethene	**6.3**		6.0	0.73	ug/kg dry	1.00	11/12/09 04:42	CDC	9K11106	8260B
Acetone	**10**	J	30	1.3	ug/kg dry	1.00	11/12/09 04:42	CDC	9K11106	8260B

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0443

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/07/09-11/13/09
Reported: 12/11/09 15:37

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GP-5(8-10) (RSK0443-07 - Solid) - cont.						**Sampled: 11/05/09 14:25**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B - cont.										
cis-1,2-Dichloroethene	**2900**	E	6.0	0.29	ug/kg dry	1.00	11/12/09 04:42	CDC	9K11106	8260B
Methylene Chloride	**5.4**	J, B	6.0	1.2	ug/kg dry	1.00	11/12/09 04:42	CDC	9K11106	8260B
trans-1,2-Dichloroethene	**27**		6.0	0.62	ug/kg dry	1.00	11/12/09 04:42	CDC	9K11106	8260B
Trichloroethene	**5100**	E	6.0	0.41	ug/kg dry	1.00	11/12/09 04:42	CDC	9K11106	8260B
Vinyl chloride	**110**		12	0.73	ug/kg dry	1.00	11/12/09 04:42	CDC	9K11106	8260B
General Chemistry Parameters										
Percent Solids	**83**		0.010	NR	%	1.00	11/18/09 15:46	JRR	9K18036	Dry Weight
Client ID: GP-5(8-10) (RSK0443-07RE1 - Solid)						**Sampled: 11/05/09 14:25**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**4400**	W1, D08	430	22	ug/kg dry	4.00	11/17/09 14:09	TRB	9K16042	8260B
Trichloroethene	**20000**	W1, D08	430	29	ug/kg dry	4.00	11/17/09 14:09	TRB	9K16042	8260B
Client ID: GP-6(12-14) (RSK0443-08 - Solid)						**Sampled: 11/05/09 15:25**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethene	**3.8**	J	6.3	0.77	ug/kg dry	1.00	11/12/09 05:07	CDC	9K11106	8260B
Acetone	**7.0**	J	31	1.4	ug/kg dry	1.00	11/12/09 05:07	CDC	9K11106	8260B
Carbon disulfide	**2.0**	J	6.3	0.54	ug/kg dry	1.00	11/12/09 05:07	CDC	9K11106	8260B
cis-1,2-Dichloroethene	**1400**	E	6.3	0.31	ug/kg dry	1.00	11/12/09 05:07	CDC	9K11106	8260B
Methylene Chloride	**5.2**	J, B	6.3	1.2	ug/kg dry	1.00	11/12/09 05:07	CDC	9K11106	8260B
trans-1,2-Dichloroethene	**15**		6.3	0.65	ug/kg dry	1.00	11/12/09 05:07	CDC	9K11106	8260B
Trichloroethene	**4800**	E	6.3	0.43	ug/kg dry	1.00	11/12/09 05:07	CDC	9K11106	8260B
Vinyl chloride	**140**		13	0.77	ug/kg dry	1.00	11/12/09 05:07	CDC	9K11106	8260B
General Chemistry Parameters										
Percent Solids	**79**		0.010	NR	%	1.00	11/18/09 15:48	JRR	9K18036	Dry Weight
Client ID: GP-6(12-14) (RSK0443-08RE1 - Solid)						**Sampled: 11/05/09 15:25**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**3200**	W1, D08	480	24	ug/kg dry	4.00	11/17/09 14:32	TRB	9K16042	8260B
Trichloroethene	**41000**	W1, D08	480	33	ug/kg dry	4.00	11/17/09 14:32	TRB	9K16042	8260B
Client ID: GP-7 (6-8) (RSK0564-03 - Solid)						**Sampled: 11/09/09 11:05**		**Recvd: 11/11/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
Methylene Chloride	**4.9**	J	6.1	1.2	ug/kg dry	1.00	11/17/09 16:42	PQ	9K17034	8260B
General Chemistry Parameters										
Percent Solids	**80**		0.010	NR	%	1.00	11/21/09 13:25	JR	9K21006	Dry Weight
Client ID: GP-8 (8-10) (RSK0564-04 - Solid)						**Sampled: 11/09/09 12:25**		**Recvd: 11/11/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
Methylene Chloride	**8.9**		5.8	1.1	ug/kg dry	1.00	11/17/09 04:39	CDC	9K16105	8260B
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	11/21/09 13:27	JR	9K21006	Dry Weight

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New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0443

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/07/09-11/13/09
Reported: 12/11/09 15:37

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GP-9 (2-4) (RSK0564-01 - Solid)						**Sampled: 11/09/09 12:45**		**Recvd: 11/11/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
2-Butanone	**8.3**	J	30	2.2	ug/kg dry	1.00	11/17/09 03:22	CDC	9K16105	8260B
Acetone	**27**	J	30	1.3	ug/kg dry	1.00	11/17/09 03:22	CDC	9K16105	8260B
Methylene Chloride	**7.3**		6.0	1.2	ug/kg dry	1.00	11/17/09 03:22	CDC	9K16105	8260B
Total Metals by SW 846 Series Methods										
Aluminum	**6260**		11.8	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Arsenic	**10.7**		2.4	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Barium	**35.3**		0.589	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Beryllium	**0.290**		0.236	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Calcium	**1750**		58.9	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Chromium	**8.34**		0.589	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Cobalt	**5.98**		0.589	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Copper	**19.2**		1.2	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Iron	**15900**		11.8	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Lead	**10.5**		1.2	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Magnesium	**2160**		23.6	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Manganese	**236**		0.2	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Nickel	**14.9**		5.89	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Potassium	**562**		35.3	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Vanadium	**11.6**		0.589	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Zinc	**41.8**		2.4	NR	mg/kg dry	1.00	11/17/09 13:55	LMH	9K16028	6010B
Mercury	**0.0333**		0.0232	NR	mg/kg dry	1.00	11/17/09 18:59	MXM	9K16053	7471A
General Chemistry Parameters										
Percent Solids	**81**		0.010	NR	%	1.00	11/12/09 14:30	CxM	9K12070	Dry Weight
Client ID: GP-9A (10-12) (RSK0564-02 - Solid)						**Sampled: 11/09/09 13:40**		**Recvd: 11/11/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
Methylene Chloride	**3.5**	J	5.9	1.2	ug/kg dry	1.00	11/17/09 03:47	CDC	9K16105	8260B
Total Metals by SW 846 Series Methods										
Aluminum	**8840**		12.3	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Arsenic	**11.5**		2.5	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Barium	**43.7**		0.615	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Beryllium	**0.432**		0.246	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Calcium	**24700**		61.5	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Chromium	**12.6**		0.615	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Cobalt	**10.4**		0.615	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Copper	**22.3**		1.2	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Iron	**23800**		12.3	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Lead	**11.4**		1.2	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Magnesium	**9430**		24.6	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Manganese	**395**		0.2	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Nickel	**24.0**		6.15	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Potassium	**1480**		36.9	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B

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New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0443

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/07/09-11/13/09
Reported: 12/11/09 15:37

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GP-9A (10-12) (RSK0564-02 - Solid) - cont.					**Sampled: 11/09/09 13:40**			**Recvd: 11/11/09 09:00**		
Total Metals by SW 846 Series Methods - cont.										
Vanadium	**13.8**		0.615	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
Zinc	**53.7**		2.5	NR	mg/kg dry	1.00	11/17/09 14:00	LMH	9K16028	6010B
General Chemistry Parameters										
Percent Solids	**82**		0.010	NR	%	1.00	11/12/09 14:32	CxM	9K12070	Dry Weight
Client ID: TRIP BLANK 110909 (RSK0564-06 - Water)					**Sampled: 11/09/09**			**Recvd: 11/11/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
Cyclohexane	**1.4**		1.0	0.53	ug/L	1.00	11/16/09 21:50	CDC	9K16110	8260B
Toluene	**2.1**		1.0	0.51	ug/L	1.00	11/16/09 21:50	CDC	9K16110	8260B
Client ID: TRIP BLANK 11122009 (RSK0669-10 - Water)					**Sampled: 11/12/09**			**Recvd: 11/13/09 09:10**		
Volatile Organic Compounds by EPA 8260B										
Cyclohexane	**1.8**		1.0	0.53	ug/L	1.00	11/20/09 14:16	PQ	9K20035	8260B
Methylene Chloride	**3.4**	B	1.0	0.44	ug/L	1.00	11/20/09 14:16	PQ	9K20035	8260B
Toluene	**1.5**		1.0	0.51	ug/L	1.00	11/20/09 14:16	PQ	9K20035	8260B
Client ID: TRIP BLANK (RSK0443-09 - Water)					**Sampled: 11/05/09**			**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
Methylene Chloride	**2.8**		1.0	0.44	ug/L	1.00	11/12/09 14:05	PQ	9K12044	8260B

Groundwater Analytical Results

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSL0546

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 12/10/09-12/15/09
Reported: 01/11/10 17:35

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GPW14-1440 (RSL0546-07 - Water)						**Sampled: 12/08/09 14:40**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**5.9**	P11, S13, P-HS	1.0	0.38	ug/L	1.00	12/20/09 17:25	NMD	9L19019	8260B
Trichloroethene	**0.57**	P11, S13, P-HS,J	1.0	0.46	ug/L	1.00	12/20/09 17:25	NMD	9L19019	8260B
Vinyl chloride	**1.8**	P11, S13, P-HS	1.0	0.24	ug/L	1.00	12/20/09 17:25	NMD	9L19019	8260B
Client ID: GPW17-1145 (RSL0546-14 - Water)						**Sampled: 12/09/09 11:45**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
Toluene	**0.51**	J	1.0	0.51	ug/L	1.00	12/19/09 20:10	TRB	9L19018	8260B
Total Metals by SW 846 Series Methods										
Aluminum	**12.9**		0.200	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Arsenic	**0.0158**		0.0100	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Barium	**0.365**		0.0020	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Calcium	**543**		0.5	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Chromium	**0.0148**		0.0040	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Cobalt	**0.0157**		0.0040	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Copper	**0.0211**		0.0100	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Iron	**18.3**		0.050	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Lead	**0.0123**		0.0050	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Magnesium	**91.5**		0.200	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Manganese	**2.11**		0.0030	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Nickel	**0.0364**		0.0100	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Potassium	**7.44**		0.500	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Sodium	**44.3**		1.0	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Vanadium	**0.0218**		0.0050	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Zinc	**0.0484**		0.0100	NR	mg/L	1.00	12/16/09 02:04	AMH	9L14051	6010B
Dissolved Metals by SW 846 Series Methods										
Arsenic	**0.0164**	P7	0.0100	NR	mg/L	1.00	12/16/09 00:21	LMH	9L14025	6010B
Barium	**0.120**	P7	0.0020	NR	mg/L	1.00	12/16/09 00:21	LMH	9L14025	6010B
Calcium	**214**	P7	0.5	NR	mg/L	1.00	12/16/09 00:21	LMH	9L14025	6010B
Magnesium	**75.2**	P7	0.200	NR	mg/L	1.00	12/16/09 00:21	LMH	9L14025	6010B
Manganese	**0.310**	P7	0.0030	NR	mg/L	1.00	12/16/09 00:21	LMH	9L14025	6010B
Potassium	**1.61**	P7	0.500	NR	mg/L	1.00	12/16/09 00:21	LMH	9L14025	6010B
Sodium	**39.5**	P7	1.0	NR	mg/L	1.00	12/16/09 00:21	LMH	9L14025	6010B

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSL0546

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 12/10/09-12/15/09
Reported: 01/11/10 17:35

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GPW18-0830 (RSL0546-08 - Water)						**Sampled: 12/09/09 08:30**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
Acetone	**15**	P11	5.0	1.3	ug/L	1.00	12/19/09 17:52	TRB	9L19018	8260B
cis-1,2-Dichloroethene	**0.85**	P11,J	1.0	0.38	ug/L	1.00	12/19/09 17:52	TRB	9L19018	8260B
Trichloroethene	**0.98**	P11,J	1.0	0.46	ug/L	1.00	12/19/09 17:52	TRB	9L19018	8260B
Client ID: GPW20-0900 (RSL0546-09 - Water)						**Sampled: 12/09/09 09:00**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
Trichloroethene	**0.72**	S13, P11,J	1.0	0.46	ug/L	1.00	12/19/09 18:15	TRB	9L19018	8260B
Client ID: GPW2-0905 (RSL0546-01 - Water)						**Sampled: 12/08/09 09:05**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethane	**1.7**		1.0	0.38	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
1,1-Dichloroethene	**25**		1.0	0.29	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
Benzene	**0.61**	J	1.0	0.41	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
Chloroethane	**5.7**		1.0	0.32	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
cis-1,2-Dichloroethene	**3700**	E	1.0	0.38	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
Ethylbenzene	**2.4**		1.0	0.18	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
Tetrachloroethene	**12**		1.0	0.36	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
Toluene	**7.4**		1.0	0.51	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
trans-1,2-Dichloroethene	**330**	E	1.0	0.42	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
Trichloroethene	**5300**	E	1.0	0.46	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
Vinyl chloride	**450**	E	1.0	0.24	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
Xylenes, total	**8.2**		2.0	0.66	ug/L	1.00	12/19/09 15:10	TRB	9L19018	8260B
Client ID: GPW2-0905 (RSL0546-01RE1 - Water)						**Sampled: 12/08/09 09:05**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**26000**	D08	400	150	ug/L	400	12/20/09 15:52	NMD	9L19019	8260B
trans-1,2-Dichloroethene	**330**	D08,J	400	170	ug/L	400	12/20/09 15:52	NMD	9L19019	8260B
Trichloroethene	**39000**	D08	400	180	ug/L	400	12/20/09 15:52	NMD	9L19019	8260B
Vinyl chloride	**530**	D08	400	97	ug/L	400	12/20/09 15:52	NMD	9L19019	8260B
Client ID: GPW3-1015 (RSL0546-02 - Water)						**Sampled: 12/08/09 10:15**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
1,1,2-Trichloroethane	**3.0**		1.0	0.23	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
1,1-Dichloroethane	**0.71**	J	1.0	0.38	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
1,1-Dichloroethene	**44**		1.0	0.29	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
Benzene	**0.73**	J	1.0	0.41	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
Chloroethane	**9.1**		1.0	0.32	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
cis-1,2-Dichloroethene	**3100**	E	1.0	0.38	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
Tetrachloroethene	**8.4**		1.0	0.36	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
Toluene	**3.2**		1.0	0.51	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
trans-1,2-Dichloroethene	**150**	E	1.0	0.42	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
Trichloroethene	**5300**	E	1.0	0.46	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
Vinyl chloride	**1300**	E	1.0	0.24	ug/L	1.00	12/19/09 15:33	TRB	9L19018	8260B
Client ID: GPW3-1015 (RSL0546-02RE1 - Water)						**Sampled: 12/08/09 10:15**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSL0546

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 12/10/09-12/15/09
Reported: 01/11/10 17:35

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GPW3-1015 (RSL0546-02RE1 - Water) - cont.						**Sampled: 12/08/09 10:15**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B - cont.										
cis-1,2-Dichloroethene	**13000**	D08	400	150	ug/L	400	12/20/09 16:15	NMD	9L19019	8260B
Trichloroethene	**34000**	D08	400	180	ug/L	400	12/20/09 16:15	NMD	9L19019	8260B
Vinyl chloride	**1500**	D08	400	97	ug/L	400	12/20/09 16:15	NMD	9L19019	8260B
Client ID: GPW4-1145 (RSL0546-13 - Water)						**Sampled: 12/08/09 11:45**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**140**	E	1.0	0.38	ug/L	1.00	12/19/09 19:47	TRB	9L19018	8260B
trans-1,2-Dichloroethene	**3.4**		1.0	0.42	ug/L	1.00	12/19/09 19:47	TRB	9L19018	8260B
Trichloroethene	**100**	E	1.0	0.46	ug/L	1.00	12/19/09 19:47	TRB	9L19018	8260B
Vinyl chloride	**4.5**		1.0	0.24	ug/L	1.00	12/19/09 19:47	TRB	9L19018	8260B
Organochlorine Pesticides by EPA Method 8081A										
gamma-Chlordane [2C]	**0.012**	J	0.056	0.012	ug/L	1.00	12/14/09 15:16	MAN	9L10098	8081A
Total Metals by SW 846 Series Methods										
Aluminum	**3.07**		0.200	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Barium	**0.0887**		0.0020	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Calcium	**151**		0.5	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Chromium	**0.0045**		0.0040	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Iron	**5.55**		0.050	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Magnesium	**12.9**		0.200	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Manganese	**0.852**		0.0030	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Potassium	**2.95**		0.500	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Sodium	**15.8**		1.0	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Vanadium	**0.0058**		0.0050	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Zinc	**0.0276**		0.0100	NR	mg/L	1.00	12/16/09 01:59	AMH	9L14051	6010B
Dissolved Metals by SW 846 Series Methods										
Barium	**0.0682**	P7	0.0020	NR	mg/L	1.00	12/15/09 23:56	LMH	9L14025	6010B
Calcium	**143**	P7	0.5	NR	mg/L	1.00	12/15/09 23:56	LMH	9L14025	6010B
Magnesium	**11.2**	P7	0.200	NR	mg/L	1.00	12/15/09 23:56	LMH	9L14025	6010B
Manganese	**0.727**	P7	0.0030	NR	mg/L	1.00	12/15/09 23:56	LMH	9L14025	6010B
Potassium	**1.76**	P7	0.500	NR	mg/L	1.00	12/15/09 23:56	LMH	9L14025	6010B
Sodium	**16.3**	P7	1.0	NR	mg/L	1.00	12/15/09 23:56	LMH	9L14025	6010B
Client ID: GPW4-1145 (RSL0546-13RE1 - Water)						**Sampled: 12/08/09 11:45**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**150**	D08	2.0	0.77	ug/L	2.00	12/20/09 17:48	NMD	9L19019	8260B
trans-1,2-Dichloroethene	**3.3**	D08	2.0	0.84	ug/L	2.00	12/20/09 17:48	NMD	9L19019	8260B
Trichloroethene	**99**	D08	2.0	0.92	ug/L	2.00	12/20/09 17:48	NMD	9L19019	8260B
Vinyl chloride	**5.0**	D08	2.0	0.49	ug/L	2.00	12/20/09 17:48	NMD	9L19019	8260B
Client ID: GPW5-1340 (RSL0546-04 - Water)						**Sampled: 12/08/09 13:40**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethane	**5.2**		1.0	0.38	ug/L	1.00	12/19/09 16:20	TRB	9L19018	8260B
1,1-Dichloroethene	**38**		1.0	0.29	ug/L	1.00	12/19/09 16:20	TRB	9L19018	8260B

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSL0546

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 12/10/09-12/15/09
Reported: 01/11/10 17:35

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GPW5-1340 (RSL0546-04 - Water) - cont.						**Sampled: 12/08/09 13:40**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B - cont.										
1,2-Dichloroethane	**0.53**	J	1.0	0.21	ug/L	1.00	12/19/09 16:20	TRB	9L19018	8260B
Chloroethane	**3.9**		1.0	0.32	ug/L	1.00	12/19/09 16:20	TRB	9L19018	8260B
cis-1,2-Dichloroethene	**3200**	E	1.0	0.38	ug/L	1.00	12/19/09 16:20	TRB	9L19018	8260B
trans-1,2-Dichloroethene	**140**	E	1.0	0.42	ug/L	1.00	12/19/09 16:20	TRB	9L19018	8260B
Trichloroethene	**2300**	E	1.0	0.46	ug/L	1.00	12/19/09 16:20	TRB	9L19018	8260B
Vinyl chloride	**1500**	E	1.0	0.24	ug/L	1.00	12/19/09 16:20	TRB	9L19018	8260B
Client ID: GPW5-1340 (RSL0546-04RE1 - Water)						**Sampled: 12/08/09 13:40**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**15000**	D08	200	77	ug/L	200	12/21/09 12:52	LH	9L21018	8260B
trans-1,2-Dichloroethene	**110**	D08,J	200	84	ug/L	200	12/21/09 12:52	LH	9L21018	8260B
Trichloroethene	**4100**	D08	200	92	ug/L	200	12/21/09 12:52	LH	9L21018	8260B
Vinyl chloride	**1900**	D08	200	49	ug/L	200	12/21/09 12:52	LH	9L21018	8260B
Client ID: GPW6-1330 (RSL0664-01 - Water)						**Sampled: 12/14/09 13:30**		**Recvd: 12/15/09 12:20**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethene	**15**	S13, P11	1.0	0.29	ug/L	1.00	12/22/09 02:38	NMD	9L21096	8260B
cis-1,2-Dichloroethene	**2900**	S13, P11,E	1.0	0.38	ug/L	1.00	12/22/09 02:38	NMD	9L21096	8260B
Toluene	**1.2**	S13, P11	1.0	0.51	ug/L	1.00	12/22/09 02:38	NMD	9L21096	8260B
trans-1,2-Dichloroethene	**78**	S13, P11	1.0	0.42	ug/L	1.00	12/22/09 02:38	NMD	9L21096	8260B
Trichloroethene	**3300**	S13, P11,E	1.0	0.46	ug/L	1.00	12/22/09 02:38	NMD	9L21096	8260B
Vinyl chloride	**460**	S13, P11,E	1.0	0.24	ug/L	1.00	12/22/09 02:38	NMD	9L21096	8260B
Client ID: GPW6-1330 (RSL0664-01RE1 - Water)						**Sampled: 12/14/09 13:30**		**Recvd: 12/15/09 12:20**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**7000**	D08, P11, S13	120	48	ug/L	125	12/22/09 12:42	DHC	9L22007	8260B
Trichloroethene	**8800**	D08, P11, S13	120	57	ug/L	125	12/22/09 12:42	DHC	9L22007	8260B
Vinyl chloride	**350**	D08, P11, S13	120	30	ug/L	125	12/22/09 12:42	DHC	9L22007	8260B
Client ID: GPW8-1435 (RSL0546-12 - Water)						**Sampled: 12/09/09 14:35**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
Acetone	**4.1**	P11,J	5.0	1.3	ug/L	1.00	12/19/09 19:24	TRB	9L19018	8260B

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New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0443

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/07/09-11/13/09
Reported: 12/11/09 15:37

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GP-1(8-10) (RSK0443-01 - Solid)						**Sampled: 11/05/09 10:05**		**Recvd: 11/07/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
1,1-Dichloroethane	2.2	J	6.0	0.30	ug/kg dry	1.00	11/12/09 02:08	CDC	9K11106	8260B
Acetone	9.9	J	30	1.3	ug/kg dry	1.00	11/12/09 02:08	CDC	9K11106	8260B
cis-1,2-Dichloroethene	2.7	J	6.0	0.30	ug/kg dry	1.00	11/12/09 02:08	CDC	9K11106	8260B
Methylene Chloride	5.1	J, B	6.0	1.2	ug/kg dry	1.00	11/12/09 02:08	CDC	9K11106	8260B
Trichloroethene	150		6.0	0.42	ug/kg dry	1.00	11/12/09 02:08	CDC	9K11106	8260B
General Chemistry Parameters										
Percent Solids	82		0.010	NR	%	1.00	11/18/09 15:38	JRR	9K18036	Dry Weight
Client ID: GP-10 (10-12) (RSK0564-05 - Solid)						**Sampled: 11/09/09 15:05**		**Recvd: 11/11/09 09:00**		
Volatile Organic Compounds by EPA 8260B										
Methylene Chloride	1.9	J	5.7	1.1	ug/kg dry	1.00	11/17/09 17:07	PQ	9K17034	8260B
General Chemistry Parameters										
Percent Solids	84		0.010	NR	%	1.00	11/21/09 13:29	JR	9K21006	Dry Weight
Client ID: GP-11A (12-14) (RSK0669-02 - Solid)						**Sampled: 11/11/09 14:55**		**Recvd: 11/13/09 09:10**		
Volatile Organic Compounds by EPA 8260B										
Acetone	7.8	J	29	1.3	ug/kg dry	1.00	11/20/09 15:07	PQ	9K20029	8260B
Methylene Chloride	3.8	J, B	5.9	1.2	ug/kg dry	1.00	11/20/09 15:07	PQ	9K20029	8260B
General Chemistry Parameters										
Percent Solids	82		0.010	NR	%	1.00	11/21/09 13:35	JR	9K21006	Dry Weight
Client ID: GP-12 (12-14) (RSK0669-03 - Solid)						**Sampled: 11/11/09 15:55**		**Recvd: 11/13/09 09:10**		
Volatile Organic Compounds by EPA 8260B										
Acetone	10	J	30	1.3	ug/kg dry	1.00	11/20/09 15:32	PQ	9K20029	8260B
Methylene Chloride	3.5	J, B	6.0	1.2	ug/kg dry	1.00	11/20/09 15:32	PQ	9K20029	8260B
General Chemistry Parameters										
Percent Solids	79		0.010	NR	%	1.00	11/21/09 13:37	JR	9K21006	Dry Weight
Client ID: GP-13 (8-10) (RSK0669-04 - Solid)						**Sampled: 11/11/09 16:50**		**Recvd: 11/13/09 09:10**		
Volatile Organic Compounds by EPA 8260B										
Acetone	19	J	30	1.3	ug/kg dry	1.00	11/20/09 15:57	PQ	9K20029	8260B
Methylene Chloride	7.9	B	5.9	1.2	ug/kg dry	1.00	11/20/09 15:57	PQ	9K20029	8260B
General Chemistry Parameters										
Percent Solids	84		0.010	NR	%	1.00	11/21/09 13:39	JR	9K21006	Dry Weight
Client ID: GP-14 (12-14) (RSK0669-05 - Solid)						**Sampled: 11/12/09 08:10**		**Recvd: 11/13/09 09:10**		
Volatile Organic Compounds by EPA 8260B										
Acetone	18	J	29	1.3	ug/kg dry	1.00	11/20/09 16:23	PQ	9K20029	8260B
Methylene Chloride	7.4	B	5.8	1.1	ug/kg dry	1.00	11/20/09 16:23	PQ	9K20029	8260B
General Chemistry Parameters										
Percent Solids	84		0.010	NR	%	1.00	11/21/09 13:41	JR	9K21006	Dry Weight

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSL0546

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 12/10/09-12/15/09
Reported: 01/11/10 17:35

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: DRUMS WATER (RSL0546-15 - Water)						**Sampled: 12/09/09 15:30**		**Recvd: 12/10/09 10:05**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
1,1-Dichloroethene	**1.1**		1.0	0.29	ug/L	1.00	12/20/09 18:11	NMD	9L19019	8260B TCLP
Trichloroethene	**620**	E	1.0	0.46	ug/L	1.00	12/20/09 18:11	NMD	9L19019	8260B TCLP
Vinyl chloride	**33**		1.0	0.24	ug/L	1.00	12/20/09 18:11	NMD	9L19019	8260B TCLP
TCLP Metals										
Barium	**0.117**		0.0020	NR	mg/L	1.00	12/16/09 03:28	LMH	9L15032	6010B TCLP
General Chemistry Parameters										
Flashpoint	**>176**		50.0	50.0	°F	1.00	12/17/09 18:39	RJP	9L17107	1010
pH	**7.49**	HFT	NR	0.00	SU	1.00	12/10/09 21:59	JFR	9L10121	9040
Client ID: DRUMS WATER (RSL0546-15RE1 - Water)						**Sampled: 12/09/09 15:30**		**Recvd: 12/10/09 10:05**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
Trichloroethene	**630**	D08, P6	10	4.6	ug/L	10.0	12/21/09 13:15	LH	9L21018	8260B TCLP
Vinyl chloride	**35**	D08, P6	10	2.4	ug/L	10.0	12/21/09 13:15	LH	9L21018	8260B TCLP
Client ID: FD-120809 (RSL0546-03 - Water)						**Sampled: 12/08/09**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
1,1,2-Trichloroethane	**2.6**		1.0	0.23	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
1,1-Dichloroethane	**0.72**	J	1.0	0.38	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
1,1-Dichloroethene	**43**		1.0	0.29	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Benzene	**0.74**	J	1.0	0.41	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Chloroethane	**7.6**		1.0	0.32	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
cis-1,2-Dichloroethene	**3100**	E	1.0	0.38	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Tetrachloroethene	**8.5**		1.0	0.36	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Toluene	**3.3**		1.0	0.51	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
trans-1,2-Dichloroethene	**140**	E	1.0	0.42	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Trichloroethene	**5400**	E	1.0	0.46	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Vinyl chloride	**1300**	E	1.0	0.24	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Client ID: FD-120809 (RSL0546-03RE1 - Water)						**Sampled: 12/08/09**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**13000**	D08	400	150	ug/L	400	12/20/09 16:39	NMD	9L19019	8260B
Trichloroethene	**30000**	D08	400	180	ug/L	400	12/20/09 16:39	NMD	9L19019	8260B
Vinyl chloride	**1500**	D08	400	97	ug/L	400	12/20/09 16:39	NMD	9L19019	8260B
Client ID: GPW10-1230 (RSL0546-10 - Water)						**Sampled: 12/09/09 12:30**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
Methylcyclohexane	**0.56**	J	1.0	0.50	ug/L	1.00	12/19/09 18:38	TRB	9L19018	8260B
Toluene	**0.54**	J	1.0	0.51	ug/L	1.00	12/19/09 18:38	TRB	9L19018	8260B
Trichloroethene	**0.60**	J	1.0	0.46	ug/L	1.00	12/19/09 18:38	TRB	9L19018	8260B
Client ID: GPW13-1430 (RSL0664-02 - Water)						**Sampled: 12/14/09 14:30**		**Recvd: 12/15/09 12:20**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**1.2**	S13, P11	1.0	0.38	ug/L	1.00	12/22/09 13:07	DHC	9L22007	8260B
Trichloroethene	**1.3**	S13, P11	1.0	0.46	ug/L	1.00	12/22/09 13:07	DHC	9L22007	8260B

Waste Characterization Results

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSK0711

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 11/13/09
Reported: 12/11/09 16:56

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: DRUMS 111309 (RSK0711-05 - Solid)					**Sampled: 11/13/09 12:00**			**Recvd: 11/13/09 16:00**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
Trichloroethene	**200**	D07	10	4.6	ug/L	10.0	11/23/09 12:01	RJ	9K20071	8260B TCLP
TCLP Metals										
Barium	**0.560**	B1, B	0.0020	NR	mg/L	1.00	11/18/09 09:14	LMH	9K17032	6010B TCLP
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	11/16/09 19:28	JRR	9K16084	Dry Weight
pH	**7.79**		NR	NR	SU	1.00	11/17/09 12:55	RJP	9K17061	9045
Client ID: GP-20 (8-10) (RSK0711-01 - Solid)					**Sampled: 11/13/09 07:50**			**Recvd: 11/13/09 16:00**		
Volatile Organic Compounds by EPA 8260B										
Acetone	**19**	J	31	1.4	ug/kg dry	1.00	11/25/09 15:07	PQ	9K25015	8260B
Methylene Chloride	**4.2**	B, J	6.1	1.2	ug/kg dry	1.00	11/25/09 15:07	PQ	9K25015	8260B
Total Metals by SW 846 Series Methods										
Aluminum	**8820**		12.1	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Arsenic	**6.3**		2.4	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Barium	**41.1**		0.603	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Beryllium	**0.409**		0.241	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Calcium	**23400**		60.3	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Chromium	**12.6**		0.603	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Cobalt	**8.67**		0.603	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Copper	**22.5**		1.2	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Iron	**20500**		12.1	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Lead	**10.6**		1.2	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Magnesium	**10900**		24.1	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Manganese	**326**		0.2	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Nickel	**21.6**		6.03	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Potassium	**1360**		36.2	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Vanadium	**15.3**		0.603	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
Zinc	**59.9**		2.4	NR	mg/kg dry	1.00	11/18/09 04:52	LMH	9K16078	6010B
General Chemistry Parameters										
Percent Solids	**79**		0.010	NR	%	1.00	11/14/09 18:44	JR	9K14006	Dry Weight

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

New York State D.E.C. - Buffalo, NY
270 Michigan Avenue
Buffalo, NY 14203

SDG Number: RSL0546

Project: Standard Portable: Site# C907030
Project Number: 118071

Received: 12/10/09-12/15/09
Reported: 01/11/10 17:35

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: DRUMS WATER (RSL0546-15 - Water)						**Sampled: 12/09/09 15:30**		**Recvd: 12/10/09 10:05**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
1,1-Dichloroethene	**1.1**		1.0	0.29	ug/L	1.00	12/20/09 18:11	NMD	9L19019	8260B TCLP
Trichloroethene	**620**	E	1.0	0.46	ug/L	1.00	12/20/09 18:11	NMD	9L19019	8260B TCLP
Vinyl chloride	**33**		1.0	0.24	ug/L	1.00	12/20/09 18:11	NMD	9L19019	8260B TCLP
TCLP Metals										
Barium	**0.117**		0.0020	NR	mg/L	1.00	12/16/09 03:28	LMH	9L15032	6010B TCLP
General Chemistry Parameters										
Flashpoint	**>176**		50.0	50.0	°F	1.00	12/17/09 18:39	RJP	9L17107	1010
pH	**7.49**	HFT	NR	0.00	SU	1.00	12/10/09 21:59	JFR	9L10121	9040
Client ID: DRUMS WATER (RSL0546-15RE1 - Water)						**Sampled: 12/09/09 15:30**		**Recvd: 12/10/09 10:05**		
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
Trichloroethene	**630**	D08, P6	10	4.6	ug/L	10.0	12/21/09 13:15	LH	9L21018	8260B TCLP
Vinyl chloride	**35**	D08, P6	10	2.4	ug/L	10.0	12/21/09 13:15	LH	9L21018	8260B TCLP
Client ID: FD-120809 (RSL0546-03 - Water)						**Sampled: 12/08/09**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
1,1,2-Trichloroethane	**2.6**		1.0	0.23	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
1,1-Dichloroethane	**0.72**	J	1.0	0.38	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
1,1-Dichloroethene	**43**		1.0	0.29	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Benzene	**0.74**	J	1.0	0.41	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Chloroethane	**7.6**		1.0	0.32	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
cis-1,2-Dichloroethene	**3100**	E	1.0	0.38	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Tetrachloroethene	**8.5**		1.0	0.36	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Toluene	**3.3**		1.0	0.51	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
trans-1,2-Dichloroethene	**140**	E	1.0	0.42	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Trichloroethene	**5400**	E	1.0	0.46	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Vinyl chloride	**1300**	E	1.0	0.24	ug/L	1.00	12/19/09 15:57	TRB	9L19018	8260B
Client ID: FD-120809 (RSL0546-03RE1 - Water)						**Sampled: 12/08/09**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**13000**	D08	400	150	ug/L	400	12/20/09 16:39	NMD	9L19019	8260B
Trichloroethene	**30000**	D08	400	180	ug/L	400	12/20/09 16:39	NMD	9L19019	8260B
Vinyl chloride	**1500**	D08	400	97	ug/L	400	12/20/09 16:39	NMD	9L19019	8260B
Client ID: GPW10-1230 (RSL0546-10 - Water)						**Sampled: 12/09/09 12:30**		**Recvd: 12/10/09 10:05**		
Volatile Organic Compounds by EPA 8260B										
Methylcyclohexane	**0.56**	J	1.0	0.50	ug/L	1.00	12/19/09 18:38	TRB	9L19018	8260B
Toluene	**0.54**	J	1.0	0.51	ug/L	1.00	12/19/09 18:38	TRB	9L19018	8260B
Trichloroethene	**0.60**	J	1.0	0.46	ug/L	1.00	12/19/09 18:38	TRB	9L19018	8260B
Client ID: GPW13-1430 (RSL0664-02 - Water)						**Sampled: 12/14/09 14:30**		**Recvd: 12/15/09 12:20**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**1.2**	S13, P11	1.0	0.38	ug/L	1.00	12/22/09 13:07	DHC	9L22007	8260B
Trichloroethene	**1.3**	S13, P11	1.0	0.46	ug/L	1.00	12/22/09 13:07	DHC	9L22007	8260B

END OF REPORT