Site Characterization & Interim Remedial Measures Report / Ex-Situ Chemical Oxidation Remedial Action Plan

Project Location:

Hertel Warehouse
373 Hertel Avenue
Buffalo, New York 14207
Site No. 915210

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1.0 INTRODUCTION

AFI Environmental (AFI) has prepared this Site Characterization & Interim Remedial Measures (SC/IRM) Report/*Ex-Situ* Chemical Oxidation (ESCO) Remedial Action Plan (RAP) on behalf of Hertel Warehouse, Inc. (HWI) for the Hertel Warehouse Site (Site No. 915210) located at 373 Hertel Avenue in the City of Buffalo, New York (hereafter referred to as the "Site" or the "Property"). A site location map is provided as **Figure 1**. A site map is provided as **Figure 2**.

Based on the detection of volatile organic compounds (VOCs) found in the groundwater and soil on the Site during previous investigations, New York State Department of Environmental Conservation (NYSDEC) recommended that (HWI) perform additional on-site and off-site investigations and implement remedial measures. AFI prepared a *Site Characterization Work Plan* (Ref 1) to support and define HWI's commitment for an off-site characterization under a NYSDEC Order on Consent. The purpose of the Work Plan was to describe the actions necessary to identify and delineate contaminant source location(s) in soil and groundwater and define groundwater conditions on and immediately off-site so that a cost-effective remedial approach could be identified.

This report/work plan documents the results of the site characterization/interim remedial measures that were completed in accordance with the *Site Characterization Work Plan* (Ref 1) approved by NYSDEC on April 29, 2013. Additionally, this report/work plan presents the Remedial Action Plan (RAP) for conducting *ex-situ* chemical oxidation (ESCO) of impacted source material on-site as discussed with NYSDEC at the Region 9 office on July 17, 2014.

It should be noted AFI attempted, on numerous occasions, to coordinate the installation of off-site monitoring well MW-10 as described in the *Site Characterization Work Plan* (Ref 1) without success. AFI made numerous requests to Mr. Sutton (City of Buffalo Engineer) and Mr. John Heffron (City of Buffalo Assistant Attorney) for permission to install an additional groundwater well (MW-10) south of the site, on City of Buffalo property. A location was identified, but approval for installation of the well from the city council was never received. This well was important to define the groundwater flow direction, gradient and to define the limits of the off-site impacts to the south. However, as of date, approval for installation of the well has not been received from the City and the well has not been installed. Therefore, AFI has requested that the project proceed in a different direction that does not include the hydraulic conductivity testing and site mapping as described in the *Site Characterization Work Plan;*

because the applicability of this data was based on data that would have been collected from installation and sampling of MW-10.

It should also be noted, a Data Usability Summary Report (DUSR) was not completed as described in the *Site Characterization Work Plan*. At the time of writing the work plan, it was anticipated the site may enter the NYSDEC Brownfields Cleanup Program (BCP) which would require a DUSR. The site has not entered into the BCP, therefore, after discussion with NYSDEC the DUSR was not completed. Field collection was consistent with DUSR protocol but third party data usability verification was not completed.

The ESCO RAP will be completed by AFI in conjunction HWI. AFI will provide means for excavation, placement and backfilling of soil in addition to third party analysis of soil samples. HWI will provide the mechanical and chemical means for ESCO treatment of the excavated soil. The work will be completed in general accordance with NYSDEC Department of Environmental Remediation (DER)-10 guidelines (Ref. 2).

1.1 Site History

In September 1996, NYSDEC Division of Spills was made aware of abandoned drums at the Site by police responding to a silent alarm. The report of abandoned drums initiated a site inspection by NYSDEC Spills Division. In March 1997, at the request of NYSDEC, United States Environmental Protection Agency (USEPA) evaluated the Site and ultimately removed approximately 20,000 drums. In August 1997, drum removal negotiations were completed and an Administrative Order on Consent issued.

In November 1998, soil and groundwater samples were collected by Roy F. Weston, Inc. (Weston) on behalf of the USEPA Response Engineering and Analytical Contract (REAC) to provide technical support to the USEPA Environmental Response Team Center (ERTC). A Final Report (Ref 3) was completed in January 1999, and drum removal was completed by March 1999, and given a Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) site status of "cleaned up" (Ref 3).

In 2000, Waste Resource Associates performed investigation in the loading deck area showing elevated levels of chlorinated volatile organic compounds (VOCs). In March 2000, NYSDEC Division of

Environmental Remediation (DER) requested HWI undertake an investigation and possible cleanup of the loading dock area containing elevated levels of chlorinated VOCs.

HWI subsequently retained Malcolm Pirnie to assist HWI in addressing NYSDEC's concerns relative to remediation of the site. Malcolm Pirnie submitted to NYSDEC a *Site Investigation Work Plan* for a Soil and Groundwater Investigation. A comprehensive *Site Investigation Report* (Ref 4) detailing the results of the investigation was submitted to NYSDEC in December 2001.

In July 2003, a fire destroyed much of the warehouse. Cleanup activities removed all fire-related debris down to the floor slab of the main part of the warehouse. Approximately 25,000 square feet of the rear of the warehouse still exists under a two story roof. From 2004 until 2012 no work was completed at the site. In 2012, HWI, was successful in negotiating its payment for the fire losses. In August 2012, HWI retained AFI to evaluate the technical and field investigative needs for compliance with the Order on Consent as well as determine the requirements for upgrading the monitoring well network and finalization of the Site Characterization Work Plan (SCWP).

1.2 Previous Investigations

As described above, several environmental investigations have been performed at the Site. **Figure 3** illustrates historic monitoring well and soil boring sample locations. The following is a summary of significant results of the site investigations performed at the site.

1.2.1 Roy F. Weston, Inc.

As part of a site-wide investigation conducted in 1998, Weston, as contractor for the USEPA, drilled and sampled 17 shallow soil borings (GP-1 through GP-17) to a depth of four feet and drilled and installed five overburden groundwater-monitoring wells (MW-1 through MW-5) throughout the site (**Figure 3**) (Ref 3). Soil boring and monitoring well logs are included in **Appendix A**. Soil samples were collected from each boring (0- to 4-foot composite) and analyzed for VOCs, target analytic list (TAL) metals, base neutral extractable, and pesticides and polychlorinated biphenyls (PCBs) in soils.

Soil Results

Four VOCs were detected in one or more soil samples at concentrations above NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 *Determination of Soil Cleanup Objectives and Cleanup Levels* soil cleanup objectives (SCOs). Acetone was detected at 16,000 micrograms per kilogram (µg/kg) at GP-17, trichloroethene (TCE) was detected at locations GP-7 and GP-10 at 2,700 µg/kg and 1,400 µg /kg respectively, tetrachloroethene (PCE) was detected at location GP-10 and GP-12 at 4,800 and 31,000 µg /kg respectively and 1,1,2,2-PCE was detected at location GP-7 at a concentration of 1,300 µg /kg. Boring GP-12 is located near the loading dock at the south side of the facility, GP-17 is near well MW-3 and borings GP-7 and 10 are in the eastern area of the warehouse building.

The presence of metals in soil was fairly consistent between boring locations throughout the site with some exceptions. Iron, nickel and zinc were detected at concentrations above NYSDEC TAGM 4046 SCOs and/or the range found in eastern US background soils in many of the 17 boring locations. The presence of these three metals at these levels was attributed, by Weston, to site background levels that are probably above the cleanup objective. Beryllium, Mercury and Chromium were each detected slightly above the eastern US background range at one or two of the 17 boring locations.

Groundwater Results

Weston collected groundwater samples from four of the five wells (monitoring well MW-5 did not produce enough water to sample) and the samples were analyzed for full Target Compound List/Target Analyte List (TCL/TAL) analytes. Groundwater collected from the two wells completed in the deeper saturated clay (MW-1 and MW-2), did not contain VOCs. Groundwater collected from the two wells completed in the sand and gravel fill materials (MW-3 and MW-4) showed elevated levels of VOCs. MW-3 contained TCE and cis-1,2-dichloroethene (DCE) at concentrations of 500 micrograms per liter (ug/L) and 540 ug/L respectively. MW-4 contained TCE at a concentration of 6.7 ug/L. These concentrations were above NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* groundwater standards. PCE and its breakdown products (TCE, DCE, and vinyl chloride) were also present at lesser concentrations in groundwater samples from MW-3 and MW-4.

Iron, manganese, and sodium were present in one or more of the groundwater samples at concentrations above NYSDEC TOGS 1.1.1 groundwater quality standards. The Weston report suggests that these metals may be indicative of naturally occurring site conditions. No other metals were detected in groundwater samples at concentrations above NYSDEC TOGS 1.1.1 groundwater quality standards.

1.2.2 Malcolm Pirnie, Inc.

Malcolm Pirnie, Inc. conducted supplemental site investigations during 2001 to characterize a potential contaminant source area and to better delineate the extent of known VOC contamination in groundwater (Ref 4). The initial investigation performed in April 2001, included the advancement of soil borings in the vicinity of the loading dock area to investigate a potential source of VOC contamination in the soil. Soil samples collected for chemical analysis at the 0-4 feet and 4-8 feet below ground surface intervals identified elevated levels of PCE (up to 88,000 µg/kg) in the unsaturated fill.

A subsurface drilling program conducted in August 2001, was performed to install two additional shallow groundwater monitoring wells (MW-6 and MW-7), to evaluate the integrity of the existing on-site monitoring well network and to better define shallow groundwater flow direction. Soil boring and well logs are not available for these wells. Groundwater samples collected from each of the wells installed within the fill unit, detected elevated VOC concentrations. Analytical results of the groundwater samples collected at the newly installed wells MW-6 and MW-7 (589 µg /L and 67,200 µg /L, respectively) when used in concert with isopotential data infer that soils in the loading dock area impacted shallow groundwater at the Site.

1.2.3 AFI Environmental Ad Hoc Investigation

AFI completed a limited “Ad Hoc” subsurface site ground water investigation in August 2012 (Ref 5), to evaluate the location and integrity of the on-site monitoring well network, and to determine if any in-situ attenuation of soil and/or groundwater impact had occurred since 2001. AFI located five (5) previously installed monitoring wells (MW-1, MW-2, MW-3, MW-4 and MW-5). MW-2 was found to be filled with sediment/soil and MW-1 was found in need of repair to its riser and well cap (the handle and lock broke off leaving the well inaccessible). AFI developed three (3) of the existing five (5) wells (MW-3, MW-4 and MW-5) and collected a water sample from each. Groundwater samples collected from MW-3 showed elevated VOC concentrations (22,200 µg /L for cis-1,2-Dichloroethene, 1,520 µg /L for PCE, 1,220 µg /L for TCE and 4,450 for Vinyl Chloride). MW-4 results were 14.6 µg /L for cis-1,2-Dichloroethene and

6.10 µg /L for Vinyl Chloride while results for MW-5 were below detection limits for VOCs. No other wells or soils were sampled due to integrity or location issues.

Subsequent to the ad-hoc sampling by AFI, AFI's field scientist met with NYSDEC Region 9 representatives and discussed the needs of the site and level of investigation and information required by NYSDEC for a Site Characterization Work Plan as required by the now somewhat dated Order On Consent.

Based on the detection of VOCs found in the groundwater and soil on the Hertel Warehouse, Inc. Site, NYSDEC recommended that HWI perform additional on-site and off-site investigations and perform remedial measures. In February 2013, AFI submitted to NYSDEC a *Site Characterization Work Plan* (Ref 6) to support and define Hertel Warehouse, Inc.'s commitment for an off-site characterization under a NYSDEC Order on Consent. The purpose of the Work Plan was to describe the actions necessary to identify and delineate contaminant source location(s) in soil and groundwater and define groundwater conditions on and immediately off-site so that a cost-effective remedial approach could be identified.

A majority of this work was completed in May through July 2013. A summary of the work completed and results of the work in presented in Section 4.

1.3 Project Objectives

The purpose of this SC/IRM Report / ESCO RAP is to present the finding of the work completed for on and off site characterization as required by the Order on Consent as well as present a plan for remediation of remaining source material on-site. The objective of the remediation is to reduce on-site contaminant concentrations to meet Restricted Use Soil Cleanup Objectives identified in 6 New York Codes Rules and Regulations (NYCRR) Part 375-6.8(b): Industrial Soil Cleanup Objectives (SCOs).

1.4 Project Organization and Responsibilities

AFI will manage the implementation of the RAP on behalf of and in conjunction with HWI. The NYSDEC DER (Region 9), in consultation with the New York State Department of Health (NYSDOH) shall monitor the remedial actions to verify that the work is performed in general accordance with the NYSDEC-approved ESCO RAP, and DER-10 (Ref. 1) guidance.

AFI will oversee all field aspects of this project during the execution and will be in contact with Leonard Preston, the engineer of record for this Site. Listed below are the key project personnel and their office/primary phone numbers.

Jaspal S. Walia, P.E. – NYSDEC Project Manager **–** (716) 851-7220

Mr. Walia will be the point-of-contact for communications with NYSDEC.

William L. Heitzenrater – AFI Project Manager **–** (716) 940-2725

Mr. Heitzenrater will be responsible for overall coordination of all phases of the project from implementation of the ESCO RAP to subsequent reporting and documentation of the work performed.

Leonard Preston, PE. – L.P. Engineering, PLLC – (585) 703-2523

Mr. Preston, will be the Professional Engineer (PE) of record for the project.

Steven Leitten – AFI Senior Geologist **– (**716) 283-7645

Mr. Leitten will be responsible for the implementing the ESCO RAP. Responsibilities will include oversight of soil excavation, soil placement in the treatment area and subsequent backfill. Additionally, he will be responsible for overseeing confirmatory soil sampling as well as prepare interpretation of data for the Final Engineering report.

Geoffrey S. Heitzenrater – AFI Project Director **–** (716) 283-7645

Mr. Heitzenrater will be responsible for the overall quality assurance and review of all project deliverables. He will interface with the Project Manager, Senior Geologist, and PE to address any technical issues and provide quality control for the entire project.

Elby Benton – AFI Project Scientist and Site Health and Safety Officer **–** (716) 283-7645

Mr. Johnston will be responsible for implementing the CAMP and HASP while implementing the ESCO RAP. He will also assist in field activities.

Pat Ackerman – AFI Field Scientist **–** (716) 283-7645

Mr. Ackerman will be responsible for conducting ESCO RAP field activities. Responsibilities will include sample collection and subcontractor oversight.

Lawrence Zygaj, LLS – LJSurvey Surveyor – (585) 652-8483

Mr. Zygaj is a New York State licensed land surveyor and will conduct all boundary and topo surveys as well as provide stamped and sealed Site maps as necessary for the project.

Donald Sadkin – Hertel Warehouse Inc. – (716)873-2000

Mr. Sadkin will represent HWI and manage the ESCO soil processing activities including obtaining, mixing and application of the appropriate chemical oxidants in addition to processing the soil until such time confirmatory soil sampling results indicate soil meets appropriate contaminant concentrations for use as backfill on the site.

1.5 Limitations

This SC/IRM Report/ESCO RAP presents a summary of information know to AFI concerning the Site that AFI considers pertinent to the scope of work and stated project objectives. AFI has performed this work with the care and skill ordinarily used by members of the profession practicing under similar conditions. The conclusions presented herein are those that are deemed pertinent by AFI based on the assumed accuracy of the available information. No other warranty, expressed or implied, is made as to the professional opinions included in this report. The information presented in this report is not intended for any other use other than that stated of this project. This document was prepared for the sole use of Hertel Warehouse Inc. and NYSDEC, who are the only intended beneficiaries of the work.

2.0 SITE DESCRIPTON

2.1 General

The Site consists of one (1) parcel measuring approximately 3.51 acres with a street address of 373 Hertel Avenue (aka 357 Hertel Avenue), Buffalo, Erie County, New York with Tax ID # 77.74-4-23. Coordinates of the property are 42° 56’ 42.20’’N, 78° 53’ 36.31’’W (WGS84). The Site consists of a warehouse building, parking lot and one entrance driveway. A site location map is included as **Figure 1**. A site map is included as **Figure 2**.

The mixed use surrounding area is developed with CSX railroad tracks to the west, CSX railroad tracks and commercial businesses to the south, the ‘Former’ Auto City of Buffalo, Inc. followed by the Hertel Middle School to the east, and residential homes and commercial businesses to the north along Hertel Avenue. A map showing the surrounding property uses is included as **Figure 4**.

2.2 Site Topography and Drainage

The Site is generally flat lying with limited topographic features. The United States Geological Survey (USGS) elevation of the site is 598 feet above sea level. Hertel Avenue (located along the northern property line) slopes down to the west to allow traffic to travel under the railroad tracks. Additionally, there is an incline along the southern property line since the CSX railway is situated approximately five (5) feet above the grade of the Site. The surface of the Site is primarily occupied by the concrete pad for the current and former warehouse building(s). The southern portion of the site has a paved access road to the loading docks in the rear of the warehouse. The remainder of the site is undeveloped. Precipitation (i.e., rain or melting snow) mainly drains via overland flow onto Hertel Avenue into the Buffalo Sewer Authority (BSA) sewer system. The remainder infiltrates through the unpaved areas of the site and enters the groundwater.

2.3 Geology and Hydrogeology

2.3.1 Overburden

The U.S. Department of Agriculture Soil Conservation Service website (Ref. 7) describes the general soil type at the Site as Urban Land (Ud). This is indicative of the level to gently sloping land with at least 40 percent of the soil surface covered by asphalt, concrete, buildings, or other impervious structures typical of an urban environment.

According to the previous investigations, soil observed consists of fill materials extending to depths of approximately four (4) feet below grade (ftbg) in the northwestern portion of the site to approximately 13 ftbg in the southeastern portion of the site. The fill materials include gravel, sand, silty clay and clay. The fill material is underlain by a native stiff silt and clay.

2.3.2 Bedrock

Based on the bedrock geologic map of Erie County (Ref. 3), the Site is situated over the Camillus Formation of the Upper Silurian Series. The Camilus Formation is comprised of a grey shale with large amounts of gypsum. The unit has an approximate thickness of 150 feet. Depth to and type of bedrock below the Site has not been determined by drilling.

2.3.3 Hydrogeology

The Site is located in the Erie-Niagara River Basin. In the Erie-Niagara Basin, the major areas of groundwater are within coarser overburden deposits and limestone and shale bedrock. Based on the previous investigations (see Section 1.2), the uppermost groundwater bearing unit appears to be situated at or near the interface between the soil and a natural clay layer at approximately 11 ftbg. Groundwater elevation was calculated with data collected by AFI on June 4, 7 and 17, 2013. The southwestern flow direction was expected, which would indicate control of flow by the proximately of the site to Scajaquada Creek located approximately 0.60 miles to the south.

2.4 Utilities and Groundwater Use

The Site has access to all major public and private utilities, including potable water (Buffalo Water Authority), sanitary and storm sewers (Buffalo Sewer Authority), electric (National Grid), and natural gas (National Fuel Gas).

Currently, there are no known deed restrictions on the use of groundwater at the Site; however, there are no groundwater supply wells on the property. Regionally, groundwater in the area has not been developed for industrial, agriculture, or public supply purposes. Municipal potable water service is provided on-site and off-site.

2.5 Sensitive Receptors

Per the Erie County GIS System (Ref 9) there are no surface water bodies or State or Federal wetlands or floodplains located on the Site. No State or Federal wetlands of floodplains are located within a ½-mile radius of the Site. Per the NYSDEC Environmental Resource Mapper (Ref 10), there are no wildlife refuges or critical habitats located on the site although there is a critical habitat for a rare plant and two rare animals within ½ mile radius of the site to the west. Additionally, the Site does not have any institutional controls currently in place.

The Site has access to all major public and private utilities, including potable water (Buffalo Water Authority), sanitary and storm sewers (Buffalo Sewer Authority), electric (National Grid), and natural gas (National Fuel Gas).

There are no drinking water wells in the area. There are residential, schools and commercial areas located in the immediate vicinity of the site. Specifically, Hertel Middle School is located east of the site. AFI installed MW-12 as part of the Site Characterization discussed in Section 3.5.2 due east of the Hertel Site on Military Road to evaluate impact to the school. Groundwater sampling results indicated MW-12 did not contain any VOC concentrations exceeding NYSDEC TOGS 1.1.1 groundwater standards.

2.6 Primary Constituents of Potential Concern

Based on findings to date, the Primary Constituents of Potential Concern (COPCs) presented by media are:

- ***Soil/Fill:*** SVOCs, select metals
- ***Groundwater:*** VOCs, SVOCs

3.0 SITE CHARACTERIZATION INVESTIGATION SCOPE OF WORK

Section 3 of this report documents the site characterization/interim remedial measures that were completed in May 2013, through July 2013, in accordance with the *Site Characterization Work Plan* (Ref 1) approved by NYSDEC on April 29, 2013. The work was conducted in accordance with 6 NYCRR Part 375-Brownfield Cleanup Regulations, and in general conformance with the NYSDEC DER-10.

3.1 Purpose and Objectives

Based on the detection of VOCs found in groundwater and soil on the Site, NYSDEC recommended that HWI perform additional on-site and off-site investigations and perform remedial measures. In February 2013, AFI submitted to NYSDEC a *Site Characterization Work Plan* (Ref 1) to support and define HWI's commitment for an off-site characterization under a NYSDEC Order on Consent. The purpose of the work plan was to describe the actions necessary to identify and delineate contaminant source location(s) in soil and groundwater and define groundwater conditions on and immediately off-site so that a cost-effective remedial approach could be identified.

As part of the work, a total of two (2) new on-site wells (MW-8 and MW-9) and two (2) new off-site wells (MW-11 and MW-12) were installed to better define the areal extent of a VOC-contaminated groundwater plume and groundwater flow directions. A replacement well (MW-2a) was installed west of the original location of MW-2. A map showing the locations of these wells is included as **Figure 5**. Monitoring well and soil boring logs are included in **Appendix A**.

This investigation also included surface sampling at three (3) locations (SS-1, SS-2 and SS-3) collected in a grid pattern focusing on the eastern, western and southern areas of the property; in between the edge of the concrete slab of the building and the perimeter chain link fence. A map showing the locations of the surface samples is included as **Figure 6**.

Eight (8) Test Pits (TP-1, TP-2, TP-3, TP-4, TP-5, TP-6, TP-7 and TP-8) were installed to obtain information regarding the nature and extent of visually observed surface spills and to characterize historic urban and anthropogenic fill, as encountered, and potential impacts related to historic operations. A map showing the locations of the test pits is included as **Figure 6**. Test pit logs are included in **Appendix B**.

AFI also conducted an exploratory investigation of the bedding material for the two (2) known, underground utility services (sewer and water) entering the site from Hertel Avenue by installing a test pit (TP-9) north of the site along Hertel Avenue. A map showing the location of the test pit is included as **Figure 6**.

Finally, based on data collected during the site characterization activities, two (2) Areas of Concern (AOC) were identified with gross impacts. In order to expedite Site remediation, an Interim Remedial Measure (IRM) consisting of excavation of the impacted soil for off-site disposal followed by placement of certified clean backfill was implemented. Further details of the IRM can be found in Section 5.0 of this report.

3.2 Site Characterization Investigation Elements

3.2.1 Governing Documents

3.2.1.1 Quality Assurance Project Plan (QAPP)

The Quality Assurance Project Plan (QAPP) was included as Section 3.0 of the *Site Characterization Work Plan* approved by NYSDEC. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/quality control (QA/QC) activities designed to achieve the project data quality objectives.

3.2.1.2 Site Specific Health & Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Occupational Safety and Health Administration (OSHA) requirements contained in 29 CFR 1910.120.

The site specific Health and Safety Plan (HASP) was compiled for all remedial and invasive work performed at the Site. A copy of the HASP was included in **Appendix B** of the NYSDEC approved *Site Characterization Work Plan*.

3.2.1.3 Community Air Monitoring Plan (CAMP)

A Community Air Monitoring Plan (CAMP) that described particulate and vapor monitoring to protect the neighboring community during intrusive site investigation and remediation activities was included as part of on-site activities during the investigation activities of the approved *Site Characterization Work*

Plan. Routine Community Air Monitoring was performed during intrusive site activities, using a MiniRAE 3000 PID and a Dustrak II Aerosol Monitor.

3.2.2 Contractors and Consultants

AFI Environmental served as the Engineer of Record. The following contractors also completed various tasks as noted:

- **McEwen Trucking and Gravel Products, Inc.** delivered certified compactable back fill material from their permitted gravel pit (NYSDEC Site No. 90489) located at 10782 Sharp Street, East Concord, NY 14055.
- **Nature's Way Environmental Consultants and Contractors, Inc.** installed monitoring wells as part of on-site activities during the investigation activities of the approved Site Characterization Work Plan. Nature's Way's licensed Geologist classified soils and prepared boring logs and well installation logs.
- **Phoenix Environmental Laboratories, Inc.** (NYSDOH ELAP ID No. 11301) performed soil and groundwater sample analysis related to the investigation activities.
- **Parisio Logistics** (NYSDEC Permit No. 9A-826 transported contaminated soil/fill/debris for disposal at the Tonawanda Landfill located in Tonawanda, NY (NYSDEC Permit Number 15S29, NYCC Bioremediation 9-1464-00294).
- **Buffalo Environmental Consultants, Inc.** (NYSDEC Permit No. FL-021) transported contaminated soil/fill/debris for disposal at the Tonawanda Landfill located in Tonawanda, NY (NYSDEC Permit Number 15S29, NYCC Bioremediation 9-1464-00294) and to the Allied Waste Niagara Falls Landfill, LLC located at 5600 Niagara Falls Blvd. in Niagara Falls, New York.

3.3 Site Preparation for Site Characterization Investigation

Prior to intrusive activities, Dig Safe New York was notified of the areas of planned excavation and a pre-excavation utility clearance request was made on Friday May 17, 2013, for well installation expected to commence on Wednesday May 22, 2013. AFI engineers reviewed the planned investigation locations to “pre-clear” on-site areas for sub-grade utilities and production-related lines. Site preparation activities included the installation of AFI’s office trailer, and posting of required safety information signage.

3.3.1 General Site Controls

A construction office trailer was established at the primary ingress point with signage requiring all visitors to sign in at the office before proceeding onsite. A photoionization detector (PID) was used to monitor VOC levels up and downwind of the site as per the CAMP plan. In addition, a Dustrak II Aerosol Monitor was utilized to track particulates up and downwind during site activities and a Vantage Pro 2 Weather Station tracked weather conditions. All well installation and excavation work was overseen by an experienced AFI scientist. First-Aid kits and eye-wash stations were installed in the Project Office Trailer. A schedule for conducting safety meetings was established as part of the HASP.

AFI personnel completed daily site notes to keep track of daily activities, on site visitors, contractors and any deviations from the *Site Characterization Work Plan* as related to the remedial investigation activities. All project records were available onsite in the construction office trailer during all phases of the site characterization activities.

3.4 Monitoring Well Installation

3.4.1 On-Site Monitoring Wells

Based on historic information, the grassy area north of the loading dock is a suspected source area of VOC constituents detected in the down gradient groundwater monitoring wells located on the southern perimeter of the property. Therefore, a shallow groundwater monitoring well (MW-8) was installed in the grassy area near the former loading dock to establish the depth to the underlying clay unit and evaluate groundwater contamination in this potential source area. A second groundwater monitoring well (MW-9) was installed south-southeast of MW-7 to evaluate the potential for off-site impacts to the Site from the former junk yard to the east. Former MW-2 (from a 1998 study) was located and re-drilled (MW-2a) west of the original location. A map showing the locations of the monitoring wells is included as **Figure 5**.

3.4.2 Off-Site Groundwater Monitoring Wells

Groundwater analytical data collected to-date has identified elevated levels of VOC contamination in shallow groundwater monitoring wells at the site's down gradient perimeter. AFI received permission to access private property and a total of two (2) monitoring wells (MW-11 and MW-12) were installed off-site to characterize groundwater quality and complement the existing monitoring well network. The new wells were located 400-500 feet outside of the site perimeter and installed to characterize the down gradient groundwater quality. Well locations were selected based on groundwater analytical results and flow directions determined during previous investigations. MW-11 was installed, north of the railway, on the ‘Former’ Auto City of Buffalo, Inc. property located at 409 Hertel Avenue to evaluate the southeast groundwater flow direction. MW-12 was installed due east of the Hertel Site on Military Road to evaluate potential impact to the Hertel Middle School, a sensitive receptor. A map showing the locations of the monitoring wells is included as **Figure 5**.

It should be noted AFI attempted, on numerous occasions, to coordinate the installation of off-site monitoring well MW-10 as described in the *Site Characterization Work Plan* (Ref 1) without success. AFI made numerous requests to Mr. Sutton (City of Buffalo Engineer) and Mr. John Heffron (City of Buffalo Assistant Attorney) for permission to install an additional groundwater well (MW-10) south of the site, on City of Buffalo property. A location was identified, but approval for installation of the well from the city council was never received. This well was important to define the groundwater flow direction, gradient and to define the limits of the off-site impacts to the south. However, as of date, approval for installation of the well has not been received from the City and the well has not been installed.

3.4.3 Drilling and Monitoring Well Installation

All borings were advanced through unconsolidated sediments to the first retarding clay unit located approximately 10 to 20 ftbg. All boreholes were advanced using 4-1/4-inch hollow stem augers powered by a truck mounted Acker Drill Rig. Continuous split spoon sampling was employed to characterize the overburden fill material during the installation of MW-2a. MW-9. MW-11 and MW-12. One split spoon sample was collected every five feet during the installation of MW-8. Borings were advanced approximately two (2) feet into clean competent clay underlying the unconsolidated sediments. This ensured the natural clay layer remained intact and the monitoring well was constructed from this depth to the surface. This procedure maintained the natural seal and restricted potential migration of impacts to the bedrock below.

Soil boring samples were retrieved in approximate 2-foot intervals with split-spoon samplers and logged by visual observation in accordance with ASTM Method D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) and for impacts via visual and/or olfactory observations. A portion of each sample was collected and placed into a re-sealable container. Samples were kept at or near room temperature (approximately 65-70 ºF) for a minimum of 15 minutes prior to PID measurement. The headspace of the containerized samples were screened for the presence of volatile organic vapors using a PID. Per NYSDEC, a soil sample from the 0-4 ftbg interval from MW-2a only was sent for laboratory analysis of total contaminant list (TCL) VOCs via Environmental Protection Agency (EPA) Method 8260, TCL SVOCs via EPA Method 8270, Resource Conservation and Recovery Act (RCRA) Metals using EPA Method 6010, PCBs via EPA Method 8082 and total Cyanide via EPA Method 9010/9012. Soil boring and monitoring well logs are included in **Appendix A**.

Upon reaching target depth, each well was constructed using ten (10) feet of 2-inch inside diameter (ID) Schedule 40 polyvinyl chloride (PVC) well screen with a 0.01-inch slot size. A bottom plug was placed on the PVC screen, and flush-threaded PVC casing was used to complete the well to approximately two feet above grade. An appropriately sized silica sand pack (Morie 0 or equivalent) was placed in the well annulus from 6-inches below the bottom of the well to a maximum of two feet above the top of the well screen. A bentonite seal measuring two feet thick was placed on top of the sand pack and hydrated. Subsequent to hydration of the bentonite seal, a bentonite/cement grout was tremied into the remaining borehole annulus to a depth of approximately one foot below grade. A four-inch diameter protective steel casing with locking lid was set over the PVC riser to complete the field installed wells. Where additional well protection was warranted (i.e., driveways, etc.) a flush mounted road box was installed. After the grout had sufficiently cured, the well was completed with a 2-foot by 2-foot square by 6-inch thick concrete drainage pad. A "weep" hole was drilled into the protective casing approximately 2-inches above the concrete pad to prevent collection of water between the inner and outer casings. The protective well casings were secured using keyed alike locks. Soil boring and monitoring well logs are included in **Appendix A**.

3.5 Monitoring Well Development

Following installation, newly installed monitoring wells were developed in accordance with established methods and the approved Work Plan. Each well was left undisturbed for a minimum of 24 hours before development to allow the cement/bentonite grout mixture to cure. Prior to development, the static water level and well depth was measured.

The monitoring wells were developed using peristaltic pumps and/or bottom discharging bailers. Well development protocols were considered complete when the pH, specific conductivity, temperature, dissolved oxygen, redox (Eh), and turbidity had stabilized after purging a minimum of three to five well volumes or a maximum of 10 well volumes had been purged. Stability is defined as variation between measurements of 10 percent or less and no overall upward or downward trend in the measurements.

Additionally, MW-1 was originally found to be full of sediment. On June 7, 2013, AFI utilized specialized well tremie equipment, to clean out MW-1 to a depth of 25.4'. High pressure potable water was pumped through the tremie pipe into the well to displace sediment from inside the well. Approximately 250 gallons of potable water was used for flushing. The well was then emptied using a dedicated hand bailer and left to recover.

3.6 Groundwater Monitoring and Sampling

Subsequent to monitoring well installation and development, groundwater samples were collected from all seven (7) existing and the four (4) newly installed monitoring wells to evaluate groundwater quality at the site and off-site perimeter areas where new wells have been installed. Prior to sampling, the depth to groundwater was measured to the nearest 0.01 foot in each monitoring well. The wells were purged using the procedures identified above in Section 3.6. Field parameters identified in Section 3.6 were measured during purging. Sampling was conducted using low-flow sampling methods.

A total of eleven (11) groundwater samples were collected from nine (9) on-site monitoring wells (MW-1 through MW-9) and two (2) off-site monitoring wells (MW-11 and MW-12). All 11 groundwater samples were analyzed for VOCs using EPA Method 8260B and all but five wells (MW-1, MW-2, MW-4, MW-5, and MW-9) were analyzed for various wet chemistry parameters relative to remedial alternative selection and implementation. Wet chemistry tests included (Iron and Manganese [both total and dissolved], nitrate, sulfate, methane, ethane/ethene, and hydrogen). In addition to samples collected for VOC and wet chemistry analyses, samples were collected for semi-volatile organic compounds (SVOC) analyses at five down gradient perimeter monitoring wells (MW-3, MW-4, MW-6, MW-7 and MW-9). Samples collected for SVOCs were analyzed using USEPA Method 8270. Three quality control samples consisting of a blind duplicate, a matrix spike (MS) and a matrix spike duplicate (MSD) were also collected.

3.7 Surface Soil Sampling

AFI conducted surface sampling to further understand the impact of the potential VOCs and to take corrective action if needed. A total of three (3) surface samples (SS-1, SS-2 and SS-3) were collected from a grid pattern, as directed by NYSDEC, focusing on the eastern, western and southern areas of the property in between the concrete slab of the building and the chain-linked fence. A mini excavator was utilized to scrape the surface of the soil to approximately six (6) inches below grade. A sample was collected from loosened soil. Soil samples were analyzed for TCL SVOCs via EPA Method 8270, PCBs via EPA Method 8082, Pesticides via EPA Method 8081 and TAL Metals via EPA Method 6010. A map showing the locations of the soil borings is included as **Figure 6**.

3.8 Test Pit Investigation

To obtain information regarding the nature and extent of visually observed surface spills and to characterize historic urban and anthropogenic fill, as encountered, and potential impacts related to historic operations; sampling and laboratory analysis of soils was completed through the installation of eight (8) Test Pits (TP-1, TP-2, TP-3, TP-4, TP-5, TP-6, TP-7 and TP-8). Test Pits TP-1 through TP-3 were located in in the vicinity of MW-3 and MW-7. Test Pits TP-4, TP-5 and TP-6 were located just south of the concrete loading dock. This approximately 40’ x 40’ area had previously been identified by NYSDEC as an area which was impacted by historic spills and would need to be excavated and soils properly disposed of as part of the IRM discussed in Section 5.0 of this report. Test Pits TP-7 and TP-8 were located just west of the loading dock. A map showing the locations of the test pits is included as **Figure 6**.

Each test pit was excavated to approximately eight (8) ftbg using a mini excavator. Test pits were advanced to refusal, the top of the water table, or to a practical depth due to excavation equipment limitations or stability issues. Soils were characterized and screened for VOCs using a PID; evidence of contamination (e.g. odor, staining, ash, cinders, slag, etc.) was documented on log forms along with soil characterization information and observations. Test Pit Logs are included as **Appendix B**.

A composite soil sample from each test pit was collected and sent for laboratory analysis of TCL VOCs via EPA Method 8260, TCL SVOCs via EPA Method 8270, and RCRA Metals using EPA Method 6010. Typically samples were collected from the composite of soils excavated from each pit in a zone or area with the strongest evidence of contaminant impact. If there were no field indicators of contamination, soil samples were collected from the bottom of the exploration or at the water table respectfully.

A composite sample of soils recovered from all test pits was collected and sent for laboratory analysis for waste characterization (i.e., TCLP VOCs, TCLP SVOCs, TCLP Peticides and Herbicides, TCLP Metals, PCBs and Cyanide).

3.9 Underground Utility Bedding Material Investigation

The current owner has informed AFI via drawings provided February 4, 2013, that the site is serviced by an underground water service line and a sanitary sewer line that both run north- south from the center of the previous building concrete slab, in the general area of the former shower/bathrooms and locker rooms of the now demolished building (pad is still intact). AFI conducted an exploratory investigation of the bedding material for the two (2) known, underground utility services entering the site from Hertel Avenue.

AFI attempted to locate these utilities and sample the bedding material for possible chemical impacts or possible releases. A test pit (TP-9) was dug in the vicinity where the lines were thought to be located 100’ north of the existing building, 150’ east of the northwest corner of the existing fence on the north side (Hertel) of the site and 15’ east along the sidewalk from the electrical utility pole situated there. This location was located directly south of a water main valve observed on the sidewalk. A map showing the location of the test pit is included as **Figure 5**.

A water main was observed just under the concrete which was first excavated from this location. Approximately 2.5 to 3 ftbg, a 4-inch ceramic sewer line was unearthed at the north end of the pit, within a layer of brown clay and running northwest to southeast. The pit was excavated to 5' and natural brown clay was observed from this point up to the depth (2.5' to 3') where the sewer line was exposed. The final dimension of the pit was 3' x 10' x 5'. Using standard protocol for working around utility lines, a mini-excavator was used to collect soil samples from the bedding material. Due to the close proximity of the sewer and water lines, one sample was collected from the side wall of the pit representing both utility bedding materials and analyzed for VOCs via EPA Method 8260.

3.10 Investigation-Derived Waste Disposal

Materials generated during the performance of the site investigation included incidental personal protective equipment (PPE), water, and soil. PPE was collected, double bagged, and properly disposed of off-site. Water generated during decontamination and sampling activities was discharged on-site to the ground surface at the place of origin. All drill cuttings were collected and segregated in new 55-gallon DOT-approved steel drums and stored in an on-site location. All drums were marked and a log maintained that identifies the contents and the specific boreholes from which the soil was collected. A total of four (4) drums were generated as a result of the drilling activities

On July 26, 2013 the drums were emptied into a dump truck resulting in a total of 0.40 tons of soil that was transported and disposed of at Allied Waste Landfill in Niagara Falls, NY. The disposal receipt is included in **Appendix C**.

4.0 INVESTIGATION RESULTS BY MEDIA

The following sections discuss the analytical results of the Site Characterization Investigation. **Tables 1 and 2** summarize the soil/fill and groundwater analytical data, respectively. **Appendix D** includes the laboratory analytical data packages.

4.1 Subsurface Soil Sampling

Table 1 presents a comparison of the detected soil/fill contaminant concentrations to Soil Cleanup Objectives (SCOs) for protection of public health on commercial and industrial properties per regulations contained in 6NYCRR Part 375-6 (December 2006).

4.1.1 Soil Boring Soil Sample Results

Laboratory results for the soil sample collected from MW-2a and submitted for analysis did not exceed SCOs for Commercial or Industrial Use for VOCs, SVOCs, Metals, PCBs or Cyanide. A summary of laboratory analytical data is shown in **Table 1**. Laboratory analytical data is included in **Appendix D**.

4.1.2 Test Pit Soil Sample Results

Soil/fill samples from the eight (8) test pits (TP-1 through TP-8) were analyzed for TCL VOCs via EPA Method 8260, TCL SVOCs via EPA Method 8270 and RCRA Metals via EPA Method 6010 and compared to 6 NYCRR Part 375 6.8 (b) Soil Cleanup Objectives (SCOs) for Commercial and Industrial Use. A summary of laboratory analytical data is shown in **Table 1**. Laboratory analytical data is included in **Appendix D**.

VOCs

None of the sampled soils from the test pits exceeded 6 NYCRR Part 375 6.8 (b) Commercial or Industrial SCO levels for VOCs.

SVOCs

The majority of the analyzed SVOCs were reported as non-detectable or at trace (estimated) concentrations below the sample quantitation limit. Soil samples collected from test pits TP-3, TP-5, TP-6, TP_7 and TP-8 exceeded Commercial and/or Industrial SCOs for one or more SVOC parameters Benzo(a)pyrene, Benz(a)anthracene, Benz(b)fluoranthene, Dibenz(a,h)anthracene and Indeno(1,2,3-cd)pyrene.

Soil samples collected from test pits TP-1 and TP-2 were below Commercial and Industrial SCOs for SVOCs.

METALS

None of the sampled soils from the test pits exceeded 6 NYCRR Part 375 6.8 (b) Commercial or Industrial SCO levels for metals with the exception of Barium in TP-2 (454 mg/kg) which exceeded the 6 NYCRR Part 375 6.8 (b) Commercial SCO.

4.2 Surface Soil Sampling

Soil/fill samples from the three (3) surface samples (SS-1 through SS-3) were analyzed for TCL SVOCs via EPA Method 8270, TAL Metals via EPA Method 6010 and PCBs via EPA Method 8082 and compared to 6 NYCRR Part 375 6.8 (b) Soil Cleanup Objectives (SCOs) for Commercial and Industrial Use. A summary of laboratory analytical data is shown in **Table 1**. Laboratory analytical data is included in **Appendix D**.

None of the sampled soils from the surface exceeded 6 NYCRR Part 375 6.8 (b) Commercial or Industrial SCO levels with the exception of Benzo(a)pyrene in SS-1 (2.2 mg/kg) and SS-3 (3.3 mg/kg) which exceeded the 6 NYCRR Part 375 6.8 (b) Industrial SCO, Dibenz(a,h)anthracene in SS-3 (1 mg/kg) which exceeded the 6 NYCRR Part 375 6.8 (b) Commercial SCO and Manganese in SS-2 (32,000 mg/kg) which exceeded the 6 NYCRR Part 375 6.8 (b) Industrial SCO.

4.3 Underground Utility Bedding Material Investigation

One composite soil sample was collected from the side wall of TP-9 representing both utility (sewer and water) bedding materials and analyzed for TCL VOCs via EPA Method 8260 and compared to 6 NYCRR Part 375 6.8 (b) Soil Cleanup Objectives (SCOs) for Commercial and Industrial Use. A summary of laboratory analytical data is shown in **Table 1**. Laboratory analytical data is included in **Appendix D**.

None of the sampled soil from test pit TP-9 exceeded 6 NYCRR Part 375 6.8 (b) Commercial or Industrial SCO levels for VOCs.

4.4 Groundwater Sampling Results

Groundwater samples were collected from each of the currently installed overburden monitoring wells on July 31st, 2013. A groundwater monitoring map is shown as **Figure 7**. Although depth to water (DTW) measurements were taken during the groundwater sampling event on July 31, 2013, a series of well development events had been completed in the days preceding the sampling event and the groundwater in the wells may not have reached static equilibrium. Therefore groundwater elevations were collected on August 22, 2013, to allow sufficient time for groundwater levels to reach equilibrium. Groundwater elevations from the August 22, 2013, groundwater monitoring event are shown on **Table 2**. A comparison of the detected groundwater parameters to the Class GA Groundwater Quality Standards (GWQS) listed in NYSDEC TOGS 1.1.1 from the July 31, 2013, sampling event is shown in **Table 3**.

According to groundwater monitoring data collected on August 22, 2013, the apparent groundwater flow is to the southeast.

VOCs

On-Site Monitoring Wells

Monitoring wells MW-1, MW-2 and MW-5 did not exceed any NYSDEC TOGS 1.1.1 groundwater standards for VOCs. Monitoring wells MW-3, MW-4 and MW-9 exceeded NYSDEC TOGS 1.1.1 groundwater standards for VOCs cis-1,2-Dichloroethene and Vinyl chloride. Monitoring well MW-6 exceeded NYSDEC TOGS 1.1.1 groundwater Standards for VOCs cis-1,2-Dichloroethene, Tetrachloroethene, and Vinyl chloride. Monitoring well MW-7 exceeded NYSDC TOGS 1.1.1 groundwater standards for VOCs 1,1-Dichloroethene, Acetone, cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2-Dichloroethene, Trichloroethene, and Vinyl chloride. Monitoring well MW-8 exceeded NYSDEC TOGS 1.1.1 groundwater standards for VOCs cis-1,2-Dichloroethene, Tetrachloroethene and Trichloroethene.

Off-Site Monitoring Wells

Off-site well MW-11 located on the southern border of the former Buffalo Auto City, Inc. property exceeded NYSDEC TOGS 1.1.1 groundwater standards for VOCs 1,1-Dichloroethane, cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2-Dichloroethene, Trichloroethene and Vinyl chloride. Off-site well MW-12 located just west of the Hertel Middle School did not exceed any NYSDEC TOGS 1.1.1 groundwater standards for VOCs.

SVOCs

On-Site Monitoring Wells

As per the work plan, MW-1, MW-2, MW-5 and MW-8 were not analyzed for SVOCs. Monitoring wells MW-3, MW-4, MW-6, MW-7 and MW-9 exceeded NYSDEC TOGS 1.1.1 groundwater standards for SVOCs Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene and Indeno(1,2,3-cd)pyrene.

Off-Site Monitoring Wells

As per the work plan, off-site wells MW-11 and MW-12 were not analyzed for SVOCs.

Wet Chemistry

On-Site Monitoring Wells

As according to the work plan monitoring wells MW-1, MW-2, MW-4, MW-5 and MW-9 were not analyzed for wet chemistry parameters. Iron (Dissolved), Iron (Total), Manganese (Dissolved), Manganese (Total) and Sulfate were detected in samples collected from monitoring wells MW-3, MW-6, MW-7 and MW-8. Methane was detected in monitoring well MW- 3. Ethane and Ethene were detected in monitoring well MW-6 and Methane, Ethane and Ethene were detected in monitoring well MW-7.

Off-Site Monitoring Wells

Iron (Dissolved), Iron (Total), Manganese (Dissolved), Manganese (Total), Methane, Ethane and Ethene were detected in both off-site monitoring wells MW-11 and MW-12. Sulfate was detected in off-site monitoring well MW-11.

4.5 CAMP Results

AFI conducted community air monitoring in accordance with NYSDEC TAGM 4031 Fugitive Dust Suppression and Particulate Monitoring. Air monitoring was conducted both upwind and downwind of the intrusive activities, using an MiniRae PID (Serial Number 592-907933) to continuously monitor for VOCs and a Dustrak II Aerosol Monitor (Serial Number 8530102707) to monitor particulates.

All monitoring results for VOCs, Particulates and Metals conformed to the CAMP perimeter particulate requirements of 100 ug/m³ and the organic vapor requirement of less than 5 parts per million.

5.0 INTERIM REMEDIAL MEASURES

Based on results of the site characterization investigations conducted at the Site, VOC and SVOC contamination was confirmed in on-site soils and groundwater. Two (2) main Areas of Concern (AOC) were identified. AOC-1 was located in the vicinity of TP-4 through TP-8 and AOC-2 was located in the vicinity of TP-1, TP-2 and TP-3. AOC-1 was further divided in to three area AOC-1a, AOC-1b and AOC-1c. A map showing the location of these AOC sub-divisions is included as **Figure 8**.

In order to mitigate on-site impacts and to expedite the remedial process, an IRM was implemented at the Site concurrent with RI activities. The three (3) areas of concern (AOC) located directly South, North and West of the concrete loading dock (AOC-1a, AOC-1b and AOC-1c) were designated by the NYSDEC for removal and proper disposal. On June 24 and 25, 2013, impacted soil was excavated to depths ranging from 2' to 4' below grade until PID readings were recorded below 5 parts per million by volume (ppmv). A map showing the areas of excavation is included as **Figure 8**. It should be noted not all of AOC-1c was able to be excavated due to equipment stored in this area at the time of excavation.

Excavated soils were transported off-site for disposal at the Town of Tonawanda Landfill, Tonawanda, New York. A total of 213.8 tons of soil was excavated and disposed of. Disposal receipts are included in **Appendix C**.

A total of 292 tons of material was imported to the Site for use as backfill from NYSDEC Permitted Mine No. 90489. This material had been previously tested to ensure that this imported material did not exceed the applicable soil cleanup objectives for the use of the Site, as set forth in Tables 375-6.8(b), the lower of the protection of groundwater or the protection of public health soil cleanup objectives, for the identified use of the Site. A summary of the backfill sampling results is included as **Table 4**.

6.0 EX-SITU REMEDIAL ACTION PLAN

Ex-Situ Chemical Oxidation (ESCO) has been successfully implemented at several sites for VOC and SVOC impacts. For example, an industrial Superfund site was impacted from chlorinated solvents (Ref 11). A groundwater plume of VOCs had migrated 6,000 feet downgradient of the site, impacting the town's water supply. Previous remedial actions included building demolition, slurry wall construction to contain the contaminant source, construction of a groundwater pump and treat facility and *in-situ* remediation.

A consultant was contracted to treat 2,500 cubic yards (yd^3) of previously excavated tetrachloroethene (PCE) and trichloroethene (TCE) impacted soil. A combination of soil vapor extraction (SVE) and chemical oxidation via ozone and hydrogen peroxide were utilized on the project. Treatment consisted of constructing two (2) lined treatment cells each containing 1,250 yd^3 of soil supported by jersey barriers. A 6-inch gravel base on the liner prevented punctures and created a uniform, permeable zone beneath the soil to facilitate SVE and application of ozone. Sumps were installed to collect condensate. The remedial equipment was connected to the cells via an above grade piping manifold for alternating injection and extraction between the top and bottom laterals as well as between SVE and ozone/peroxide injection.

Thirty confirmatory samples were collected and analyzed for VOCs following one month of system operation. Upon confirmation that all samples met site SCOs, the treated soil was removed from the cells and backfilled into the excavation area.

Another example is from a site set in New Jersey (Ref 12) where soils and groundwater at the subject site had become contaminated with levels of perchloroethylene (PCE) and trichloroethylene (TCE) at concentrations in excess of 20,000 mg/kg and 100 mg/l, respectively. Chemical oxidation was implemented as an on-site ex situ approach to remediate 40,000 tons of contaminated soils containing approximately 32,000 lbs. of CVOCs. The treatment of the contaminated soils from a site wide average resulted in reduction of contamination levels to less than 5 mg/kg. Two major benefits of employing ESCO included the elimination of PCE and TCE in the soil and on-site re-use of the treated soils as opposed to costly offsite disposal as hazardous waste.

Based on the information collected during the site characterization/IRM activities as presented above, there are limited areas on-site where soil and groundwater impacts remain. Further details of these AOCs is presented in Section 6.1. In order to remediate these remaining areas and achieve on-site soil and groundwater contaminant concentrations where reclassification of the Site as closed with "No Further Action" required, AFI recommends excavation in sections of impacted soil (and associated groundwater) for on-site *Ex-Situ* Chemical Oxidation (ESCO) treatment. Once excavated soil has been laboratory certified as meeting site specific SCOs, the soils will be used as backfill for subsequent excavation of impacted soil until such time all soil in the limited areas described in Section 6.1 have been treated.

Details of the ESCO Remedial Action Plan (RAP) are presented in the following sections.

6.1 Pre-ESCO Activities

6.1.1 Site Inspection/Walkover

Prior to Site work, a Site inspection/walkover will be completed to mark out proposed locations of intrusive testing as required for utility clearance.

6.1.2 Utility Clearance

Dig Safely New York (Call 811 or similar) will be contacted by the site contractor a minimum of three business days in advance of the work and informed of the intent to perform intrusive work at the Site.

6.1.3 USEPA Notification

Traditional chemical oxidation remedial programs are conducted via injection wells to facilitate *in-situ* treatment. As part of the permitting process, the United States Department of Environmental Protection Agency (USEPA) requires filing of a Temporary Underground Injection Control (UIC) Permit outlining the injection wells to be utilized for the injection event. Since the remedial plan outlined in the preceding sections will not utilize injection wells, AFI does not anticipate filing a UIC permit is required but will confirm with USEPA prior to initiating ESCO activities. If one is necessary, AFI will obtain necessary USEPA permits and or approvals before using treated soil as backfill onsite.

6.2 Areas of Concern

6.2.1 Area of Concern 1c

As noted in Section 5.0 of this report, there is soil remaining in AOC-1c that was not able to be excavated due to equipment stored in this area at the time of excavation. A map showing the location and extent of the remaining soil in AOC-1c is included as **Figure 9**.

6.2.2 Area of Concern 2

As noted in Section 5.0 of this report, soil and groundwater impacts in AOC-2, as defined during the IRM, were not addressed. Based on results of the subsurface investigations conducted to-date at the Site, currently VOC and SVOC soil and groundwater impacts predominantly exist in the vicinity of GP-17 (adjacent to MW-3), MW-3, TP-1, TP-2, TP-3 and MW-7. Concentration of Manganese exceeding 6 NYCRR Part 375 6.8 (b) Commercial or Industrial SCO levels was identified in shallow soils at surface sample location SS-2. Therefore AOC-2 as defined during the IRM should be expanded to include the aforementioned sample locations. A map showing the location and extent of the revised AOC-2 is included as **Figure 9**.

6.2.3 Area of Concern 3

The area of greatest SVOC impact to groundwater on-site exists in MW-6. Therefore, this will be considered AOC-3. A map showing the location and extent of AOC-3 is included as **Figure 9**.

6.3 Estimated Area of Excavation and Treatment

Based on the soil and groundwater areas of concern noted above, AFI recommends excavation for treatment of all three areas of concern shown in **Figure 9**. The depth of the excavation of AOC-1c should be limited to approximately four (4) feet below grade (ftbg) as this was the terminal depth of the excavation in 2013. The depth of the excavation in AOC-2 and AOC-3 should be limited to the impacted fill material above the clay layer observed at approximately 12 to 15 ftbg. The footprint of AOC-1c is estimated to be approximately 800 square feet (ft^2). This area excavated to 4 ftbg results in an excavation of approximately 120 cubic yards (yd^3) or approximately 180 tons of soil. The footprint of the proposed excavation of AOC-2 is estimated to be approximately 7,900 ft^2. This area excavated to a depth of approximately 13 ftbg results in an excavation of approximately 3,800 yd^3 or approximately 5,700 tons of soil. The footprint of the proposed excavation AOC-3 is estimated to be approximately 750 ft^2. This area excavated to a depth of approximately 13 ftbg results in an excavation of approximately 360 yd^3 or approximately 550 tons of soil to be excavated and transported for disposal.

Taking the three proposed excavation areas into account, a total of 6,430 tons of soil is proposed for excavation and treatment.

6.4 Chemical Oxidants

Chemical oxidation (either *in-situ* or *ex-situ*) has been proven to be an effective remedial technology for the oxidation of VOCs and SVOCs in soils and groundwater. Strong oxidizers such as hydrogen peroxide, potassium permanganate and sodium permanganate can be utilized to chemically oxidize a wide variety of VOCs, including chlorinated compounds such as PCE and TCE, converting them into carbon dioxide and water.

6.4.1 Hydrogen Peroxide

When introduced into soil and groundwater, hydrogen peroxide (H_2O_2) is unstable, and will readily react with organic contaminants and other organic materials. Utilizing concentrations of hydrogen peroxide as low as 100 milligrams per liter (mg/L) can also cause oxygen concentrations in groundwater to exceed the solubility limit of oxygen in groundwater (typically 9-10 mg/L at atmospheric pressures and typical groundwater temperatures). When this occurs, oxygen gas is formed and is lost in the form of bubbles. Hydrogen peroxide alone is not capable of oxidizing VOCs; it typically requires a suitable catalyst in order to generate reactive hydroxyl radicals. The catalyst can be ozone, a metal catalyst such as ferrous iron, permanganate, or ultraviolet light. Hydrogen peroxide is particularly effective when it reacts with ferrous iron to produce Fenton's reagent. Ferrous iron may be naturally present in the soils and/or groundwater or can be enhanced through the addition of reagents such as ethylene diamene tetra acetic acid (EDTA) or iron salts such as ferric sulfate.

Catalyzed hydrogen peroxide (CHP) is a mixture of hydrogen peroxide (H2O2) and an iron catalyst such as iron-EDTA or acidified ferrous iron that can potentially oxidize a wide range of VOCs. The simplified reaction is presented below:

$Fe_2+ + H_2O_2 \rightarrow Fe_3+ + OH- + \bullet OH$

If iron is naturally occurring in groundwater or present in soil, then it may be possible to achieve the similar reactivity with H2O2 and EDTA, since the EDTA will chelate the iron and help keep it in solution. Iron can precipitate as $Fe(OH)_3$ at high pH and the solid iron will catalytically decompose peroxide. Anecdotal evidence indicates that this occurs frequently during ISCO with H_2O_2 and iron. Chelating agents, such as EDTA, minimize the precipitation of iron and create favorable conditions for the catalytic production of hydroxyl radicals.

Like all oxidants, CHP may potentially have long term or short term secondary effects such as oxidation of soil-bound metals or mobilization of metals due to the presence of a chelating agent or changes in pH. The magnitude and duration of any such changes are site-specific and may or may not be significant. Additionally, the CHP reaction rate can be accelerated due to magnesium oxides onsite. This can lead to an uncontrolled reaction while using hydrogen peroxide.

6.4.2 Permanganate

Chlorinated VOCs may also be oxidized via permanganate. Permanganate is commercially available as both potassium and sodium salts. Potassium permanganate is solid purple crystal that is typically applied as a 1 to 7% solution. Sodium permanganate is a dark purple solution that can be applied at concentrations ranging from 10% to 40%. Permanganate is a milder oxidant in comparison to hydrogen peroxide, and can rapidly convert a wide range of chlorinated VOCs to carbon dioxide, water, and chloride ions. The permanganate is reduced to insoluble manganese dioxide during the reaction. Permanganate oxidation involves a direct electron transfer unlike other oxidants, such as persulfate and hydrogen peroxide, which use a free radical process. Permanganate has a unique affinity for oxidizing organic compounds containing carbon-carbon double bonds, aldehyde groups or hydroxyl groups. As an electrophile, the permanganate ion is strongly attracted to the electrons in carbon-carbon double bonds found in chlorinated alkenes, borrowing electron density from these bonds to form a bridged, unstable oxygen compound known as the cyclic hypomanganate ester. This intermediate product further reacts by a number of mechanisms including hydroxylation, hydrolysis or cleavage. Under most naturally occurring pH and temperature conditions, the carbon-carbon double bond of alkenes is broken spontaneously and the unstable intermediates are converted to carbon dioxide through either hydrolysis or further oxidation by the permanganate ion.

Due to the unstable and potentially uncontrollable reactive nature of hydrogen peroxide and ozone, 10% sodium permanganate has been selected for use at this site. Sodium permanganate was selected over potassium permanganate due to the higher application concentration available, thereby reducing the number of treatment days and overall cost.

6.5 Treatment Design

6.5.1 Treatment Pad Plan

The anticipated location of the treatment pad is shown on **Figure 10**. The treatment pad will be constructed of concrete barriers such as "jersey" barriers to contain the soil to be treated. AFI estimates a 70x70 foot treatment pad would be required. A liner, such as 6-mil poly, will be placed over the entire interior of the jersey barrier enclosure and will extend up and over the barriers. This will prevent any condensate or liquids in the soil from running out of the treatment area. A sump will be constructed at the downgradient end of the treatment pad to collect any leachate from the soil. Approximately 6-inches of gravel will be placed on top of the liner to protect the liner and sump system as well as allow any leachate to collect in the sump. Collected leachate will be either treated and discharged on-site or transported off-site for disposal depending on the amount of leachate generated by treatment. Once the soil has been placed on the treatment pad, the pad will be covered with poly. This will reduce the potential for fugitive vapors and/or odors from the treatment to create a nuisance in the surrounding community. Additionally, the cover will minimize leachate production due to precipitation.

6.5.2 Excavation Plan

AFI recommends soil be excavated approximately 1,000 tons at a time, until all soils have been treated. This would result in an approximate 3.5 foot thickness of soil in the 70x70 foot treatment cell. Since AFI estimates a total of approximately 6,430 tons of soil would need to be excavated, a series of approximately six individual excavations will be completed. An excavation sequencing and proposed treatment pad location is shown in **Figure 10**. Soil from Phase 1 comprising of AOC-1c and AOC 2 would be excavated first for processing and treatment by HWI. These excavated areas will be backfilled with imported clean backfill to restore the excavations to match the existing grade.

From this point on, once the soil in the treatment pad has been tested and certified as meeting appropriate SCOs as described in Section 6.3.4, excavation will proceed to next Phase as shown on **Figure 10.** Upon completion of the designated exaction area, the treated soil from the previous excavation will be used as backfill. For excavations in AOC-3, since not all of the impacted soil will be excavated at once, each partial excavation will be lined with 6-mil poly before backfilling to prevent potentially contaminated groundwater from impacting the treated soil used as backfill.

All intrusive excavation activities will be conducted with appropriate Community Air Monitoring Plan (CAMP) precautions as outlined in Section 8.2.

6.5.3 Excavation Confirmatory Endpoint Sampling Plan

Excavation confirmatory endpoint samples from each excavation would be collected in accordance with NYSDEC DER-10 (Ref 2). As stated in Section 3.2.1, “Characterization sampling should be biased to the suspected location of greatest contamination” and section 5.4(b)5.ii(2), to achieve subsurface soil cleanup levels, “one sample from each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area” will be collected. Please note excavation sidewall samples will not be collected from sidewalls adjacent to any area planned for excavation at a later date. Additionally, floor samples will not be collected AOC-2 and AOC-3 where the excavation will extend to the confining clay layer.

Since soil sampling conducted during previous investigations has shown, with the exception of Manganese at SS-2 (discussed in Section 6.3.5), on-site soil meets NYCRR Part 375 6.8 (b) Industrial SCOs for metals and PCBs, confirmatory soil samples will be sent for analysis of TCL VOCs via EPA Method 8260, TCL SVOCs via EPA Method 8270 only. **Table 5** shows the anticipated proposed excavation confirmatory sample collection and analytical program.

If confirmatory sampling indicates remaining soil has concentrations of VOCs and/or SVOCs exceeding 6 NYCRR Part 375 6.8 (b) Industrial SCOs, additional excavation will be conducted in the affected areas. If additional excavation is not feasible due to at grade structures, below grade utilities or property line constraints, the area will be treated with an oxygen release compound (ORC) slurry such as Regenesis ORC-A to mitigate remaining impacts.

6.5.4 Treatment Plan

AFI anticipates HWI will utilize a hopper fed pug mill (or similar technology) to facilitate mixing the soil and chemicals. As the excavated soil is processed through the mixing equipment, a 10% sodium permanganate solution will be applied at a rate of approximately 4.35 gallons per ton of soil. The pug mill or similar technology will thoroughly mix the soil and oxidants resulting in an even distribution of oxidants throughout the soil. AFI estimates approximately 28,000 gallons of 10% sodium permanganate will be needed to treat 6,430 tons of soil. The soil will be placed into the treatment pad and allowed sufficient time for the chemical reactions to take place.

All treatment activities that involve handling and/or moving soil will be conducted with appropriate Community Air Monitoring Plan (CAMP) precautions as outlined in Section 8.2.

6.5.5 Treatment Confirmatory Sampling Plan

Approximately two weeks after soil has been treated, confirmatory soil sampling will be conducted to determine if treated soil meets 6 NYCRR Part 375 6.8 (b) Industrial SCOs. The treatment pad is designed to hold approximately 635 yd^3 of soil. Per NYSDEC DER-10 (Ref 2) guidelines, six (6) discrete samples for VOCs and two (2) composite samples for SVOC, Inorganics and PCB/Pesticides are recommended for 500-800 cubic yards of soil. Therefore, the treatment pad will be divided into three quadrants and an excavator or similar equipment will be used to collect a grab sample from near the top as well as near the bottom of the soil in each of the quadrants. These six grab samples will be used for used for the recommended discrete and composite sampling as previously noted.

Since soil sampling conducted during previous investigations has shown, with the exception of Manganese at SS-2 (discussed in Section 6.3.5), on-site soil meets NYCRR Part 375 6.8 (b) Industrial SCOs for metals and PCBs, confirmatory soil samples will be sent for analysis of TCL VOCs via EPA Method 8260, TCL SVOCs via EPA Method 8270 only. **Table 6** shows the anticipated proposed excavation confirmatory sample collection and analytical program.

If laboratory analytical data indicates the treated soil has concentrations of VOCs and/or SVOCs exceeding 6 NYCRR Part 375 6.8 (b) Industrial SCOs, the soil in the treatment pad will be re-processed as discussed in Section 6.3.3 followed by additional confirmatory sampling.

6.5.6 Manganese Impacted Soil Plan

As noted in Section 4.2, shallow surface soil in the vicinity of SS-2 returned a concentration of manganese (32,000 mg/kg) exceeding 6 NYCRR Part 375 6.8 (b) Industrial SCOs. Since the proposed remedial technology will not mitigate impacts due to metals and 6 NYCRR Part 375 6.8 (b) Industrial SCOs are proposed to be used for determining the endpoint for treatment, this soil will be excavated and segregated in a separate area for off-site disposal later. As discussed in Section 3.7, SS-2 was collected from the first 6-inches of soil. Therefore, an approximate 10x10 foot area surrounding SS-2 will be excavated to approximately two (2) ftbg to remove the metals impacted soil. A composite soil sample will be collected from the north and east sidewall, a composite sample will be collected from the south and west side wall and a sample will be collected from the floor of the excavation and sent for laboratory analysis for manganese via EPA Method 6010 to confirm no additional excavation is needed. **Table 7** shows the anticipated proposed manganese impacted soil confirmatory sample collection and analytical program.

If laboratory analytical data indicates remaining soil has a concentration of manganese exceeding 6 NYCRR Part 375 6.8 (b) Industrial SCOs, AFI will discuss with NYSDEC the appropriate action to take since additional investigation to determine the extent of manganese impacted soil in the vicinity of SS-2 may be appropriate.

6.6 Field Specific Quality Assurance/Quality Control Sampling

In addition to the soil groundwater samples described above, field-specific quality assurance/quality control (QA/QC) samples will be collected and analyzed to ensure the reliability of the generated data as described in the QAPP (see Section 7.0) and to support the required third-party data usability assessment effort. Site-specific QA/QC samples will include matrix spikes, matrix spike duplicates and blind duplicates.

6.7 Decontamination and Remediation Derived Waste Management

Every attempt will be made to use dedicated sampling equipment during the RI; however, if non-dedicated equipment is required and/or used, the equipment will be decontaminated, at a minimum, with a non-phosphate detergent (i.e., Alconox®) and potable water mixture, rinsed with distilled water, and air-dried before each use. All decontaminated sampling equipment will be kept in a clean environment prior to sample collection.

Sampling generated decontamination rinse water not exhibiting gross contamination (i.e., visible product, odor, sheen, etc.) will be discharged to the ground surface. Sampling-derived waste or those materials exhibiting gross contamination will be placed in sealed containers (e.g., NYSDOT approved drums) and labeled for subsequent characterization and disposal. All generated drums will be labeled with regard to contents, origin, and date of generation. Analytical results for associated waste material will be used to determine if waste can be returned to the ground surface, used on-site, or require treatment and/or off-site disposal. Drums will be securely staged on-site. Field personnel will coordinate the on-site handling and temporary storage of drums, including transportation, characterization sampling, and off-site disposal arrangements.

6.8 Site Mapping

A Site map showing sample points, limits of excavation and relevant Site features will be developed during the field work. AFI personnel will employ a handheld GPS unit to identify the locations of all soil sample locations.

6.9 Documentation

All remedial field activities will be documented in a Project Field Book. This field book will provide a record of activities conducted at the Site. Field notes will include, at a minimum, the following: date and time of all entries, names of all personnel on site, weather conditions (temperature, precipitation, etc.), location of activity, and description of activity. Sampling and excavation activities will be logged and photographed as necessary to document the activities at the site.

7.0 QUALITY ASSURANCE PROJECT PLAN

A Quality Assurance Project Plan (QAPP) has been prepared in support of the remedial activities. The QAPP dictates implementation of the investigation tasks delineated in this Work Plan. A Sampling and Analysis Plan (SAP) identifying methods for sample collection, decontamination, handling, and shipping, is provided below.

The QAPP will assure the accuracy and precision of data collection. The QAPP identifies procedures for sample collection to mitigate the potential for cross-contamination, as well as analytical requirements necessary to allow for independent data validation. The QAPP has been prepared in accordance with USEPA's *Requirements for Quality Assurance Project Plans for Environmental Data Operations* (Ref. 13); the EPA Region II CERCLA *Quality Assurance Manual* (Ref. 14), and NYSDEC's DER-10 *Technical Guidance for Site Investigation and Remediation* (Ref.1).

7.1 Scope of the QAPP

This QAPP was prepared to provide quality assurance (QA) guidelines to be implemented during the remedial activities. This document may be modified for subsequent phases of investigative work, as necessary. The QAPP provides:

- A means to communicate to the persons executing the various activities exactly what is to be done, by whom, and when.
- A culmination to the planning process that ensures that the program includes provisions for obtaining quality data (e.g., suitable methods of field operations).
- A historical record that documents the investigation in terms of the methods used, calibration standards, and frequencies planned, and auditing planned.
- A document that can be used by the Project Manager's and QA Officer to assess if the activities planned are being implemented and their importance for accomplishing the goal of quality data.
- A plan to document and track project data and results.

- Detailed descriptions of the data documentation materials and procedures, project files, and tabular and graphical reports.

The QAPP is primarily concerned with the QA/QC aspects of the procedures involved in the collection, preservation, packaging, and transportation of samples; field testing; record keeping; data management; chain-of-custody procedures; laboratory analyses; and other necessary matters to assure that the remedial activities, once completed, will yield data whose integrity can be defended.

QA refers to the conduct of all planned and systematic actions necessary to perform satisfactorily all task-specific activities and to provide information and data confidence as a result of such activities. The QA for task-specific activities includes the development of procedures, auditing, monitoring, and surveillance of the performance.

QC refers to the activity performed to determine if the work activities conform to the requirements. This includes activities such as inspections of the work activities in the field (e.g., verification that the items and materials installed conform to applicable codes and design specifications).

7.2 QAPP Organization and Responsibility

The principal organizations involved in verifying achievement of data collection goals for the Site include: NYSDEC; NYSDOH; HWI; AFI (HWI's Engineering and Environmental Consultants); subcontractor(s); independent environmental laboratory; and independent third-party data validator. Roles, responsibilities, and required qualifications of these organizations are discussed in the following subsections.

7.2.1 NYSDEC and NYSDOH

It is the responsibility of the NYSDEC, in conjunction with the NYSDOH, to review the RAP and supporting documents for completeness and conformance with the site-specific cleanup objectives and to make a decision to accept or reject these documents based on this review. The NYSDEC also has the responsibility and authority to review and approve all QA documentation collected during remedial activities and to confirm that the QA Plan was followed.

7.2.2 HWI

HWI will be responsible for complying with the QA requirements as specified herein and for monitoring and controlling the quality of the remedial activities either directly or through their designated environmental consultant and/or legal counsel. HWI will also have the authority to select Remedial Action Contractor(s) to assist them in fulfilling these responsibilities. The designated Project Manager is responsible for implementing the project, and has the authority to commit the resources necessary to meet project objectives and requirements.

7.2.3 AFI Environmental

AFI is the prime environmental consultant on this project and is responsible for the implementation of the RAP, including, but not limited to, field operations, laboratory testing, data management, data analysis, and reporting. Any one member of AFI's staff may fill more than one of the identified project positions (e.g., field team leader and site safety and health officer). The various quality assurances, field, laboratory, and management responsibilities of key project personnel are defined below.

- AFI Project Manager (PM): William L. Heitzenrater has the responsibility for ensuring that the project meets the Work Plan objectives. The PM will report directly to the HWI Project Coordinator and the NYSDEC/NYSDOH Project Coordinators and is responsible for technical and project oversight. The PM will:
    - Define project objectives and develop a detailed work plan schedule.
    - Establish project policy and procedures to address the specific needs of the project as a whole, as well as the objectives of each task.
    - Acquire and apply technical and corporate resources as needed to assure performance within budget and schedule constraints.
    - Develop and meet ongoing project and/or task staffing requirements, including mechanisms to review and evaluate each task product.
    - Review the work performed on each task to assure its quality, responsiveness, and timeliness.
    - Review and analyze overall task performance with respect to planned requirements and authorizations.
    - Review and approve all deliverables before their submission to NYSDEC.

  - Develop and meet ongoing project and/or task staffing requirements, including mechanisms to review and evaluate each task product.
  - Ultimately be responsible for the preparation and quality of interim and final reports.
  - Represent the project team at meetings.

- AFI Sr. Geologist: Steven Leitten has the responsibility for implementation of specific project tasks identified at the Site, and is responsible for the supervision of project field personnel and subcontractors. The Sr. Geologist reports directly to the Project Manager. The Sr. Geologist will:
  - Define daily work activities.
  - Orient field staff concerning the project's special considerations.
  - Monitor and direct subcontractor personnel.
  - Review the work performed on each task to ensure its quality, responsiveness, and timeliness.
  - Assure that field activities, including sample collection and handling, are carried out in accordance with this QAPP.

- AFI SSHO: Elby Benton the Site Health and Safety Officer (SHSO) is responsible for implementing the procedures and required components of the Site Health and Safety Plan (HASP), determining levels of protection needed during field tasks, controlling site entry/exit, briefing the field team and subcontractors on site-specific health and safety issues, and all other responsibilities as identified in the HASP.

7.3 Quality Assurance (QA) Responsibilities

1. The QA Officer will have direct access to corporate executive staff as necessary, to resolve any QA dispute, and is responsible for auditing the implementation of the QA program in conformance with the demands of specific investigations and AFI policies, and NYSDEC requirements.
2. The QA Officer has sufficient authority to stop work on the investigation as deemed necessary in the event of serious QA issues.

3. Project QA Officer: Kenneth R. Applin, Ph.D. Specific function and duties include:
    a. Performing QA audits on various phases of the field operations.
    b. Reviewing and approving QA plans and procedures.
    c. Providing QA technical assistance to project staff.
    d. Reporting on the adequacy, status, and effectiveness of the QA program on a regular basis to the Project Manager for technical operations
    e. Responsible for assuring third party data review of all sample results from the analytical laboratory

7.4 Field Responsibilities

AFI field staff for this project is drawn from a pool of qualified resources. The Project Manager will use staff to gather and analyze data, and to prepare various task reports and support materials. All of the designated technical team members are experienced professionals who possess the degree of specialization and technical competence required to effectively and efficiently perform the required work.

7.5 Quality Assurance Objectives for Measurement Data

The overall objectives and criteria for assuring quality for this effort are discussed below. This QAPP addresses how the acquisition and handling of samples and the review and reporting of data will be documented. The objectives of this QAPP are to address the following:

- The procedures to be used to collect, preserve, package, and transport groundwater samples.
- Field data collection
- Record keeping
- Data management
- Chain-of-custody procedures
- Precision, accuracy, completeness, representativeness, decision rules, comparability, and level of quality control effort conformance for sample analysis and data management by the laboratory under EPA analytical methods.

7.6 Level of QC Effort for Sample Parameters

Field blank, method blank, trip blank, field duplicate, laboratory duplicate, laboratory control, standard reference materials (SRM) and matrix spike samples will be analyzed to assess the quality of the data resulting from the field sampling and analytical programs. QC samples are discussed below.

- Field and trip blanks consisting of distilled water will be submitted to the analytical laboratories to provide the means to assess the quality of the data resulting from the field sampling program. Field (equipment) blank samples are analyzed to check for procedural chemical constituents at the facility that may cause sample contamination. Trip blanks are used to assess the potential for contamination of samples due to contaminant migration during sample shipment and storage.
- Method blank samples are generated within the laboratory and used to assess contamination resulting from laboratory procedures.
- Duplicate samples are analyzed to check for sampling and analytical reproducibility.
- MS/MSD and MS/Duplicate samples provide information about the effect of the sample matrix on the digestion and measurement methodology. Depending on site-specific circumstances, one MS/MSD or MS/Duplicate should be collected for every 20 or fewer investigative samples to be analyzed for organic and inorganic chemicals of a given matrix (**Tables 5, 6 and 7**).

The general level of QC effort will consist of one field (blind) duplicate and one field blank (when non-dedicated equipment is used) for every 20 or fewer investigative samples of a given matrix. Additional sample volume will also be provided to the laboratory to allow one site-specific MS/MSD or MS/Duplicate for every 20 or fewer investigative samples of a given matrix. One trip blank consisting of distilled, deionized water will be included along with each sample delivery group of aqueous VOC samples.

7.7 Sampling and Analysis Plan

The selection and rationale for the remedial sampling program and methods and protocol used to collect environmental samples (i.e., soil/fill and groundwater) is discussed in Section 6.0 of this RAP.

Tables 5, 6 and 7 summarizes the number and types of environmental samples to be collected. The sampling program and related Site activities are discussed below. To the extent allowed by existing physical conditions at the facility, sample collection efforts will adhere to the specific methods presented herein. If alternative sampling locations or procedures are implemented in response to facility specific constraints, each will be selected on the basis of meeting data objectives. Such alternatives will be approved by NYSDEC before implementation and subsequently documented for inclusion in the project file.

7.7.1 Custody Procedure

Sample custody is controlled and maintained through the chain-of-custody procedures. Chain of custody is the means by which the possession and handling of samples will be tracked from the source (field) to their final disposition (laboratory). A sample is considered to be in a person's custody if it is in the person's possession or it is in the person's view after being in his or her possession or it was in that person's possession and that person has locked it in a vehicle or room. Sample containers will be cleaned and preserved at the laboratory before shipment to the Site. The following sections describe procedures for maintaining sample custody from the time samples are collected to the time they are received by the analytical laboratory.

7.7.2 Sample Storage

Samples are stored in secure limited-access areas. Walk-in coolers or refrigerators are maintained at 4°C, ±2°C, or as required by the applicable regulatory program. The temperatures of all refrigerated storage areas are monitored. Deviations of temperature from the applicable range require corrective action, including moving samples to another storage location if necessary.

7.7.3 Sample Custody

Sample custody is defined by this document as when any of the following occur:

- It is in someone's actual possession.
- It is in someone's view after being in his or her physical possession.

- It was in someone’s possession and then locked, sealed, or secured in a manner that prevents unsuspected tampering.
- It is placed in a designated and secured area.

Samples are removed from storage areas by the sample custodian or analysts and transported to secure laboratory areas for analysis. Access to the laboratory and sample storage areas is restricted to laboratory personnel and escorted visitors only; all areas of the laboratory are therefore considered secure. If required by the applicable regulatory program, internal chain-of-custody is documented in a log by the person moving the samples between laboratory and storage areas.

Laboratory documentation used to establish chain of custody (COC) and sample identification may include the following:

- Field COC forms or other paperwork that arrives with the sample.
- The laboratory COC.
- Sample labels or tags are attached to each sample container.
- Sample custody seals.
- Sample preparation logs (i.e., extraction and digestion information) recorded in hardbound laboratory books that are filled out in legible handwriting, and signed and dated by the chemist.
- Sample analysis logs (e.g., metals, GC/MS, etc.) information recorded in hardbound laboratory books that are filled out in legible handwriting, and signed and dated by the chemist.
- Sample storage log (same as the laboratory COC).
- Sample disposition log, which documents sample disposal by a contracted waste disposal company.

7.7.4 Sample Tracking

All samples are maintained in the appropriate coolers prior to and after analysis. The analysts remove and return their samples as needed. Samples that require internal COC are relinquished to the analysts by the sample custodians. The analyst and sample custodian must sign the original COC relinquishing custody of the samples from the sample custodian to the analyst. When the samples are returned, the analyst will sign the original COC returning sample custody to the sample custodian. Sample extracts are relinquished to the instrumentation analysts by the preparatory analysts. Each preparation department tracks internal COC through their logbooks/spreadsheets.

Any change in the sample during the time of custody will be noted on the COC (e.g., sample breakage or depletion).

7.7.5 Split Sampling

During the RI, the NYSDEC may split any soil/fill or groundwater samples at the NYSDEC's expense. AFI personnel will cooperate with the NYSDEC to facilitate split sampling, as requested.

7.8 Field Instrument Calibration and Frequency

Quantitative field data to be obtained during groundwater sampling include pH, turbidity, specific conductance, temperature, and depth to groundwater. Quantitative water level measurements will be obtained with an electronic sounder or steel tape, which require no calibration. Quantitative field data to be obtained during soil sampling include screening for the presence of volatile organic constituents using a PID.

AFI field personnel will calibrate field instruments in accordance with manufacturer specifications. At a minimum, instruments will be calibrated at the start of each workday. Calibration results will be recorded on the appropriate field forms and in the Project Field Book.

7.9 Analytical Procedures

Samples collected during this investigation field sampling activities will be analyzed by a NYSDOH ELAP approved laboratory.

7.10 Data Usability Evaluation

Data usability evaluation procedures shall be performed for both field and laboratory operations as described below.

7.10.1 Procedures Used to Evaluate Field Data Usability

The performance of all field activities, calibration checks on all field instruments at the beginning of each day of use, manual checks of field calculations, checking for transcription errors and review of field log books is the responsibility of the AFI field representative.

7.10.2 Procedures Used to Evaluate Laboratory Data Usability

If data evaluation will be performed by the third-party data validator, it will be conducted using the most current methods and quality control criteria from the USEPA's Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (Ref. 16), and Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review (Ref. 17). The data review guidance will be used only to the extent that it is applicable to the SW-846 methods; SW-846 methodologies will be followed primarily and given preference over CLP when differences occur. Also, results of blanks, surrogate spikes, MS/MSDs, and laboratory control samples will be reviewed/ evaluated by the data validator. All sample analytical data for each sample matrix shall be evaluated. The third-party data validation expert will also evaluate the overall completeness of the data package. Completeness checks will be administered on all data to determine whether deliverables specified in this QAPP are present. The reviewer will determine whether all required items are present and request copies of missing deliverables.

8.0 ESCO RAP SUPPORT DOCUMENTS

8.1 Health and Safety Plan

A Site Health and Safety Plan (HASP) has been prepared in accordance with 40 CFR 300.150 of the NCP and 29 CFR 1910.120 for the proposed RAP activities. A copy of the HASP is included as **Appendix E** of this Work Plan. The HASP will be enforced by AFI and any AFI subcontractors engaged in RAP field activities in accordance with the requirements of 29 CFR 1910.120. The HASP covers on-site investigation and interim remedial activities. Subcontractors will be required to develop and implement a HASP as or more stringent than AFI's HASP. Health and safety activities will be monitored throughout the Remedial Investigation. A member of the field team will be designated to serve as the on-site Health and Safety Officer throughout the field program. This person will report directly to the Project Manager and the Corporate Health and Safety Coordinator. The HASP will be subject to revision as necessary, based on new information that is discovered during the field investigation. The HASP also includes a contingency plan that addresses potential site-specific emergencies.

8.2 Community Air Monitoring Plan

Real-time community air monitoring will be performed during all soil disturbance RAP activities at the Site. A CAMP is included as **Appendix F**. Particulate and VOC monitoring will be performed along the downwind perimeter of the work area during subgrade excavation, grading, and soil handling activities in accordance with this plan. The CAMP is consistent with the requirements for community air monitoring at remediation sites as established by the New York State Department of Health (NYSDOH) and NYSDEC. Accordingly, it follows procedures and practices outlined under NYSDOH's *Generic Community Air Monitoring Plan* (dated December 2002) and NYSDEC Technical Assistance and Guidance Memorandum (TAGM) 4031: F*ugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites*.

9.0 REPORTING AND SCHEDULE

Upon completion of the RAP fieldwork, a Final Engineering Report (FER) will be completed as described below.

9.1 Final Engineering Report

The FER will include the following information and documentation, consistent with the NYSDEC's DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 2).

- Introduction and background.
- A description of the site and the overall scope of the remedial activities.
- A description of the field procedures, methods and remediation performed during the RAP.
- A discussion of the nature and rationale for any significant variances from the scope of work described in this Work Plan.
- The data obtained during the RAP and historical data considered to be of useable quality.
- The results of an assessment of the achievement of RAP acceptance/performance criteria as specified in the QAPP.
- "As-Built" drawings which include all soils removed, indicating the surveyed limits of the excavation and location of all final documentation samples.
- Identification of the applicable institutional controls employed with a copy of the environmental easement or other institutional controls that apply.
- The approved Site Management Plan (SMP) as outlined below.
- The conclusions of the qualitative exposure assessment and fish and wildlife impact analysis, if applicable.
- Conclusions regarding the effectiveness of the RAP conducted with respect to the comparative criteria and remedial action objectives (RAOs) established for the Site.
- Supporting RAP data. These will include boring logs, monitoring well construction diagrams, laboratory analytical reports, field inspection forms, disposal documentation, etc.

In addition, a Data Usability Summary Report (DUSR) will be prepared, with appropriate data qualifiers added to the results. The DUSR will follow NYSDEC format per the NYSDEC's September 1997 DUSR guidelines and May 2010 DER-10 guidance. The DUSR and any necessary qualifications to the data will be appended to the RI report.

AFI will provide all submittals to the NYSDEC in accordance with EDD requirements.

9.2 Site Management Plan

If deemed necessary, a SMP will be completed to outline any Institutional Controls (IC), Engineering Controls (EC) and or monitoring necessary to ensure safe reuse of the property.

Components of the SMP will include as applicable:

- Institutional and Engineering Control (IEC) plan
- Monitoring Plan
- Operation and Maintenance Plan

All components of the SMP will be drafted in accordance with guideline outlined in NYSDEC DER-10 (Ref 2).

9.3 Project Schedule

Shown below is an estimated project schedule for the RAP and major environmental tasks to be performed.

August 2014	Submittal of RI/IRM Report / ESCO RAP and review by NYSDEC
September 2014	NYSDEC approval of RAP and begin implementation of RAP
September 2014 – September 2015	RAP Active
November 2015	Submittal of FER - SMP to NYSDEC
December 2015	Issuance of Certificate of Completion

10.0 REFERENCES

1. AFI Environmental. *Site Characterization Work Plan*. February 2013
2. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation.* May 2010.
3. Roy F Weston, Inc. *Final Report*. January 1999.
4. Malcolm Pirnie, Inc. *Site Investigation Report*. December 2001.
5. AFI Environmental. *Phase II "Limited" Environmental Site Assessment*. September 2012.

6. AFI Environmental. *Site Characterization Work Plan*. February 2013.

7. United States Department of Agriculture (USDA). *Soil Conservation Service Website*. http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx.

8. Edward Buehler and Irving Tesmer. *Geologic Map of Erie County, N.Y. Bedrock Geology*. 1963.

9. Erie County, New York. *Internet Mapping Service*. N.p., n.d. Web. http://gis2.erie.gov/GC/ErieCountyNY/

10. NYSDEC Environmental Resource Mapper. *Environmental Resource Mapper*. N.p., n.d. Web. http://www.dec.ny.gov/animals/38801.html

11. Groundwater & Environmental Services. http://www.gesonline.com/sites/default/files/images/services/Ex-Situ%20Chemical%20Oxidation%20at%20Superfund%20Site.pdf

12. PeroxyChem. http://www.peroxychem.com/markets/environment/soil-and-groundwater/case-studies/klozur/klozur-case-study-h2o2-activation-exsitu-treatment-of-pce,-tce

13. U.S. Environmental Protection Agency. *Requirements for Quality Assurance Project Plans for Environmental Data Operations (EPA QA/R-5). October 1998.*

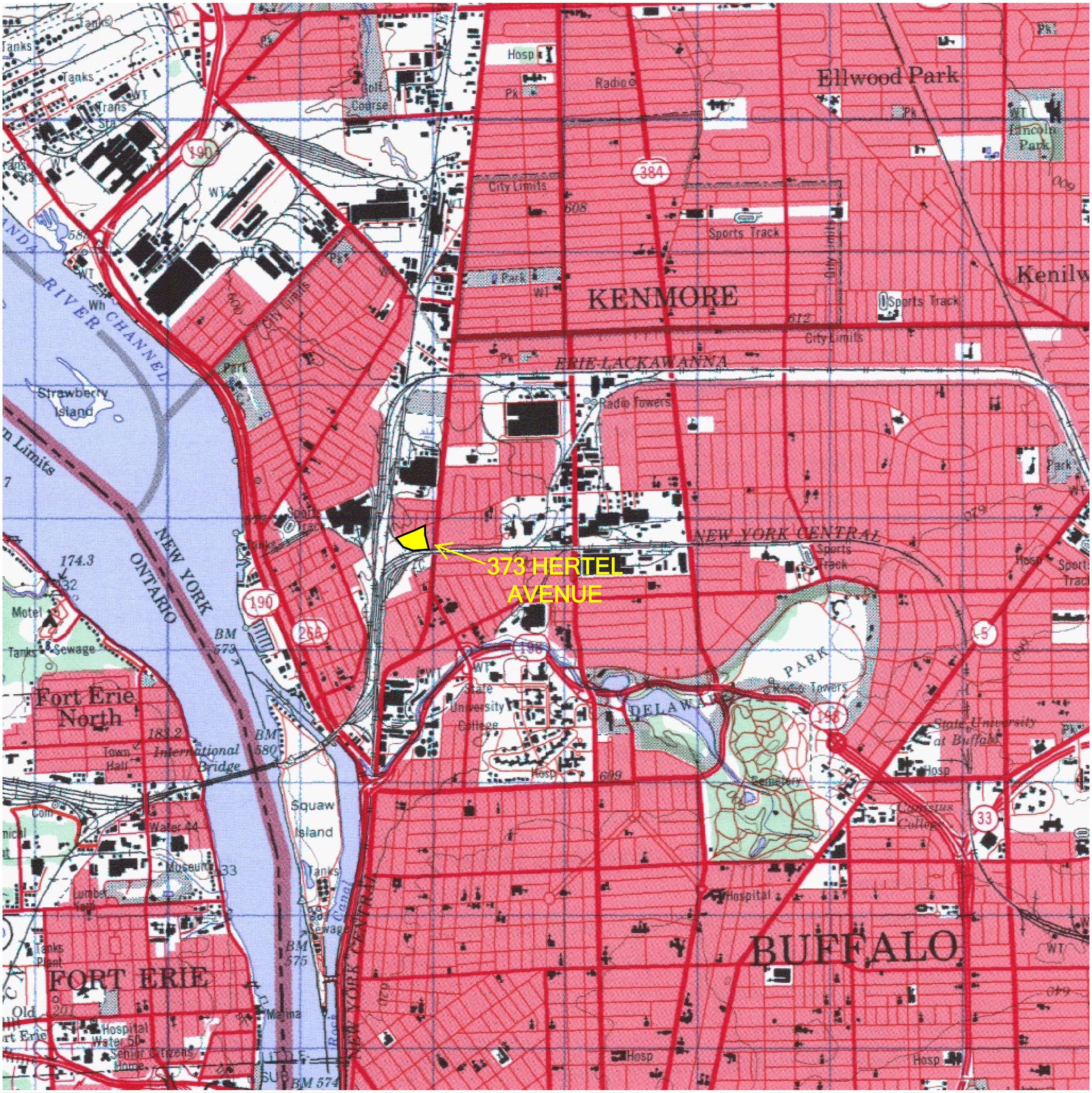
14. U.S. Environmental Protection Agency, Region II. *CERCLA Quality Assurance Manual, Revision I.* October 1989.

15. U.S. Environmental Protection Agency, *Methods for Chemical Analysis of Water and Wastes*, EPA 600/4-70-020. 1983b.

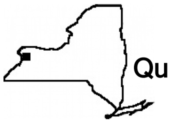
16. U.S. Environmental Protection Agency. *National Functional Guidelines for Organic Data Review* (EPA-540/R-94-012), 1994a.

17. U.S. Environmental Protection Agency. *National Functional Guidelines for Inorganic Data Review* (EPA-540/R-94-013), 1994b.

FIGURES



Source: United States Geological Survey (USGS) Topographic Map



Quadrangle Location

N

Scale: Undefined

AFI ENVIRONMENTAL

7815 Buffalo Avenue
Niagara Falls, NY 14304

SITE LOCATION MAP

Hertel Warehouse, Inc.

373 Hertel Avenue
Buffalo, NY 14207

Figure Number

1

Project Number

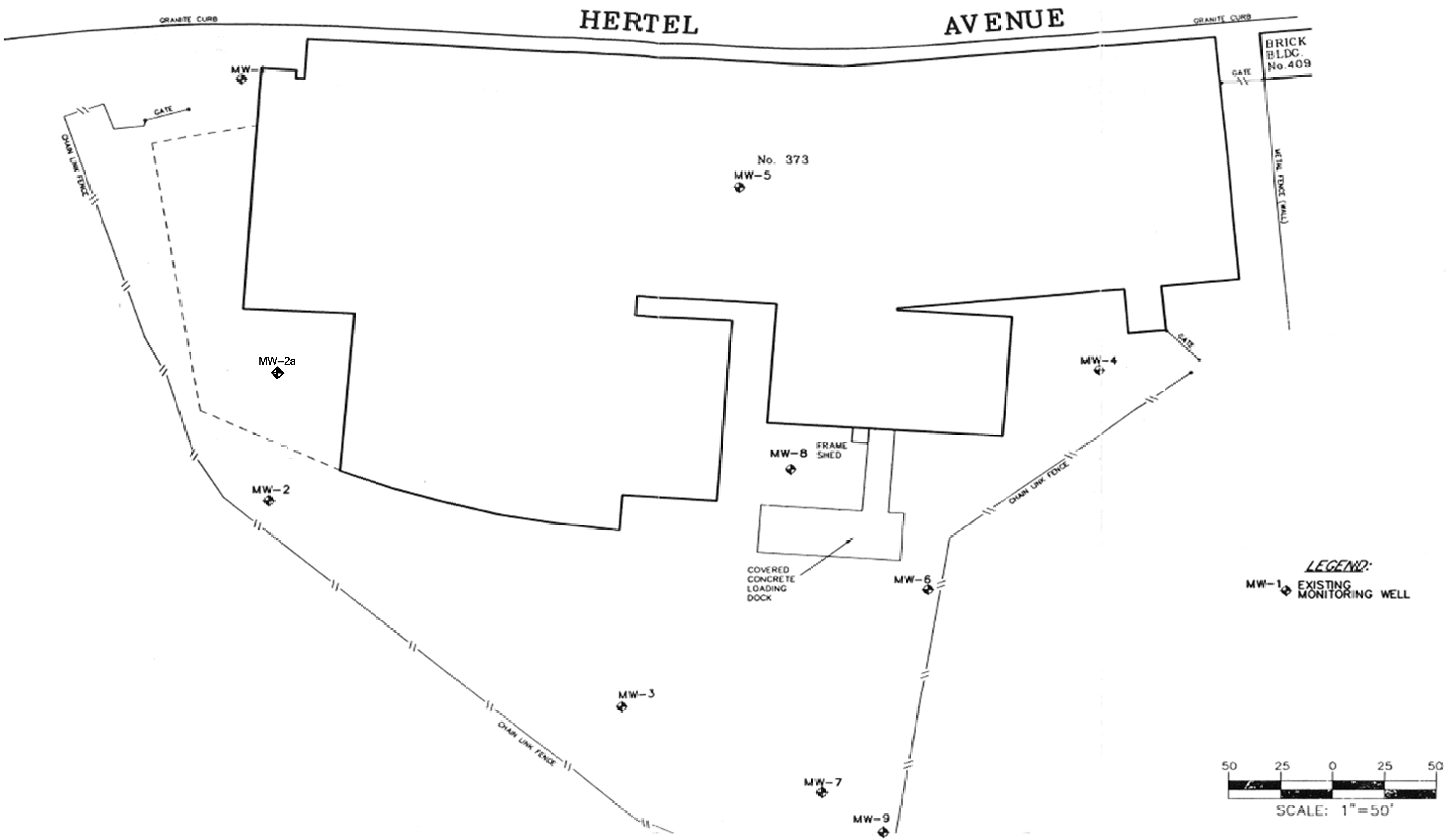
A12B- Hertel ENV

Date

7/28/2014

Revision

Rev2 ash



N

SITE MAP

HERTEL WAREHOUSE, INC.
373 HERTEL AVENUE, BUFFALO, NY 14207

AFI ENVIRONMENTAL

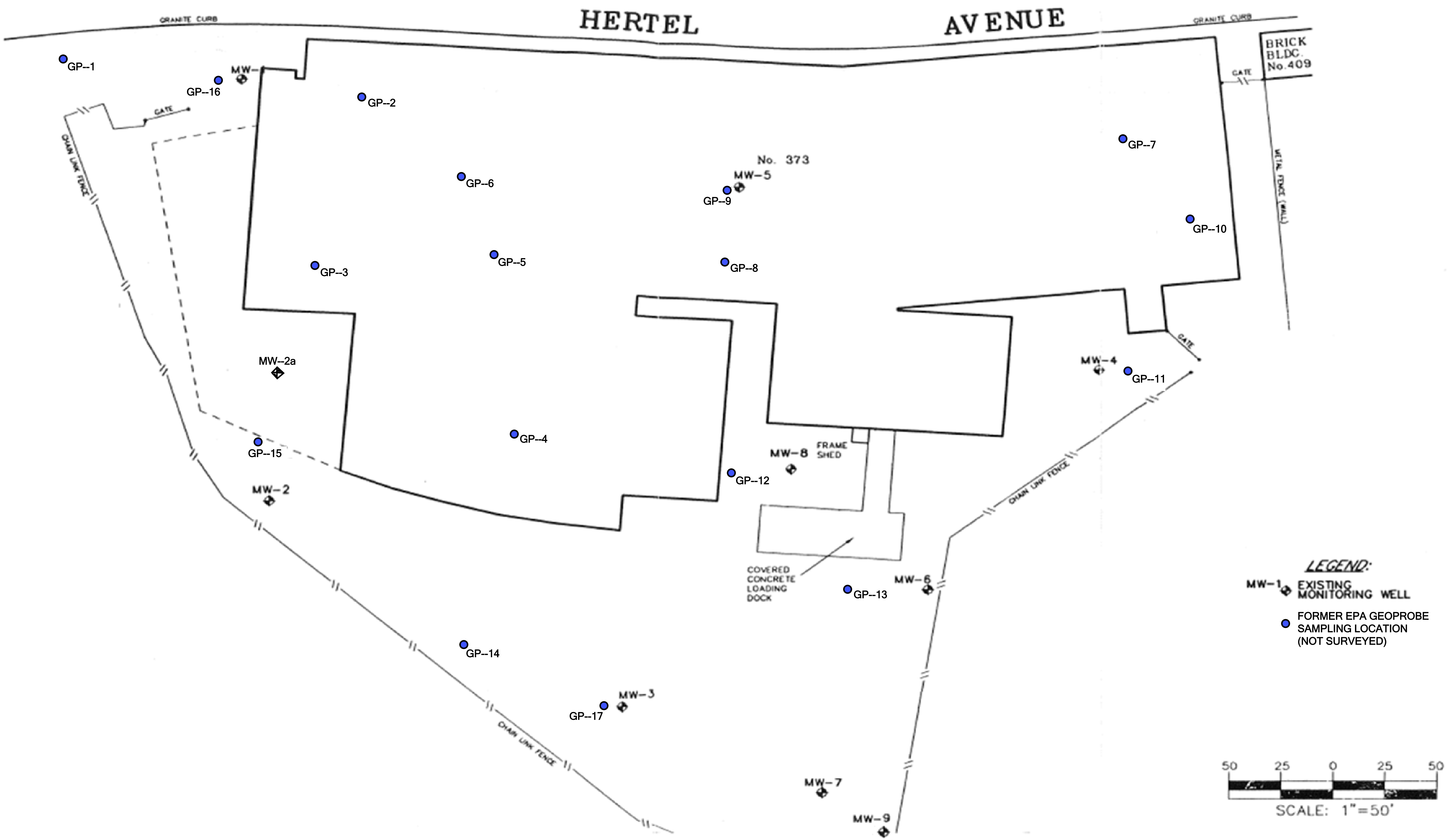
DATE
8/06/2014

SCALE
1"=50'

FIGURE NUMBER
2

PROJECT NUMBER
A12B-Hertel ENV

REVISION
Rev2 ash

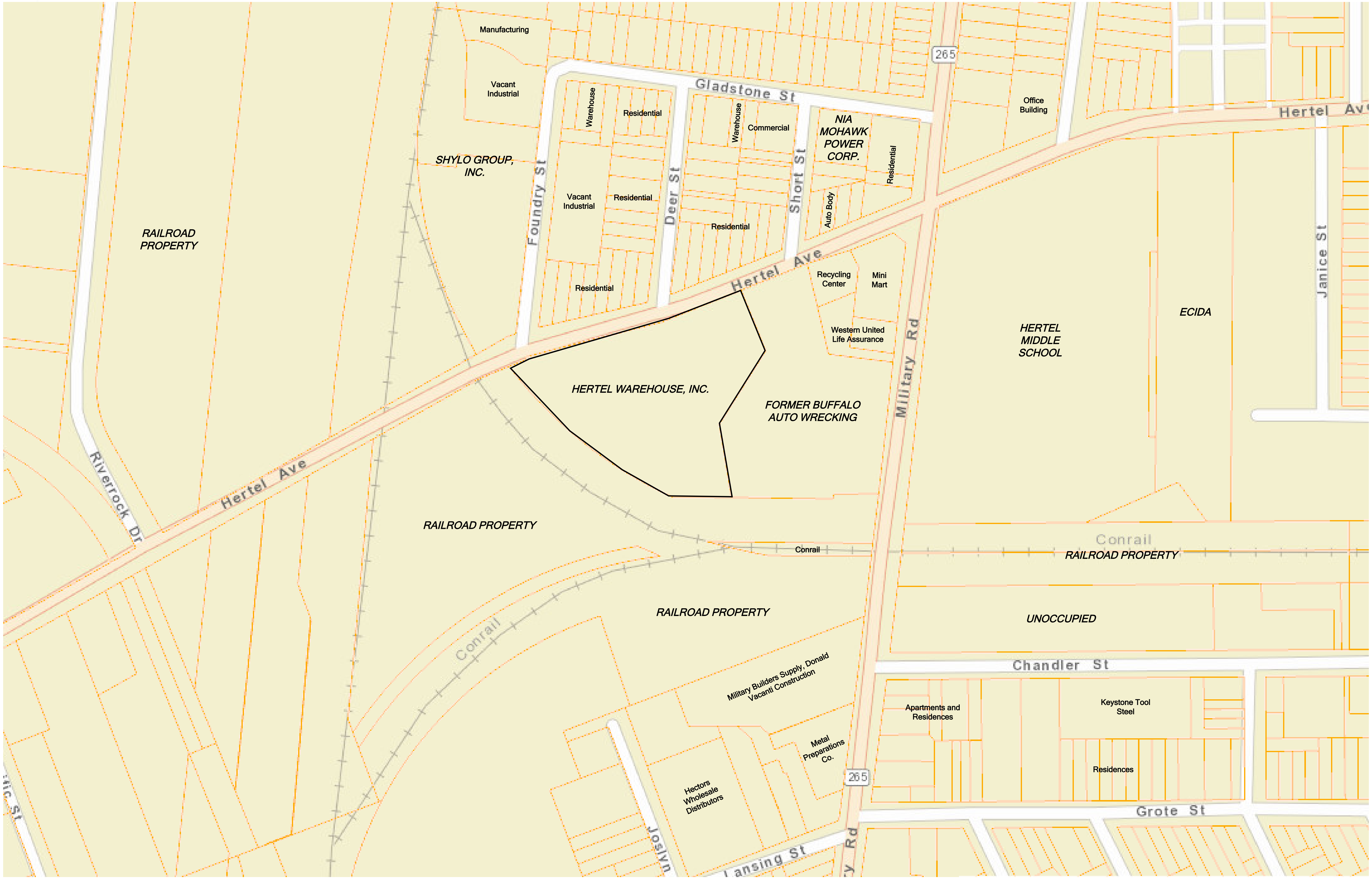


HISTORIC SOIL BORING AND MONITORING WELL LOCATIONS

HERTEL WAREHOUSE, INC.
373 HERTEL AVENUE, BUFFALO, NY 14207

AFI ENVIRONMENTAL

DATE	8/06/2014
SCALE	1"=50'
FIGURE NUMBER	3
PROJECT NUMBER	A12B-Hertel ENV
REVISION	Rev2 ash



Source: Erie County GIS, Erie County NY

SURROUNDING PROPERTY USES

HERTEL WAREHOUSE, INC.
373 HERTEL AVENUE, BUFFALO, NY 14207

AFI ENVIRONMENTAL

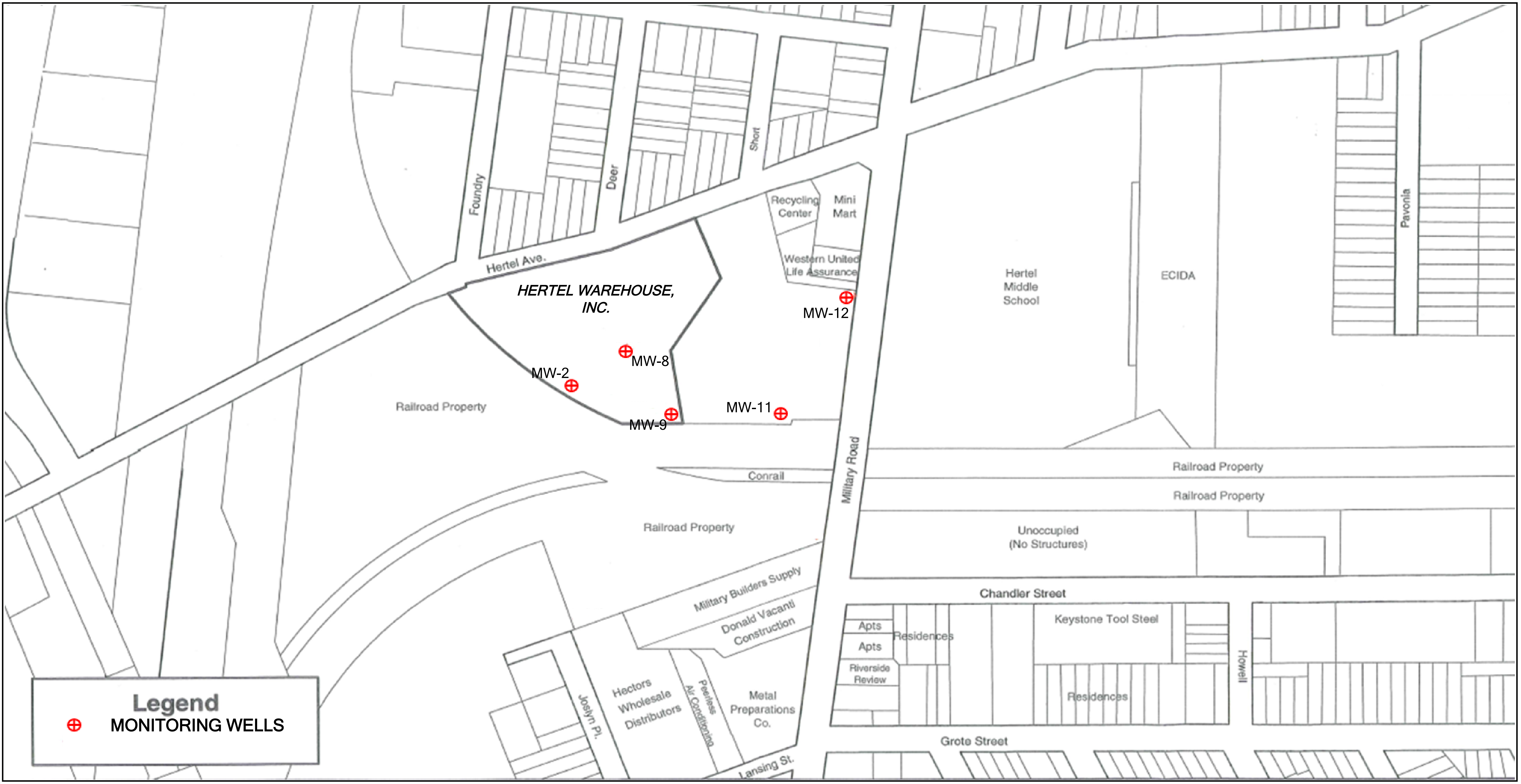
DATE
8/06/2014

SCALE
N/A

FIGURE NUMBER
4

PROJECT NUMBER
A12B-Hertel ENV

REVISION
Rev2 ash

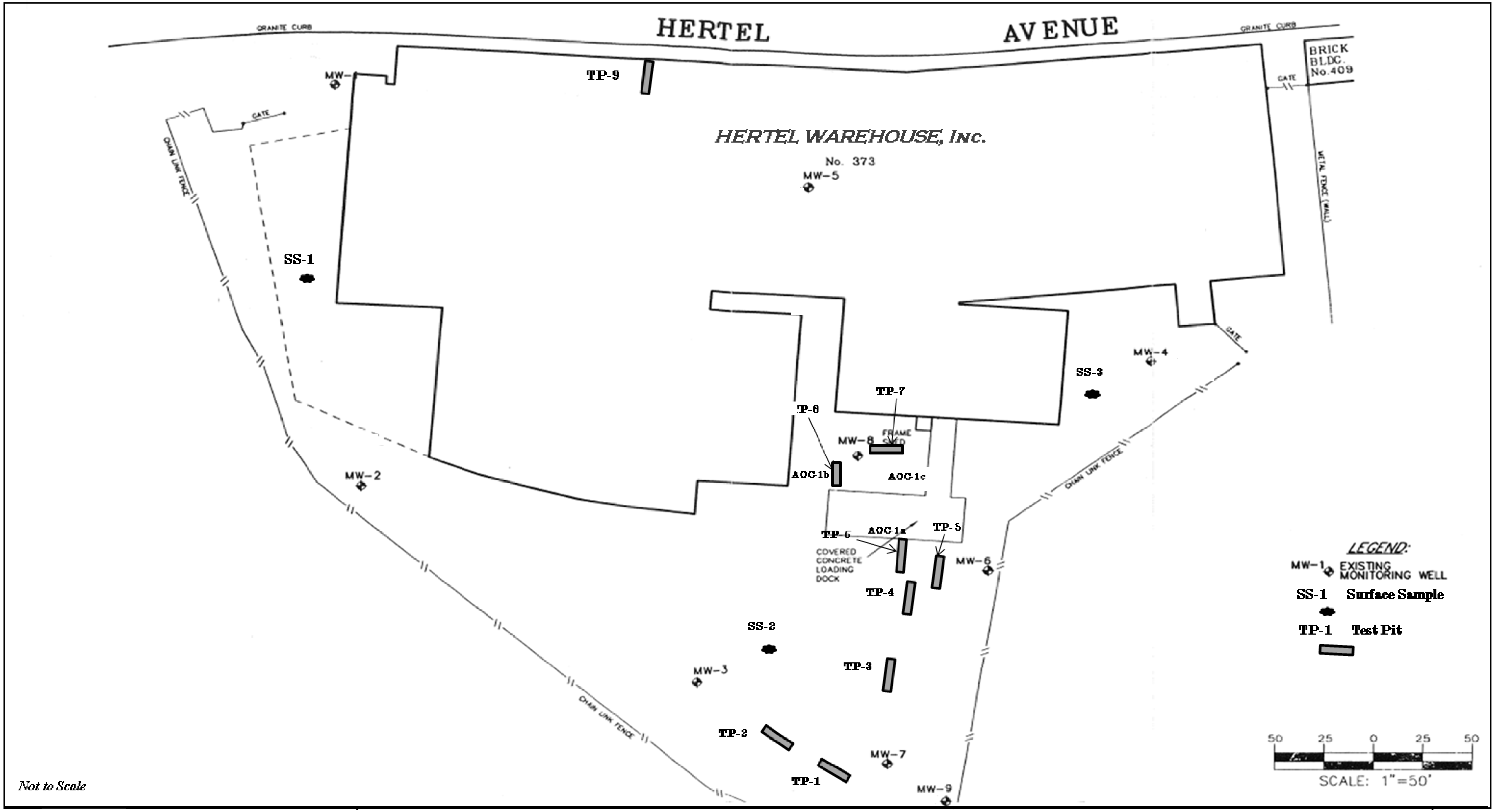


SITE CHARACTERIZATION MONITORING WELL LOCATIONS

HERTEL WAREHOUSE, INC.
373 HERTEL AVENUE, BUFFALO, NY 14207

AFI ENVIRONMENTAL

DATE	8/06/2014
SCALE	N/A
FIGURE NUMBER	5
PROJECT NUMBER	A12B-Hertel ENV
REVISION	Rev3 ash



N

SITE CHARACTERIZATION SOIL SAMPLE AND TEST PIT LOCATIONS

HERTEL WAREHOUSE, INC.
373 HERTEL AVENUE, BUFFALO, NY 14207

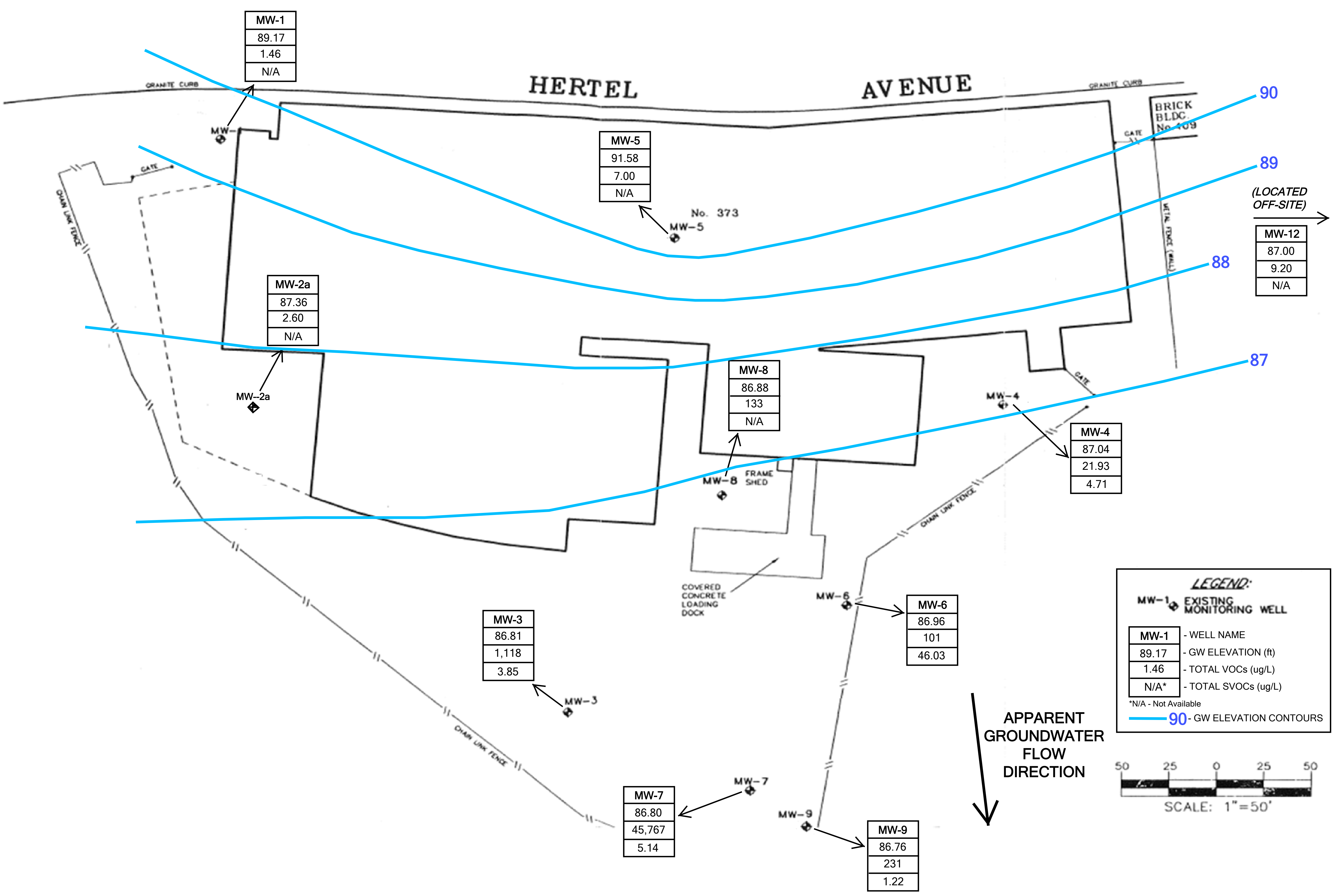
DATE
8/06/2014

SCALE
N/A

FIGURE NUMBER
6

PROJECT NUMBER
A12B-Hertel ENV

REVISION
Rev2 ash



Note:
Groundwater sample data taken 7/31/2013
Groundwater elevation measured 8/22/2013

GROUNDWATER MONITORING MAP
(7/31/2013 and 8/22/2013)

HERTEL WAREHOUSE, INC.
373 HERTEL AVENUE, BUFFALO, NY 14207

AFI ENVIRONMENTAL

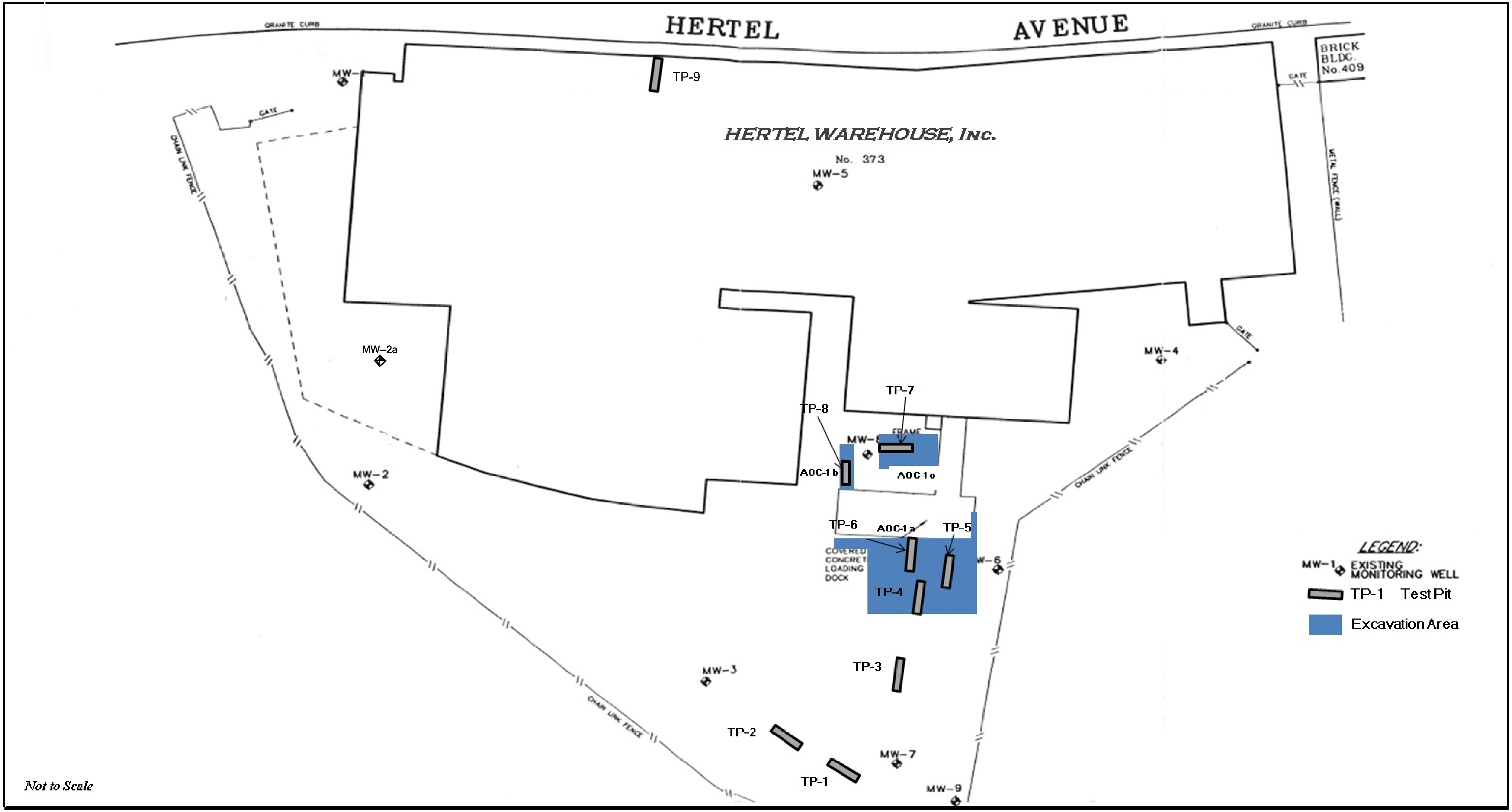
DATE
8/06/2014

SCALE
1"=50'

FIGURE NUMBER
7

PROJECT NUMBER
A12B-Hertel ENV

REVISION
Rev3 ash



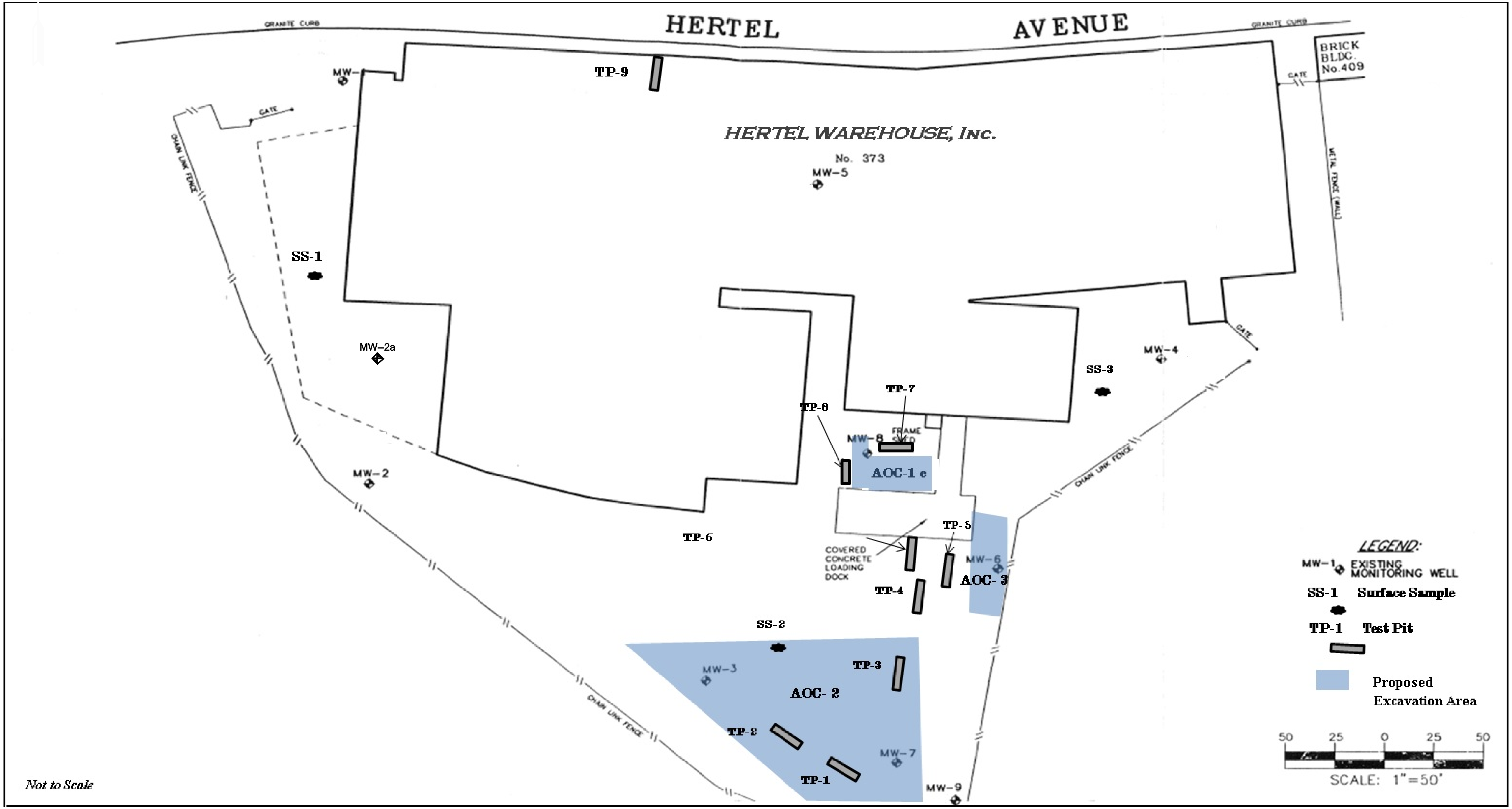
N

IRM EXCAVATION LOCATIONS

HERTEL WAREHOUSE, INC.
373 HERTEL AVENUE, BUFFALO, NY 14207

AFI ENVIRONMENTAL

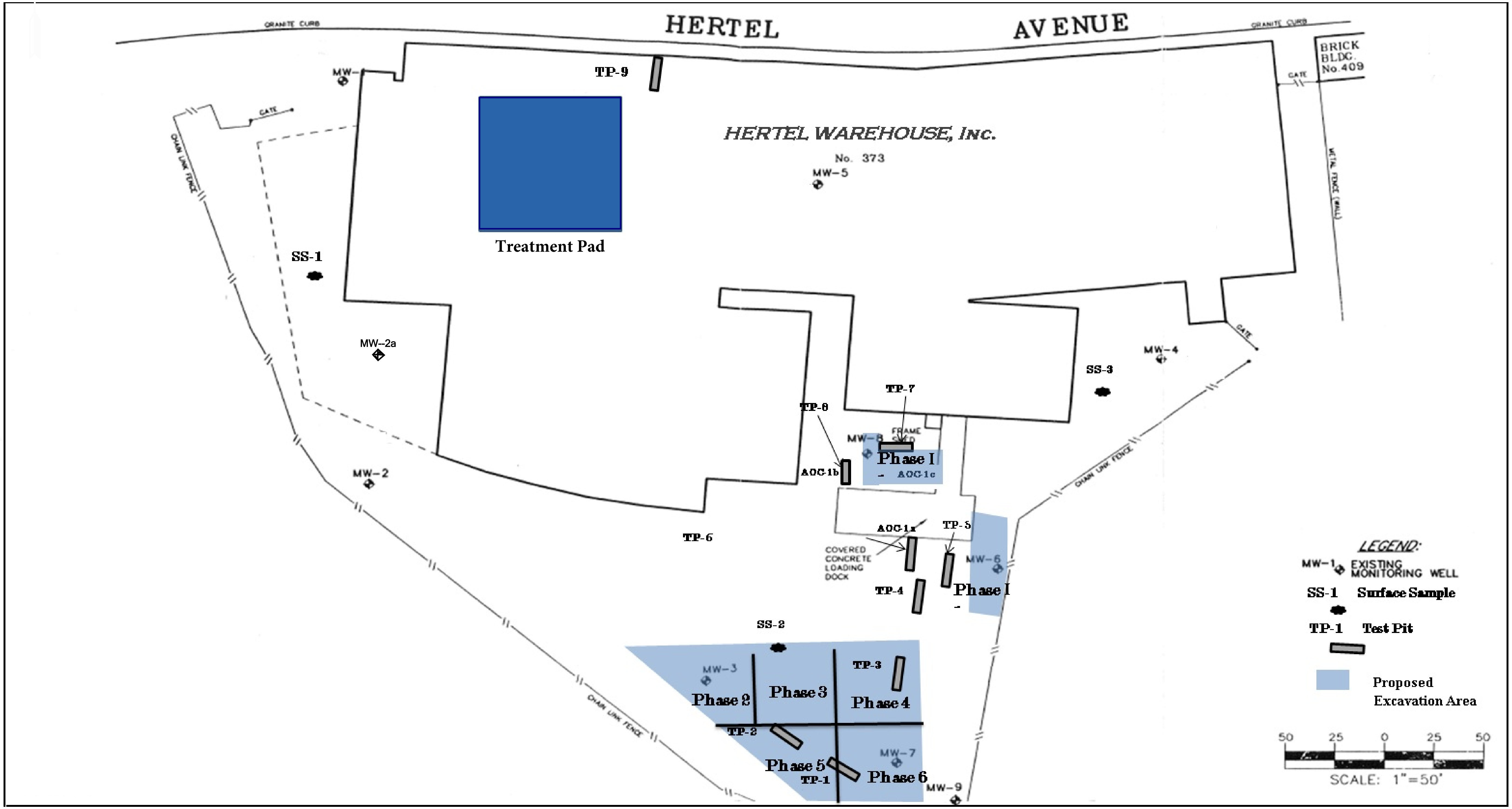
DATE	8/01/2014
SCALE	N/A
FIGURE NUMBER	8
PROJECT NUMBER	A12B-Hertel ENV
REVISION	Rev1 ash



ESCO RAP Areas of Concern

HERTEL WAREHOUSE, INC.
373 HERTEL AVENUE, BUFFALO, NY 14207

DATE	8/06/2014
SCALE	1"=50'
FIGURE NUMBER	9
PROJECT NUMBER	A12B-Hertel ENV
REVISION	Rev2 ash



EXCAVATION SEQUENCING AND TREATMENT PAD LOCATION

HERTEL WAREHOUSE, INC.
373 HERTEL AVENUE, BUFFALO, NY 14207

DATE
8/06/2014

SCALE
1"=50'

FIGURE NUMBER
10

PROJECT NUMBER
A12B-Hertel ENV

REVISION
Rev2ash

TABLES

Table 1
Soil Sample Results
Hertel Warehouse Site - 373 Hertel Avenue
Buffalo, New York 14207
Site No. C915210
AFI Project No. A12B-Hertel-ENV

PARAMETER	Track 2 Table 375-6.8(b)	Track 2 Table 375-6.8(b)	SS-1	SS-2	SS-3	MW-2 (a)	Duplicate	S&W Bedding	Duplicate	TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8
	Commercial SCO	Industrial SCO	29-May-13	29-May-13	29-May-13	29-May-13	29-May-13	5-Jun-13	5-Jun-13	4-Jun-13	4-Jun-13	4-Jun-13	4-Jun-13	4-Jun-13	4-Jun-13	4-Jun-13	4-Jun-13
Volatile Organic Compounds (VOCs) - mg/kg																	
1,1,1-Trichloroethane	500	1,000	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	240	480	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	500	1,000	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	500	1,000	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	30	60	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	280	560	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	250	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	500	1,000	NA	NA	NA	0.15	NA	0.02	0.082	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	44	89	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**	**	NA	NA	NA	0.0064	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	22	44	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	500	1,000	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	350	700	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	500	1,000	NA	NA	NA	ND	NA	ND	ND	ND	0.56	ND	ND	0.95	ND	ND	ND
cis-1,3-Dichloropropene	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	390	780	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	**	**	NA	NA	NA	0.0029	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	500	1,000	NA	NA	NA	0.036	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl t-butyl ether (MTBE)	500	1,000	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylacetate	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	0.35	ND	ND	ND	0.37	ND
Methylene chloride	500	1,000	NA	NA	NA	0.002	NA	0.002	0.0009	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	150	300	NA	NA	NA	ND	NA	ND	ND	8.1	140	4.6	1.7	1.5	0.12	12	24
Toluene	500	1,000	NA	NA	NA	0.0051	NA	ND	0.0015	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	500	1,000	NA	NA	NA	0.0029	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	500	1,000	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	200	400	NA	NA	NA	ND	NA	ND	ND	ND	5.4	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane	**	**	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	13	27	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dioxane	130	250	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles Organic Compounds - mg/kg																	
Acenaphthene	500	1,000	ND	ND	0.26	ND	0.13	NA	NA	ND	ND	ND	ND	ND	ND	5.70	ND
Acenapthylene	500	1,000	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	500	1,000	0.31	ND	0.4	ND	0.24	NA	NA	ND	ND	ND	ND	0.41	ND	15.0	0.57
Benzo(a)pyrene	1	1.1	2.2	0.44	3.3	0.43	1.2	NA	NA	ND	ND	1.20	0.84	5.30	4.40	23.0	12.00
Benz(a)anthracene	5.6	11	1.6	0.36	2.7	0.35	1.1	NA	NA	ND	ND	0.56	0.53	4.00	3.90	24.0	11.00
Benz(b)fluoranthene	5.6	11	3.3	0.69	5.1	0.71	2.0	NA	NA	ND	ND	1.90	1.30	8.40	11.00	37.0	23.0
Benzo(g.h.i.)perylene	500	1000	1.4	0.43	2.00	0.22	0.43	NA	NA	ND	ND	1.40	0.78	4.60	3.90	14.0	9.30
Benzo(k)fluoranthene	56	110	0.94	0.25	1.40	0.28	0.66	NA	NA	ND	ND	0.57	0.44	2.20	2.20	8.90	3.20
Chrysene	56	110	2.1	0.43	3.0	0.43	1.4	NA	NA	ND	ND	0.99	0.78	4.80	7.20	29.0	15.00
Dibenz(a,h)anthracene	0.56	1.1	0.41	0.3	1.00	ND	0.19	NA	NA	ND	ND	0.31	ND	1.30	1.60	ND	3.1
Fluoranthene	500	1,000	3	0.55	3.7	0.71	2.1	NA	NA	ND	0.29	0.63	0.89	5.00	4.10	41.0	11.0
Fluorene	500	1000	ND	ND	0.20	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	11.0	ND
Indeno(1,2,3-cd)pyrene	5.6	11	1.3	0.42	2.00	0.23	0.5	NA	NA	ND	ND	1.10	0.65	4.10	3.40	13.0	8.70
m-Cresol	500	1,000	0.21	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	500	1,000	ND	ND	0.23	ND	0.13	NA	NA	ND	0.35	0.28	ND	ND	ND	15.0	0.29
o-Cresol	500	1,000	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
p-Cresol	500	1,000	0.21	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	6.7	55	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	500	1,000	1.2	0.25	2.4	0.5	1.3	NA	NA	ND	0.46	0.48	0.44	1.80	1.00	45.0	2.40
Phenol	500	1,000	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	500	1,000	2.7	0.49	3.2	0.57	1.7	NA	NA	ND	0.29	0.67	0.83	4.90	3.90	33.0	9.70
Total Metals - mg/kg																	
Arsenic	16	16	4.20	1.50	7.30	4.00	4.40	NA	NA	2.7	3.3	2.5	6.3	6.6	3.3	6.2	9.4
Barium	400	10,000	215	390	40.7	95.9	244	NA	NA	95.7	454	24.3	37.6	52.5	46.8	96.1	49.2
Beryllium	590	2,700	0.31	2.1	<0.31	0.57	0.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	60	3.33	1.37	1.32	0.92	3.01	NA	NA	2.19	1.54	0.74	0.98	1.59	0.89	0.79	0.97
Chromium	1,500	6,800	34	241	38.7	18.7	101	NA	NA	20.3	106	15.1	12.7	20.1	11.3	12.5	27.9
Copper	270	10,000	62.5	162	26.5	26.6	390	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Cyanide	27	10,000	NA	NA	NA	<0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1,000	3,900	69.1	60.3	43.9	15.7	118	NA	NA	159	110	31.2	15.6	37.1	34.5	76.3	27.8
Manganese	10,000	10,000	660	32,000	1,380	300	9110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2.8	5.7	0.07	<0.08	<0.08	<0.10	0.08	NA	NA	0.32	0.14	<0.07	<0.10	<0.09	<0.11	0.09	<0.08
Selenium	1,500	6,800	<1.6	<1.4	<1.6	<1.5	<1.3	NA	NA	<1.5	<5.0	<1.4	<1.6	<1.5	<2.0	<1.6	<1.4
Nickel	310	10,000	18.1	13.6	10.9	21.5	19.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	1,500	6,800	<0.41	<0.36	<0.39	<0.39	<0.32	NA	NA	<0.36	<0.60	<0.36	<0.41	<0.36	<0.50	<0.41	<0.35
Zinc	10,000	10,000	696	122	97.6	88.7	308	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs - mg/kg																	
PCB-1016	1	25	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1221	1	25	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1232	1	25	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1242	1	25	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1248	1	25	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1254	1	25	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1260	1	25	ND	0.1	ND	NA	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1262	1	25	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	1	25	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

key	
🟥	**= Exceeds Commercial Levels**
🟪	**= Exceeds Industrial Levels**

Notes:
Values per NYSDEC Part 375 Soil Cleanup Objectives (December 2006)

Definitions:
ND=Parameter not detected above laboratory detection limit.
NA=Sample not analyzed for parameter.
"--"=No SCO available.

TABLE 2
Groundwater Elevation Summary
Hertel Warehouse Site No. C915210
373 Hertel Avenue, Buffalo NY 14207
8/22/13rev6

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
MW-1	08/22/2013	92.45	3.28	89.17	ND	0.00	89.17
MW-2	08/22/2013	94.54	7.18	87.36	ND	0.00	87.36
MW-3	08/22/2013	93.05	6.24	86.81	ND	0.00	86.81
MW-4	08/22/2013	97.76	10.72	87.04	ND	0.00	87.04
MW-5	08/22/2013	95.20	3.62	91.58	ND	0.00	91.58
MW-6	08/22/2013	94.74	7.78	86.96	ND	0.00	86.96
MW-7	08/22/2013	93.36	6.56	86.80	ND	0.00	86.8
MW-8	08/22/2013	98.08	11.20	86.88	ND	0.00	86.88
MW-9	08/22/2013	96.50	9.74	86.76	ND	0.00	86.76
MW-10	08/22/2013	NA	NA	NA	NA	NA	NA
MW-11	08/22/2013	NA	10.74	NA	ND	0.00	NA
MW-12	08/22/2013	92.18	4.74	87.44	ND	0.00	87.44

Notes:

Elevations referenced to on-site benchmark assigned arbitrary elevation of 100

NA = Not applicable/available
ND = Not detected
NM = Not measured
NS = Not Sampled

Table 3
Groundwater Sample Results
Hertel Warehouse Site. 915210
373 Hertel Avenue, Buffalo, New York 14207

AFI Project No. A12B-Hertel-ENV

Contaminant	TOGS 1.1.1 Maximum Allowable Concentration	MW-1	MW-2a	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-11 Off-Site Well South East	MW-12 Off-Site Well East
		31-Jul-13	31-Jul-13	31-Jul-13	31-Jul-13	31-Jul-13	31-Jul-13	31-Jul-13	31-Jul-13	31-Jul-13	31-Jul-13	31-Jul-13
Volatile Organic Compounds (VOCs)-ug/L												
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	0.25	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	0.30	46	ND	ND	40	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50	ND	ND	ND	ND	ND	ND	21	ND	ND	ND	ND
4-Methyl-2-pentanone	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	2.6	ND	3.9	5.5	6.9	53	ND	1.7	ND	9.2
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	na	ND	ND	ND	ND	0.53	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	0.35	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	0.56	ND	1,100	13	ND	63	35,000	17	67	13,000	ND
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	50	ND	ND	ND	ND	0.97	ND	ND	ND	ND	ND	ND
Methyl t-butyl ether (MTBE)	10	0.58	ND	ND	0.41	ND	0.85	ND	ND	1.6	ND	ND
Methylacetate	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	9.7	4,900	110	ND	600	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	0.36	ND	ND	0.4	47	ND	ND	50	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	0.32	ND	ND	0.27	ND	4.3	1,600	5.8	0.33	980	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	18	4.1	ND	16	4,100	ND	160	340	ND
1,4-dioxane	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	na	**1.46**	**2.60**	**1,118**	**21.93**	**7.00**	**101**	**45,767**	**133**	**231**	**15,010**	**9.20**
Semi-Volatile Organic Compounds SVOCs-ug/L												
Acenaphthylene	na	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Atrazine	7.5	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Benz(a)anthracene	0.002	NA	NA	0.09	0.16	NA	4.2	0.5	NA	0.17	NA	NA
Benzo(a)pyrene	na	NA	NA	0.15	0.19	NA	4.2	0.42	NA	0.2	NA	NA
Benzo(b)fluoranthene	0.002	NA	NA	0.24	0.39	NA	6.5	0.6	NA	0.28	NA	NA
Benzo(k)fluoranthene	0.002	NA	NA	0.1	0.12	NA	2.1	0.19	NA	0.07	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	3	3.4	NA	ND	ND	NA	ND	NA	NA
Chrysene	0.002	NA	NA	0.12	0.22	NA	4.5	0.52	NA	0.19	NA	NA
Dibenz(a,h)anthracene	na	NA	NA	0.03	0.06	NA	0.93	0.09	NA	0.04	NA	NA
Hexachlorobenzene	0.04	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Hexachlorobutadiene	0.5	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Hexachloroethane	5	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	NA	NA	0.12	0.17	NA	2.7	0.28	NA	0.13	NA	NA
N-Nitrosodimethylamine	na	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Pentachlorophenol	1	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Phenanthrene	50	NA	NA	ND	ND	NA	4.0	0.84	NA	0.27	NA	NA
Acenaphthene	20	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Acetophenone	na	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Anthracene	50	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Benzo(ghi)perylene	na	NA	NA	ND	ND	NA	3.3	ND	NA	ND	NA	NA
Fluoranthene	50	NA	NA	ND	ND	NA	7.4	1.7	NA	ND	NA	NA
Fluorene	50	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Phenol	1	NA	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA
Pyrene	50	NA	NA	ND	ND	NA	6.2	ND	NA	ND	NA	NA
Total SVOCs	na	**NA**	**NA**	**3.85**	**4.71**	**NA**	**46.03**	**5.14**	**NA**	**1.22**	**NA**	**NA**
Chemistry-mg/kg												
Iron (Dissolved)	na	NA	NA	0.18	NA	NA	0.03	0.06	0.02	NA	0.07	0.04
Iron	0.3	NA	NA	31.5	NA	NA	32.4	16	20.1	NA	68.7	7.9
Manganese (Dissolved)	0.3	NA	NA	0.327	NA	NA	0.697	0.528	1.32	NA	2.76	0.371
Manganese	0.3	NA	NA	0.476	NA	NA	1.07	0.596	1.64	NA	3.63	0.443
Hydrogen Sulfide	0.05	NA	NA	<0.05	NA	NA	<0.05	<0.05	<0.05	NA	<0.05	<0.05
Nitrite	1	NA	NA	<0.01	NA	NA	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Sulfate	250	NA	NA	84.1	NA	NA	10.9	49.2	54.2	NA	19.3	<3.0
Chemistry-ug/L												
Ethane	na	NA	NA	ND	NA	NA	8.56	19.8	ND	NA	12	71
Ethene	na	NA	NA	ND	NA	NA	16.0	72.5	ND	NA	6.93	59.4
Methane	na	NA	NA	3.73	NA	NA	ND	180	ND	NA	9.25	1,820

Definitions: 🟥 =Exceeds TOGS 1.1.1 Table 1 and Table 5

ND=Parameter not detected above laboratory detection limit.

NA=Sample not analyzed for parameter.

na - No objective available.

BRL - Below Reporting Limit

Table 4

Backfill Soil Sample Results

373 Hertel Avenue, Buffalo, New York
Site No. C950210
AFI Project No. A12B-Hertel-ENV

Parameter	CAS No.	Track 1 Table 375-6.8(a)	Track 2 Table 375-6.8(b)	Track 2 Table 375-6.8(b)	McEwan
		Unrestricted SCO	Commercial SCO	Industrial SCO	Site No . 90489
Volatile Organic Compounds (VOCs) - mg/kg					
1,1,1-Trichloroethane	71-55-6	0.68	500	1,000	ND<0.00393
1,1-Dichloroethane	75-34-3	0.27	240	480	ND<0.00393
1,1-Dichloroethene	75-35-4	0.33	500	1,000	ND<0.00393
1,2-Dichlorobenzene	95-50-1	1	500	1,000	ND<0.00983
1,2-Dichloroethane	107-06-2	0.2	30	60	ND<0.00393
cis-1,2-Dichloroethene	156-59-2	0.25	500	1,000	ND<0.00393
trans-1,2-Dichloroethene	156-60-5	0.19	500	1,000	ND<0.00393
1,3-Dichlorobenzene	541-73-1	2	280	560	ND<0.00983
1,4-Dichlorobenzene	106-46-7	2	130	250	ND<0.00393
Acetone	67-64-1	0.05	500	1,000	ND<0.0197
Benzene	71-43-2	0.06	44	89	ND<0.00393
Carbon tetrachloride	56-23-5	0.76	22	44	ND<0.00983
Chlorobenzene	108-90-7	1	500	1,000	ND<0.00393
Chloroform	67-66-3	0.37	350	700	ND<0.00393
Ethylbenzene	100-41-4	1	390	780	ND<0.00393
Methyl tert-butyl ether	1634-04-4	0.93	500	1,000	ND<0.00393
Methylene chloride	75-09-2	50	500	1,000	ND<0.00983
Tetrachloroethene	127-18-4	1	150	300	ND<0.00393
Toluene	108-88-3	0.7	500	1,000	ND<0.00393
Trichloroethene	79-01-6	0.47	200	400	ND<0.00393
Vinyl chloride	75-01-4	0.02	13	27	ND<0.00393
Xylene (mixed)	1030-20-7	0.26	500	1,000	ND<0.00393
Semi-Volatiles Organic Compounds - mg/kg					
Acenaphthene	83-32-9	20	500	1,000	ND<0.308
Acenapthylene	208-96-8	100	500	1,000	ND<0.308
Anthracene	120-12-7	100	500	1,000	ND<0.308
Benzo(a)pyrene	56-55-3	1	5.6	11	ND<0.308
Benz(a)anthracene	50-32-8	1	5.6	1.1	ND<0.308
Benz(b)fluoranthene	205-99-2	1	5.6	11	ND<0.308
Benzo(g.h.i.)perylene	191-24-2	100	500	1000	ND<0.308
Benzo(k)fluoranthene	207-08-9	0.8	56	110	ND<0.308
Chrysene	218-01-9	1	56	110	ND<0.308
Dibenz(a,h)anthracene	53-70-3	0.33	0.56	1	ND<0.308
Fluoranthene	206-44-0	100	500	1,000	ND<0.308
Fluorene	86-73-7	30	500	1000	ND<0.308
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	11	ND<0.308
Naphthalene	91-20-3	12	500	1,000	ND<0.308
Pentachlorophenol	87-86-5	0.8	6.7	55	ND<0.770
Phenanthrene	85-01-8	100	500	1,000	ND<0.308
Phenol	108-95-2	0.33	500	1,000	ND<0.308
Pyrene	129-00-0	100	500	1,000	ND<0.308
Total Metals - mg/kg					
Arsenic	7440-38-2	13	16	16	9.15
Barium	7440-39-3	350	400	10,000	42.9
Beryllium	7440-41-7	7.2	590	2,700	0.396
Cadmium	7440-43-9	2.5	9.3	60	0.35
Chromium	16065-83-1	30	1,500	6,800	9.15
Copper	7440-50-8	50	270	10,000	29.4
Lead	7439-92-1	63	1,000	3,900	10
Manganese	7439-96-5	1,600	10,000	10,000	45.5
Mercury	--	0.18	2.8	5.7	0.0093
Selenium	7782-49-2	3.9	1,500	6,800	0.19
Nickel	7440-02-0	30	310	10,000	20.3
Silver	7440-22-4	2	1,500	6,800	<0.731
Zinc	7440-66-6	109	10,000	10,000	12.9
PCBs - mg/kg					
PCB-1016	1336-36-3	0.01	1	25	ND<0.0309
PCB-1221	1336-36-3	0.01	1	25	ND<0.0309
PCB-1232	1336-36-3	0.01	1	25	ND<0.0309
PCB-1242	1336-36-3	0.01	1	25	ND<0.0309
PCB-1248	1336-36-3	0.01	1	25	ND<0.0309
PCB-1254	1336-36-3	0.01	1	25	ND<0.0309
PCB-1260	1336-36-3	0.01	1	25	ND<0.0309
Pesticides - mg/kg					
alpha-BHC	319-84-6	0.02	6.8	0.04	ND<0.00308
beta-BHC	319-85-7	0.036	14	0.6	ND<0.00308
delta-BHC	319-86-8	0.04	500	1000	ND<0.00308
alpha-Chlordane	5103-71-9	0.094	24	47	ND<0.00308
4,4'-DDD	72-54-8	0.0033	92	180	ND<0.00308
4,4'-DDE	72-55-9	0.0033	62	120	ND<0.00308
4,4'-DDT	50-29-3	0.0033	47	94	ND<0.00308
Dieldrin	60-57-1	0.005	1.4	2.8	ND<0.00308
Endosulfan I	959-98-8	2.4	200	920	ND<0.00308
EndosulfanII	33213-65-9	2.4	200	920	ND<0.00308
Endosulfan Sulfate	1031-07-8	2.4	200	920	ND<0.00308
Endrin	72-20-8	0.014	89	410	ND<0.00308
Heptachlor	76-44-8	0.42	9.2	23	ND<0.00308

Notes:
Values per NYSDEC Part 375 Soil Cleanup Objectives (December 2006)

Definitions:
ND=Parameter not detected above laboratory detection limit.
NA=Sample not analyzed for parameter.
"--"=No SCO available.

🟩 Exceeds Unrestricted Levels
🟥 **Exceeds Commercial Levels**
🟪 **Exceeds Industrial levels**

TABLE 5
EXCAVATION CONFIRMATORY SAMPLING AND ANALYSIS PLAN
EX-SITU REMEDIAL ACTION PLAN
HERTEL WAREHOUSE
373 HERTEL AVENUE
BUFFALO, NEW YORK

Matrix	Investigation Location		Rationale	Estimated Number of Samples	TCL VOCs	TCL B/N SVOCs
Soil	AOC-1c	South Wall	Samples will not be collected from North and West wall as these areas were previously excavated	1	1	1
	AOC-1c	East Wall		1	1	1
	AOC-1c	Floor		1	1	1
	AOC-2	North Wall	Samples will not be collected from the West wall as this area was previously excavated	1	1	1
	AOC-2	East Wall		1	1	1
	AOC-2	South Wall		1	1	1
	AOC-3 Phase 2	North Wall	Samples will not be collected from the East and South walls as they are adjacent to planned excavations	2	2	2
	AOC-3 Phase 2	Southwest Wall		2	2	2
	AOC-3 Phase 3	North Wall	Samples will not be collected from the East, South and West walls as they are adjacent to planned excavations	1	1	1
	AOC-3 Phase 4	North Wall	Samples will not be collected from the South and West walls as they are adjacent to planned excavations	1	1	1
	AOC-3 Phase 4	East Wall		1	1	1
	AOC-3 Phase 5	Southwest Wall	Samples will not be collected from theNorth and East walls as they are adjacent to planned excavations	1	1	1
	AOC-3 Phase 5	South Wall		1	1	1
	AOC-3 Phase 6	East Wall	Samples will not be collected from theNorth and West walls as they are adjacent to planned excavations	1	1	1
	AOC-3 Phase 6	South Wall		1	1	1
QA/QC^5	Soil	MS	Quality Assurance and Control	6	6	6
		MSD		6	6	6
		Blind Dup		6	6	6
TOTAL SOIL SAMPLES:				35	35	35

Notes:

1. Analyses will be performed via USEPA SW-846 methodology with equivalent Category B deliverables package.
2. Blind duplicate and MS/MSD samples will be collected at a frequency of 1 per 20 samples per matrix (e.g., soil or groundwater) collected.

Acronyms:

VOCs = volatile organic compounds
SVOCs = semi-volatile organic compounds
TAL = Target Analyte List
BN = Base Neutrals
PCBs = Polychlorinated Biphenyls
RCRA = Resource Conservation and Recovery Act
TCL = Target Compound List
TBD = To Be Determined
SSV = Subslab Soil Vapor
HC = Hand Core
MW = Monitoring Well
TMW = Temporary Monitoring Well

TABLE 6
TREATMENT CONFIRMATORY SAMPLING AND ANALYSIS PLAN
EX-SITU REMEDIAL ACTION PLAN
HERTEL WAREHOUSE
373 HERTEL AVENUE
BUFFALO, NEW YORK

Matrix	**Investigation Location**		**Rationale**	**Estimated Number of Samples**	**TCL VOCs**	**TCL B/N SVOCs**[1]
Soil	Treatment Pad	Phase 1	Recommended Sampling per NYSDEC DER-10	6	6	2
	Treatment Pad	Phase 2	One Composite Sample per 1,000 tons	6	6	2
	Treatment Pad	Phase 3	One Composite Sample per 1,000 tons	6	6	2
	Treatment Pad	Phase 4	One Composite Sample per 1,000 tons	6	6	2
	Treatment Pad	Phase 5	One Composite Sample per 1,000 tons	6	6	2
	Treatment Pad	Phase 6	One Composite Sample per 1,000 tons	6	6	2
QA/QC[5]	Soil	MS	Quality Assurance and Control	6	6	6
		MSD		6	6	6
		Blind Dup		6	6	6
TOTAL SOIL SAMPLES:				54	54	30

Notes:

1. SVOC Samples will be a composite from the six descrete VOC soil samples

1. Analyses will be performed via USEPA SW-846 methodology with equivalent Category B deliverables package.

2. Blind duplicate and MS/MSD samples will be collected at a frequency of 1 per 20 samples per matrix (e.g., soil or groundwater) collected.

Acronyms:

VOCs = volatile organic compounds
SVOCs = semi-volatile organic compounds
TAL = Target Analyte List
BN = Base Neutrals
PCBs = Polychlorinated Biphenyls
RCRA = Resource Conservation and Recovery Act

TCL = Target Compound List
TBD = To Be Determined
SSV = Subslab Soil Vapor
HC = Hand Core
MW = Monitoring Well
TMW = Temporary Monitoring Well

TABLE 7
MANGANESE IMPACTED SOIL CONFIRMATORY SAMPLING AND ANALYSIS PLAN
EX-SITU REMEDIAL ACTION PLAN
HERTEL WAREHOUSE
373 HERTEL AVENUE
BUFFALO, NEW YORK

Matrix	**Sampling Location**		**Rationale**	**Estimated Number of Samples**	**Manganese**
Soil	SS-2	North Wall	One Composite Sample of the North and East Wall	1	1
	SS-2	East Wall			
	SS-2	South Wall	One Composite Sample of the South and West Wall	1	1
	SS-2	Waest Wall			
	SS-2	Floor	One Floor Sample	1	1
QA/QC[5]	Soil	MS	Quality Assurance and Control	1	1
		MSD		1	1
		Blind Dup		1	1
TOTAL SOIL SAMPLES:				6	6

Notes:

1. Analyses will be performed via USEPA SW-846 methodology with equivalent Category B deliverables package.

2. Blind duplicate and MS/MSD samples will be collected at a frequency of 1 per 20 samples per matrix (e.g., soil or groundwater) collected.

Acronyms:

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

TAL = Target Analyte List

BN = Base Neutrals

PCBs = Polychlorinated Biphenyls

RCRA = Resource Conservation and Recovery Act

TCL = Target Compound List

TBD = To Be Determined

SSV = Subslab Soil Vapor

HC = Hand Core

MW = Monitoring Well

TMW = Temporary Monitoring Well

APPENDIX A

Soil Boring and Monitoring Well Logs

U.S EPA Environmental Response Team Center
Response Engineering and Analytical Contract
68-C4-0024
W.O. # 03347-143-001-3399-01

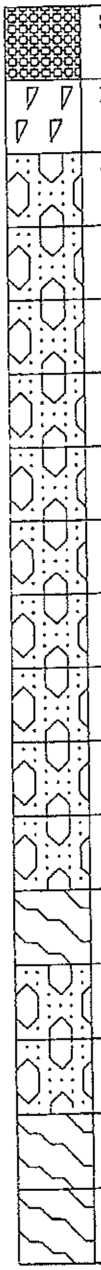
BOREHOLE LOG AND WELL CONSTRUCTION DIAGRAM

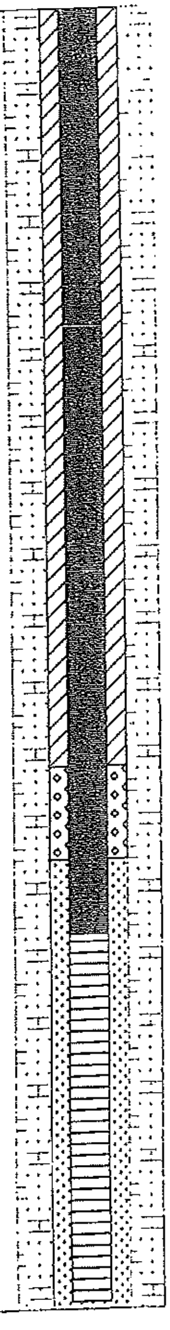
Page 1 of 1

Site Name: Morgan Materials Site
Site Location: Buffalo, New York
Boring ID: MW-1

Total Depth: 35.0 ft
Logger: W. Avery
Date Started: 11/3/98
Date Completed: 11/3/98

All depths are in feet (ft) below ground surface.
Well completed with flush-mount casing and cement pad.





Depth	Material	USCS Classification	Comments	Depth to Water	Well Construction Summary	Well Completion Diagram
0		SW	0-2 (core): Dark gray gravelly sand, rounded, loose, dry, non-cemented.			
		MH	2-4 (core): Red-brown clayey silt, minor fine-grained sub-rounded gravel, moderate sorting, dry, low plasticity, soft, moderately calcareous.		Grout from 0 to 20.5 ft around inner casing.	
-5		CL	4.5-6 (core): Same as above.			
		CL	7.4-8 (core): Red-brown silty clay, minor fine-grained sub-rounded gravel, moderate sorting, dry, low plasticity, soft, moderately calcareous.			
		CL	8-10 (core): Same as above.			
-10		CL	11.6-12 (core): Red-brown clay, minor angular gravel, moderate sorting, dry, firm, low plasticity, moderately calcareous.		Inner casing is 2-inch schedule 40 PVC.	
		CL	12-14 (core): Same as above with minor silt.			
-15		CL	14-16 (core): Red-brown clay with minor fine-grained sub-rounded gravel, moderate sorting, dry, firm, moderate plasticity, moderately calcareous.			
		CL	16-18 (core): Red-brown silty clay with minor fine-grained sub-rounded gravel, well sorted, dry, firm, low plasticity, moderately calcareous.			
		CL	18-20 (core): Same as above with moderate plasticity.			
-20		CL	20-22 (core): Red-brown silty clay with minor fine-grained sub-rounded gravel, well sorted, dry, firm, gray clay vertical tracers, moderate plasticity, moderately calcareous.		Bentonite seal from 20.5 to 23 ft.	
		CL	22.2-24 (core): Same as above.			
-25		CH	24-26 (core): Red-brown silty clay with minor sub-rounded to angular gravel, moderate sorting, high plasticity, dry, soft, higher silt content, coarse gravel at bottom of spoon.		Sand pack from 23 to 35 ft.	
		CL	26-28 (core): Red-brown silty clay with sandy gravel pockets. Well sorted, dry, sft, moderate plasticity, moderately calcareous.	▽		
		CL	28-29.5 (core): Red-brown silty clay with minor sub-rounded fine-grained gravel, well sorted, dry, moderate plasticity, firm. 29.5-30 (core): Gray-brown clay. Moist, well-sorted, highly plastic.			
-30		CH	30-32 (core): Same as above with gray clay tracers.		2-inch PVC, No. 10 slot screen from 25 to 35 ft.	
		CH	32-34 (core): Same as above.			
-35						

U.S EPA Environmental Response Team Center

Response Engineering and Analytical Contract

68-C4-0024

W.O. # 03347-143-001-3399-01

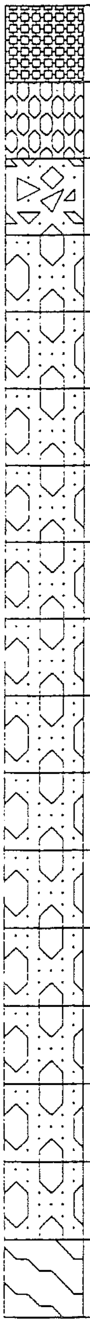
BOREHOLE LOG AND WELL CONSTRUCTION DIAGRAM

Page 1 of 2

Site Name: Morgan Materials Site
Site Location: Buffalo, New York
Boring ID: MW-2

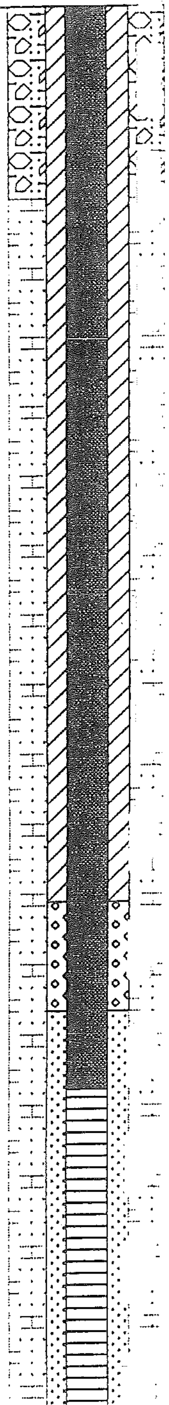
Total Depth: 38.0 ft
Logger: W. Avery
Date Started: 11/3/98
Date Completed: 11/3/98

All depths are in feet (ft) below ground surface.
Well completed with flush-mount casing and cement pad.



Depth	USCS Classification	Comments	Depth to Water	Well Construction Summary
0	SW	0-2 (core): Mottled gray, tan, brown sand, angular, loose, dry, non-cemented.		
	SP	2-4 (core): Dark brown gravelly sand, minor fine-grained sub-angular gravel, poorly sorted, dry, low plasticity.		Grout from 0 to 23.2 ft around inner casing.
-5	GP-GM	4-5 (core): Gray-black sub-angular gravel and sand, poorly sorted, dry, non-cemented.	▽	
	CL	7.5-8 (core): Red-brown silty clay, minor fine-grained sub-rounded gravel, well sorted, dry, low plasticity, soft, moderately calcareous.		
	CL	8-10 (core): Red-brown silty clay, minor rounded gravel, well sorted, dry, low plasticity, moderately calcareous.		
-10	CL	10-12 (core): Red-brown clay, minor angular gravel, well sorted, dry, firm, moderate plasticity, moderately calcareous, dolomite present.		Inner casing is 2-inch schedule 40 PVC.
	CL	12-14 (core): Red-brown silty clay, minor fine-grained sub-angular gravel, well sorted, dry, very stiff. moderately calcareous.		
-15	CL	14-16 (core): Same as above.		
	CL	16-18 (core): Red-brown silty clay with minor fine-grained sub-angular gravel, well sorted, dry, very stiff, moderate plasticity, moderately calcareous.		
	CL	18-20 (core): Same as above with larger gravel fragments.		
-20	CL	20-22 (core): Red-brown silty clay with minor fine-grained sub-rounded gravel, well sorted, dry, very stiff, gray clay sub-vertical striations, moderate plasticity, moderately calcareous.		
	CL	22-24 (core): Same as above.		
-25	CL	24-26 (core): Red-brown silty clay with minor sub-rounded gravel, well sorted, moderate plasticity, dry, very stiff, moderately calcareous.		Bentonite seal from 23.2 to 26 ft.
	CL	26-28 (core): Same as above with limestone fragments.		Sand pack from 26 to 38 ft.
	CL	28-30 (core): Same as above.		
-30	CL	30-32 (core): Same as above.		2-inch PVC, No. 10 slot screen from 28 to 38 ft.
	CH	32-34 (core): Red-grey clay, well sorted, moist, soft, high plasticity, slightly calcareous.		
-35				

Well Completion Diagram



U.S EPA Environmental Response Team Center

Response Engineering and Analytical Contract

68-C4-0024

W.O. # 03347-143-001-3399-01

BOREHOLE LOG AND WELL CONSTRUCTION DIAGRAM

Page 1 of 1

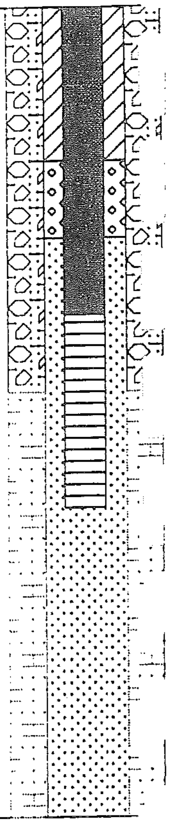
Site Name: Morgan Materials Site
Site Location: Buffalo, New York
Boring ID: MW-3

Total Depth: 20.0 ft
Logger: W. Avery
Date Started: 11/4/98
Date Completed: 11/4/98

All depths are in feet (ft) below ground surface.
Well completed with above ground, locking protective casing.

Depth	Material	USCS Classification	Comments	Depth to Water	Well Construction Summary
0					Grout from 0 to 4 ft around inner casing. Inner casing is 2-inch schedule 40 PVC.
-5		SP	4-6 (core): Black-gray sand, minor fine-grained sub-angular gravel, poorly sorted, moist, non-cemented.		Bentonite seal from 4 to 6 ft.
				▽	Sand pack from 6 to 21 ft.
		SP			
-10		CL	10-11 (core): Red-brown clay, minor sub-angular gravel, moderate sorting, dry, firm, low plasticity, moderately calcareous.		2-inch PVC. No. 10 slot screen from 8 to 13 ft.
-15		CL	14-16 (core): Same as above.		
-20		CL	19-21 (core): Red-brown clay, minor sub-angular gravel, well sorted, dry, firm, non-cemented, moderate plasticity, moderately calcareous.		

Well Completion Diagram



U.S EPA Environmental Response Team Center

Response Engineering and Analytical Contract

68-C4-0024

W.O. # 03347-143-001-3399-01

BOREHOLE LOG AND WELL CONSTRUCTION DIAGRAM

Page 1 of 1

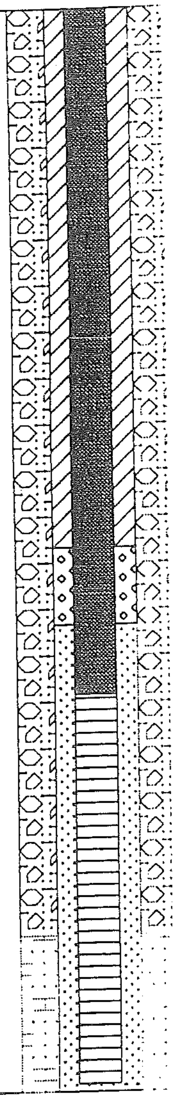
Site Name: Morgan Materials Site
Site Location: Buffalo, New York
Boring ID: MW-4

Total Depth: 28.0 ft
Logger: W. Avery
Date Started: 11/4/98
Date Completed: 11/4/98

All depths are in feet (ft) below ground surface.
Well completed with above ground, locking protective casing.

Depth	Material	USCS Classification	Comments	Depth to Water	Well Construction Summary
0		SP	0-2 (core): Dark brown-red-tan medium-fine grained sand, minor fine-grained angular gravel, moderately sorted, dry, non-cemented.		
		SP	2-4 (core): Dark brown-tan angular sand, minor medium-fine grained sub-angular gravel, poorly sorted, dry, non-cemented.		Grout from 0 to 14 ft around inner casing.
-5		SP	4-6 (core): Red-brown-gray medium sand with medium-fine grained sub-angular gravel, moderately sorted, dry, non-cemented.		
		SP	6-8 (core): Black-gray-tan fine-grained sub-angular sand, medium-fine grained angular gravel, moderately sorted, dry, non-cemented.		
		SP	8-10 (core): Red-black coarse angular fractured gravel, medium-fine grained sub-angular sand, poorly sorted, dry, red mudstone rock fragments in sand.		
-10		SP	10-12 (core): Red-black coarse angular sand, medium-fine grained angular fractured gravel, poorly sorted, moist with last foot wet.		Inner casing is 2-inch schedule 40 PVC.
		GP	12-14 (core): Red-black medium-fine grained angular gravel, minor fine sub-angular sand, poorly sorted, wet-saturated, non-cemented.	▽	
-15		GP	14-16 (core): Dark gray-black medium-fine grained angular fractured gravel, minor coarse grained angular sand, poorly sorted, wet-saturated.		Bentonite seal from 14 to 16 ft.
		GP	16-18 (core): Same as above.		
		SP	18-20 (core): Dark gray medium-fine grained angular sand, fine grained angular fractured gravel, poorly sorted, saturated.		
-20		GP	20-22 (core): Dark gray-tan fine grained sub-angular gravel, medium grained angular sand, poorly sorted, saturated.		Sand pack from 16 to 28 ft.
		SP-SM	22-24 (core): Dark gray sandy gravel with tan gravel layer at 23.6-23.8, saturated, non-cemented.		
-25		CL	24-26 (core): Gray-Red-brown silty clay possibly stained by water, moderate plasticity, moist. moderately calcareous.		2-inch PVC, No. 10 slot screen from 18 to 28 ft.
		CL	26-28 (core): Red-brown silty clay, vertical gray striations, moderate plasticity, dry, moderately calcareous.		

Well Completion Diagram



U.S EPA Environmental Response Team Center

Response Engineering and Analytical Contract

68-C4-0024

W.O. # 03347-143-001-3399-01

BOREHOLE LOG AND WELL CONSTRUCTION DIAGRAM

Page 1 of 2

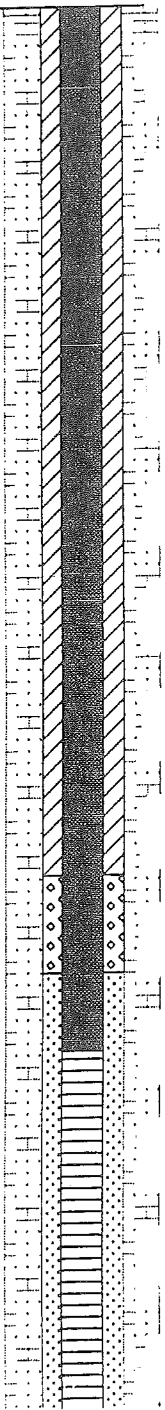
Site Name: Morgan Materials Site
Site Location: Buffalo, New York
Boring ID: MW-5

Total Depth: 37.0 ft
Logger: W. Avery
Date Started: 11/5/98
Date Completed: 11/5/98

All depths are in feet (ft) below ground surface.
Well completed with flush-mount casing and cement pad.

Depth	Material	USCS Classification	Comments	Depth to Water	Well Construction Summary
0		CL	0-2 (core): Top 1 inch is black to brown, dry, gravel fill. Rest of core is red-brown silty caly, low plasticity.		
		CL	2-4 (core): Red-brown silty clay.		Grout from 0 to 22.5 ft around inner casing.
-5		CL	4-6 (core): Red-brown silty clay, minor fine-grained gravel, well sorted, dry, low plasticity, moderately calcareous.		
-10		CL	9-11 (core): Red-brown silty clay, minor fine-grained gravel, well sorted, dry, low plasticity, firm, non-cemented.		Inner casing is 2-inch schedule 40 PVC.
-15		CL	14-16 (core): Same as above.		
-20		CL	19-21 (core): Same as above.		
					Bentonite seal from 22.5 to 25 ft.
-25		CL	24-26 (core): Same as above becoming softer downward.		Sand pack from 25 to 37 ft.
					2-inch PVC, No. 10 slot screen from 27 to 37 ft.
-30		CL	29-31 (core): Red-brown silty clay, minor fine-grained gravel, well sorted, dry, soft, moderate plasticity.		
		CH	32-34 (core): Gray-brown clay, high plasticity, soft, moist.	▼	
-35					

Well Completion Diagram



NATURE'S WAY
ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC

3553 Crittenden Road
Alden, NY 14004
(716) 937- 6527
www.natureswayenvironmental.com

Hole Number: MW 2A

DATE: 5/31/13

ELEVATION:

PROJECT: Subsurface Investigation and Monitoring Well Installation
Hertel Avenue, Buffalo, NY

PREPARED FOR: AFI Environmental

BORING LOCATION: Project # A12B

	SN	0/ 6	6/ 12	12/ 18	18/ 24	N	LITH	DESCRIPTION AND CLASSIFICATION	REC	COMMENTS
0	1	x					■	Asphalt Pavement 0.5	1.2'	Drilled without sampling through Asphalt pavement to 0.5 foot over clayey soil fill to 4.0 feet over clayey lake sediment to end of boring
			3			6	▨	Moist, brown (CLAYEY-SILT) fill with some clay, stiff with occasional pockets of dark gray (SANDY-SILT) fill		
				3			▨			
					5		▨			
	2	5					▨		0.8'	
			6			11	▨			
				5			▨			
					7		▨	4.0		
	3	2					▤	Moist, faintly mottled, brown (SILTY-CLAY) stiff to hard, thinly laminated with very thin coarse silt lenses and occasional nearly vertical gray desiccation cracks	1.3'	
5			3			10	▤			
				7			▤			
					11		▤			
	4	8					▤		2.0'	
			19			39	▤			
				20			▤			
					26		▤			
	5	5					▤		1.7'	
			6			18	▤			
				12			▤			
					21		▤	10.0		
10								Boring Completed at 10.0' BGS		No Water at Completion
15										
20										

LOGGED BY: Dale M. Gramza / Senior Geologist

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Alden, NY 14004
(716) 937- 6527
www.natureswayenvironmental.com

HOLE NUMBER: MW 2B

DATE: 5/29/13

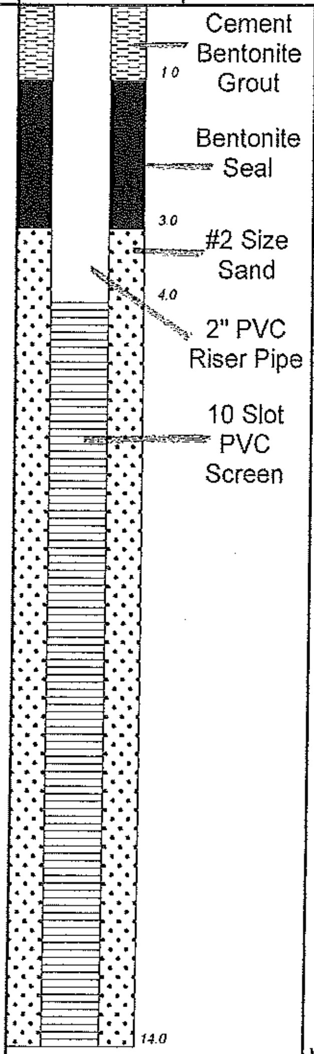
ELEVATION:

PROJECT: Subsurface Investigation and Monitoring Well Installation
Hertel Avenue, Buffalo, NY

PREPARED FOR: AFI Environmental

BORING LOCATION: Project # A12B

	SN	0/ 6	6/ 12	12/ 18	18/ 24	N	OVM	LITH	DESCRIPTION AND CLASSIFICATION	REC.	MONITORING WELL	REMARKS	COMMENTS
0													
5													
.0													
									14.0 Boring Completed at 14.0'BGS				Well Completed at 14.0' BGS
5													
0													



LOGGED BY: Dale M. Gramza / Senior Geologist

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3553 Crittenden Road
Alden, NY 14004
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HOLE NUMBER: MW 8

DATE: 5/30/13

ELEVATION:

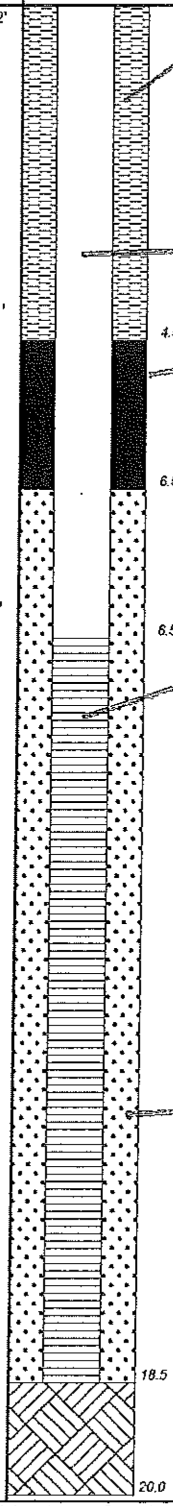
PROJECT: Subsurface Investigation and Monitoring Well Installation
Hertel Avenue, Buffalo, NY

PREPARED FOR: AFI Environmental

BORING LOCATION: Project # A12B

SN	0/ 6	6/ 12	12/ 18	18/ 24	N	OVM	DESCRIPTION AND CLASSIFICATION	REC.	REMARKS	COMMENTS
1	4	5	5	4	10	0	Moist, dark gray to black (SILTY-SAND) fill with very fine size sand, little silt, loose 3.0	1.2'	Cement Bentonite Grout	Sandy fill to 3.0 feet over sandy fill with little gravel to 8.0 feet over sand and gravel fill to 14.5 feet over clayey lake sediment to end of boring
2	6	2	4	3	6	0	Moist, gray gravelly (SILTY-SAND) fill with 15 to 25% gravel, very fine to fine size sand, loose 8.0	1.1'	2" PVC Riser Pipe Bentonite Seal	
3	2	1	2	1	3	0	Wet, dark gray very gravelly (SILTY-SAND) fill with 40 to 50% gravel, very fine to coarse size sand, trace silt, very loose	1.1'	2" Slotted PVC Screen	Soil Becoming Wet below 8.0' BGS
4	1	3	7	11	10	0	14.5	1.4'		
							Moist, faintly mottled, brown (CLAYEY-SILT) with some clay, stiff, blocky soil structure 17.5		#2 Size Sand	
5	8	15	23	32	38	0	Extremely moist, brown (SILTY-CLAY) hard, thinly laminated with very thin coarse silt lenses and occasional nearly vertical gray desiccation cracks Boring Completed at 20.0' BGS 20.0	1.4'		Well Completed at 18.5' BGS No Water at Completion

MONITORING WELL



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Alden, NY 14004
(716) 937- 6527
www.natureswayenvironmental.com

HOLE NUMBER: MW 9

DATE: 5/29/13

ELEVATION:

PROJECT: Subsurface Investigation and Monitoring Well Installation
Hertel Avenue, Buffalo, NY

PREPARED FOR: AFI Environmental

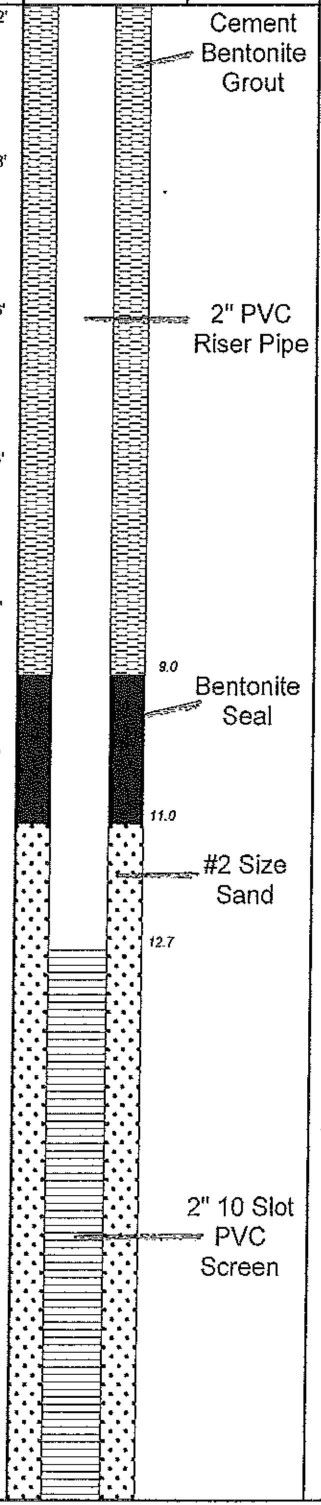
BORING LOCATION: Project # A12B

SN	0/6	6/12	12/18	18/24	N	OVM	DESCRIPTION AND CLASSIFICATION	REC.
1	2	2	4	4	6	0	Moist, dark gray, very gravelly (SANDY- SILT) fill with 40 to 50% gravel, little very fine size sand, loose (2.0)	1.2'
2	7	15	18	21	33	0	Moist, brown (CLAYEY-SILT) fill with 5 to 15% gravel, some clay, hard (4.0)	0.8'
3	3	1	1	1	2	0	Moist, dark gray, gravelly (SILTY-SAND) fill with 20 to 40% gravel and wood pieces, very fine to fine size sand (6.0)	0.6'
4	4	4	4	4	8	0	Wet, dark gray, very gravelly (SILTY-SAND) fill with 40 to 50% gravel, very fine to coarse size sand, trace silt, compact to loose	0.6'
5	5	10	5	3	15			0.0'
6	2	1	2	1	3	0		0.8'
7	3	3	3	2	6	0		0.8'
8	2	4	3	4	7	0		0.8'
9	3	3	4	3	7	0		0.8'
10	2	2	3	6	5	0	(20.0)	0.8'

Depth: 0, 5, 10, 5, 0

LITH

MONITORING WELL / REMARKS



COMMENTS

Coarse silt and gravel fill to 2.0 feet over clayey soil fill to 4.0 feet over sandy fill with some gravel to 6.0 feet over sand and gravel fill to 20.0 feet over silty lake sediment to 20.5 feet over clayey lake sediment to end of boring

▼ Water Level at 15.1' BGS at Completion

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NATURE'S WAY
ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC

3553 Crittenden Road
Alden, NY 14004
(716) 937- 6527
www.natureswayenvironmental.com

HOLE NUMBER: MW 9

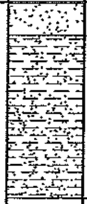
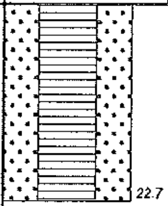
DATE: 5/29/13

ELEVATION:

PROJECT: Subsurface Investigation and Monitoring Well Installation
Hertel Avenue, Buffalo, NY

PREPARED FOR: AFI Environmental

BORING LOCATION: Project # A12B

SN	0/ 6	6/ 12	12/ 18	18/ 24	N	OVM	LITH	DESCRIPTION AND CLASSIFICATION	REC.	MONITORING WELL	REMARKS	COMMENTS
11	WR					0		Wet, brown, (SILT) with trace very fine size sand, very loose 20.5 Wet, brown (SILTY-CLAY) very soft, thinly laminated with very thin coarse silt lenses 22.7	1.7'	 22.7		WR - Weight of Rods
		1										
			2		3							
				3								
								Boring Completed at 22.7' BGS				Well Completed at 22.7' BGS

LOGGED BY: Dale M. Gramza / Senior Geologist PAGE 2 of 2

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Alden, NY 14004
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HOLE NUMBER: MW 11

DATE: 5/29/13

ELEVATION:

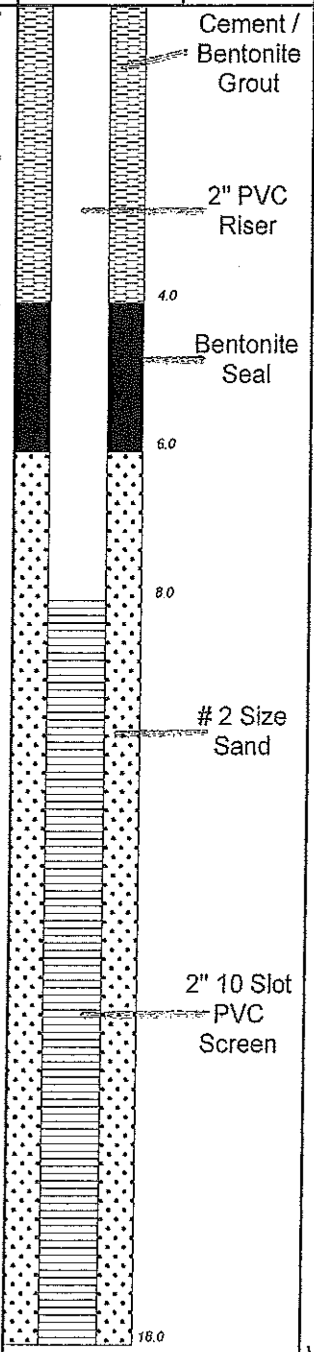
PROJECT: Subsurface Investigation and Monitoring Well Installation
Hertel Avenue, Buffalo, NY

PREPARED FOR: AFI Environmental

BORING LOCATION: Project # A12B

SN	0/6	6/12	12/18	18/24	N	OVM	DESCRIPTION AND CLASSIFICATION	REC.
1	3	27	50/3"		>77	0	Extremely moist, dark gray and dark brown (SILTY-SAND) fill with 5 to 15% gravel, bricks, and plastic, very fine to fine size sand, little silt, very dense in place 2.0	0.6'
2	3	4	5	3	9	0.2	Extremely moist becoming wet below 8.0', dark gray and dark brown (SANDY-SILT) fill with 5 to 10% gravel, loose to very loose, with occasional (CLAYEY-SILT) fill layers	0.6'
3	3	1	1	6	2	0		1.2'
4	6	3	3	3	6	0		1.4'
5	2	1	1	2	2	0	9.0 EXtremely moist, brown (CLAYEY-SILT) fill with some clay, very soft 10.0	1.3'
6	3	10	18	9	28	0	Wet, dark gray (SILTY-SAND) fill with 3 to 5% gravel, very fine to fine size sand, compact	0.7'
7	3	2	5	8	7	0.2	13.0 Moist, faintly mottled, brown (CLAYEY-SILT) fill with some clay, firm with occasional wet (SILTY-SAND) fill layers	1.0'
8	2	2	7	13	9	0	15.0 Moist, brown (CLAYEY-SILT) with some clay, stiff to hard, thinly laminated with very thin coarse silt lenses and occasional nearly vertical gray desiccation cracks	1.8'
9	7	13	21	32	34	0	18.0 Boring Completed at 18.0' BGS	2.0'

MONITORING WELL / REMARKS



COMMENTS

Sandy fill with trace gravel, bricks, and plastic to 2.0 feet over coarse silty fill with trace gravel to 9.0 feet over clayey soil fill to 10.0 feet over sandy fill to 13.0 feet over clayey soil fill with layers of sandy fill to 15.0 feet over clayey lake sediment to end of boring

Well Completed at 18.0' BGS

No Water at Completion

LOGGED BY: Dale M. Gramza / Senior Geologist

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HOLE NUMBER: MW 12

DATE: 5/29/13

ELEVATION:

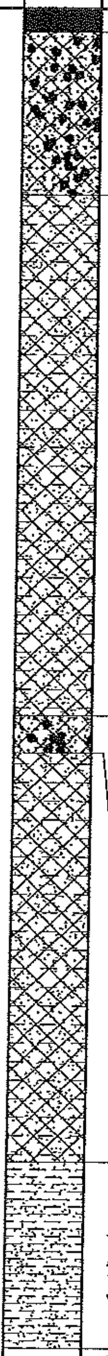
PROJECT: Subsurface Investigation and Monitoring Well Installation
Hertel Avenue, Buffalo, NY

PREPARED FOR: AFI Environmental

BORING LOCATION: Project # A12B

SN	0/ 6	6/ 12	12/ 18	18/ 24	N	OVM	REC.
1	25	50/3"			>50	0	0.8'
2	18	13	20	19	33	0	1.9'
3	4	4	5	6	9	0	0.4'
4	3	2	4	7	6	0	1.0'
5	3	4	7	9	11	0	1.3'
6	3	4	5	4	9	0	1.1'
7	5	5	5	5	10	0	1.1'
8	2	1	2	4	3	0	1.6'
9	17	12	20	25	32	0	2.0'

LITH



DESCRIPTION AND CLASSIFICATION

Asphalt Pavement 0.3

Moist, dark gray, gravelly (SANDY-SILT) fill with 20 to 40% gravel, concrete, and red bricks, very dense in place 2.5

Moist to extremely moist, brown (CLAYEY-SILT) fill with some clay, hard to stiff, with occasional dark gray (SANDY- SILT) fill layers 9.5

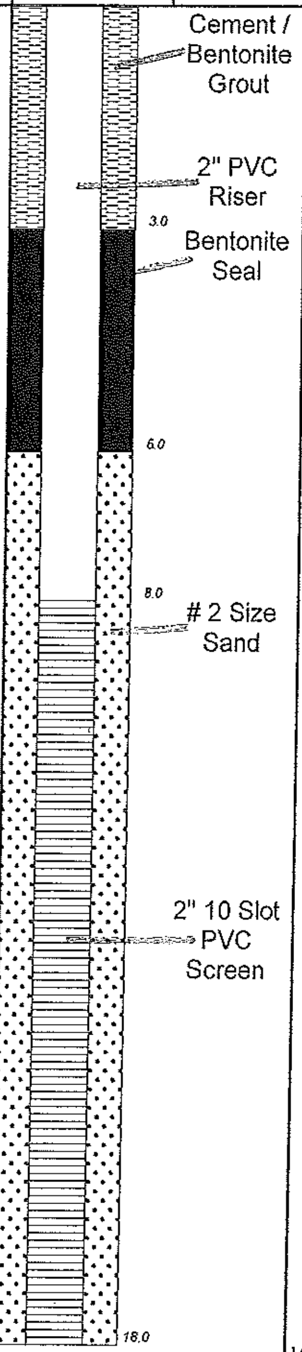
Wet, dark gray to black, very gravelly (SILTY-SAND) fill with 40 to 50% gravel, very fine to fine size sand, little silt, compact in place 10.0

Extremely moist, brown (CLAYEY-SILT) fill with some clay, stiff with wet gravelly (SILTY-SAND) layers 15.5

Extremely moist, distinctly mottled, brown (SILTY-CLAY) soft to hard, thinly laminated with very thin coarse silt lenses and nearly vertical gray desiccation cracks 18.0

Boring Completed at 18.0' BGS

MONITORING WELL / REMARKS



COMMENTS

Asphalt pavement to 0.3 foot over coarse silty fill with some gravel to 2.5 feet over clayey soil fill to 9.5 feet over sand and gravel fill to 10.0 feet over clayey fill with wet gravel layers to 15.5 feet over clayey lake sediment to end of boring

Well Completed at 18.0' BGS

No Water at Completion

LOGGED BY: Dale M. Gramza / Senior Geologist

APPENDIX B

Test Pit Logs

TEST PIT LOG

DATE: 6/4/13 LOCATION: 373 Hertel Ave, Buffalo, NY PROJECT #: A12B-Hertel-ENV

TECHNICIAN: E. Benton/B. Heitzenrater

TEST PIT #	DEPTH	SOIL DESCRIPTION	COMMENTS	PID READING PPM
1	0’- 2’	Urban fill with brick fragments Brown fill dirt	Sample collected at 12” to 20”.	0.00
1	2’ – 4’	Brown fill with some clay, fly ash and cinders	Fill contains scrap metal, wood debris. No odors or staining Test Pit dimensions 20” x 8’ x 4’.	0.00
2	0’- 2’	Brown fill with brick fragments and scrap metal and rock		0.00
2	2’ – 4’	Brick and wood debris, light brown fill dirt	At 3’ crushed red brick and fly ash	0.00
2	4’ +	Foundry sand	Test Pit dimensions 20” x 8’ x 5’.	0.00
3	0’- 2’	Stone fill, gravel, gravel fill and ash		0.00
3	2’ – 4’	Black ash with yellow brick, gray ash and refractory brick	Water table at 3’ 8”.	0.00
3	4’ +	Refractory brick	Test Pit dimensions 20” x 8’ x 5’.	0.00
4	0’- 2’	Topsoil, gravel and soil fill. Brown sandy soil	Horizon of black contamination at 20”	0.00
4	2’ – 4’	Slag and ash, with light brown soil	Water table at 3’ 6” Test Pit dimensions 20” x 8’ x 5’.	0.00
5	0’ - 2’	Top layer of driveway gravel Black sandy soil	Brick, ash and slag	0.00
5	2’ - 4’	Brown fill with refractory brick	Brick, ash and slag	0.00
5	4’ +	Brick, ash and slag	Test Pit dimensions 20” x 8’ x 7’.	0.00

afi/aooo/forms/testpit.wpd

TEST PIT LOG

DATE: 6/4/13 LOCATION: 373 Hertel Ave, Buffalo, NY PROJECT #: A12B-Hertel-ENV

TECHNICIAN: E. Benton/B. Heitzenrater

TEST PIT #	DEPTH	SOIL DESCRIPTION	COMMENTS	PID READING PPM
6	0’- 2’	Gravel fill with rock fragments.	Railway ties at 2’	0.00
6	2’ – 4’	Black ash with slag	Water table at 4’.	0.00
6	4’- 8’	Large rocks, black ash mixed with sand and gravel	Test Pit dimensions 20” x 8’ x 8’.	0.00
7	0’ – 2’	Topsoil followed by black soil mixed with ash		0.00
7	2’ – 4’	Refractory brick mixed with rock and some clay	Red ceramic pipe at 2’ depth Pockets of red ash.	0.00
7	4’- 6’	Dark brown fill with pockets of red ash at 5’		0.00
7	6’ – 8’	Black ash with bricks and brick fragments	Water table at 8. Test Pit dimensions 20” x 8’ x 8’.	0.00
8	0’ – 2’	Top soil followed by black sandy soil		0.00
8	2’ – 4’	Black sandy soil	Horizon of red ash at 2’ 5”	0.00
8	4’- 6’	Black sandy soil mixed with ash and clay	.	0.00
8	6’ – 8’	Black sandy soil mixed with ash and clay	Perched water at 7’ Test Pit dimensions 20” x 8’ x 8’.	0.00

APPENDIX C

Waste Disposal Receipts

EnSol, Inc.
Environmental Solutions
Professional Engineering · Business Consulting

661 Main Street
Niagara Falls, NY 14301
Ph (716) 285-3920 · Fx (716) 285-3928
E-Mail jbattaglia@ensolinc.com

Manifest Invoicing

Page 1 of 1

Project No: 13-3493-01T

Customer Name:
Buffalo Environmental Consultants, Inc.

Address: 1100 Shetter Avenue, Suite 202
City: Jacksonville
State: Florida **Zip:** 32250

Generator Name:
Hertel Warehouse, Inc.

Address: 380 Vulcan Stree
City: Buffalo
State: NY **Zip:** 14207

Location Name :
Hertel Warehouse, Inc.

Address: 373 Hertel Avenue
City: Buffalo
State: NY **Zip:** 1420

Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
418467	6/25/2013		128516	1	3.18	0	3.18	0	
418468	6/25/2013		23120	172	14.68	0	14.68	0	
418469	6/25/2013		128525	2	6.32	0	6.32	0	

Number of Mainfests: 3
Code 1: 3562
Date 1: 06/28/2013

Total Actual Tonnage:	**24.18**	**Total Billable Tonnage:**	**24.18**	**Total Liners Used**	**0**	**Total Time (minutes)**	

CARMEN M. PARISO, INC.

3649 RIVER ROAD
TONAWANDA, NEW YORK 14150
OFFICE: (716) 875-6168 FAX: (716) 875-4121
SCALE: (716) 875-0902

TANDEMS **TRI-AXLES** **DUMP TRAILERS**

VARIETY OF PRODUCTS AVAILABLE FROM OUR STOCKPILES

CUSTOMER # ATI Environmental

TICKET # P128516

CUSTOMER NAME

DATE 06/25/2013

TIME 10:05AM

DELIVERED

JOB # Hertel 4761

PICKED UP

SHIP TO Ton. Landfill

CUSTOMER P.O. #

GROSS	16880 lb	POUNDS	MATERIAL
TARE	10500 lb	POUNDS	HAULING
NET	6380 lb	POUNDS	TAX
	3.18 t		
			TOTAL

PRODUCT cont. soil CODE

CUSTOMER SIGNATURE

WEIGHMASTER: CARMEN M. PARISO
N.Y.S. LICENSE #140123

WEIGHED BY

TRUCK NO. 1 TRUCKING CO.: ATI

TRUCKER'S SIGNATURE

CUSTOMER 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number N/A

2. Page 1 of

3. Emergency Response Phone 716-285-3920

4. Waste Tracking Number ES-418467

5. Generator's Name and Mailing Address
Hertel Warehouse, Inc., , 380 Vulcan Street, , Buffalo NY 14207, Donald Sadkin

Generator's Phone: 716-283-7645

Generator's Site Address (if different than mailing address)
Hertel Warehouse, Inc., , 373 Hertel Avenue, , Buffalo NY 14207, William Heitzenrater

6. Transporter 1 Company Name
Buffalo Environmental Consultants
904-329-4925

U.S. EPA ID Number FL-021

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

Facility's Phone: 716-285-3920

U.S. EPA ID Number N/A

Entered

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
2. , , ,				
3. , , ,				
4. , , ,				

Hale Tel Dt Ticket

13. Special Handling Instructions and Additional Information
Emergency Contact: Ensol, Inc. Nick Morreale
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: 007
Truck Lic.: 4761 JV
Handling Codes:

Weight Ticket No.: P128516
Gross Weight: 16,880
Tare Weight: 10,500
, , , 6,380
3.18 T

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Hertel Warehouse Inc
Signature: D Sadkin
Month 6 Day 25 Year 2013

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Buffalo Envir Con. Inc (AFT
Signature
Month 6 Day 25 Year 2013

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #13 Estimated. Actual Weight = 3.18

Manifest Reference Number: 418467

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: J. Chinab
Signature
Month 6 Day 25 Year 13

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

Triad Recycling & Energy Corp.

3755 RIVER ROAD · TONAWANDA, NEW YORK 14150
(716) 235-8822 • FAX: (716) 235-8824
www.triadrecycle.com

Construction and Demolition Debris Processing Facility

RECYCLING OF ASPHALT ROOF SHINGLES, BLACKTOP, BRICK
CARDBOARD, CONCRETE, DRYWALL, METAL, PLASTIC, WOOD

Dumpster Containers Available!

CUSTOMER #

TICKET # 23120

CUSTOMER NAME AFI

DATE 06/25/2013

TIME 10:02AM

DELIVERED

JOB # Pebble Hill

PICKED UP

SHIP TO 8517 [illegible]

CUSTOMER P.O. #

GROSS 28280 lb POUNDS

TARE 12.630 POUNDS

NET [illegible] POUNDS

MATERIAL

HAULING

TAX

TOTAL

PRODUCT ______________________ CODE ________

CUSTOMER SIGNATURE ______________________

WEIGHMASTERS: **STEVE HANNON**
N.Y.S. LICENSE #600813

WEIGHED BY ________

TRUCK NO. ________ TRUCKING CO.: ________

TRUCKER'S SIGNATURE ______________________

CUSTOMER 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of
3. Emergency Response Phone: 716-285-3920
4. Waste Tracking Number: ES-418468

5. Generator's Name and Mailing Address
Hertel Warehouse, Inc., , 380 Vulcan Street, , Buffalo NY 14207, Donald Sadkin
Generator's Phone: 716-283-7645

Generator's Site Address (if different than mailing address)
Hertel Warehouse, Inc., , 373 Hertel Avenue, , Buffalo NY 14207, William Heitzenrater

6. Transporter 1 Company Name
Buffalo Environmental Consultants
904-329-4925
U.S. EPA ID Number: FL-021

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY
Facility's Phone: 716-285-3920
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
	2. , , ,				
	3. , , ,				
	4. , , ,				

13. Special Handling Instructions and Additional Information
Emergency Contact: Ensol, Inc. Nick Morreale
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: N 8517 [illegible] Peterbilt
Truck Lic.: P5172KA [illegible]
Handling Codes:
Weight Ticket No.: 23120
Gross Weight: 28280
Tare Weight: ~~[illegible]~~

14. ~~GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents~~ of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Hertel Warehouse Inc Don Sadkin
Signature:
Month 6 Day 25 Year 201

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Buffalo Environmental Con (AFT
Signature:
Month 6 Day 20 Year 2011
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Item #13 Estimated. Actual Weight = 14.68
Manifest Reference Number: 418468

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: J Amodo
Signature:
Month 6 Day 25 Year 13

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DESIGNATED FACILITY'S COPY

CARMEN M. PARISO, INC.

3649 RIVER ROAD
TONAWANDA, NEW YORK 14150
OFFICE: (716) 875-6168 FAX: (716) 875-4121
SCALE: (716) 875-0902

TANDEMS **TRI-AXLES** **DUMP TRAILERS**

VARIETY OF PRODUCTS AVAILABLE FROM OUR STOCKPILES

CUSTOMER # A1 1 Environmental

TICKET # **P128525**

CUSTOMER NAME

DATE 06/25/2013
TIME 11:54AM

DELIVERED

JOB # Hertel

PICKED UP

SHIP TO Ton. Landfill

CUSTOMER P.O. # -

GROSS	27340 lb	POUNDS	MATERIAL
TARE	14700 lb	POUNDS	HAULING
NET	12640 lb	POUNDS	TAX
	6.32 t		
			TOTAL

PRODUCT 1 Cont. Soil CODE

CUSTOMER SIGNATURE

WEIGHMASTER: **CARMEN M. PARISO**
N.Y.S. LICENSE #140123

WEIGHED BY

TRUCK NO. 2 TRUCKING CO.: A1 1

TRUCKER'S SIGNATURE

CUSTOMER 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A

2. Page 1 of

3. Emergency Response Phone: 716-285-3920

4. Waste Tracking Number: ES-418469

5. Generator's Name and Mailing Address:
Hertel Warehouse, Inc., , 380 Vulcan
Street, , Buffalo NY 14207, Donald Sadkin

Generator's Site Address (if different than mailing address):
Hertel Warehouse, Inc., , 373 Hertel
Avenue, , Buffalo NY 14207, William
Heitzenrater

Generator's Phone: 716-283-7645

6. Transporter 1 Company Name: Buffalo Environmental Consultants
904-329-4925

U.S. EPA ID Number: FL-021

7. Transporter 2 Company Name:

U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

U.S. EPA ID Number: N/A

Facility's Phone: 716-285-3920

GENERATOR

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
2.	, , ,				
3.	, , ,				
4.	, , ,				

13. Special Handling Instructions and Additional Information

Emergency Contact: Ensol, Inc. Nick Morreale
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: Peterbilt 02
Truck Lic.: 85172 KA
Handling Codes:

Weight Ticket No.: P128525
Gross Weight: 27340
Tare Weight: 14700
, , , 6.32T

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Don Sadkin

Signature: Don Sadk

Month 6 Day 25 Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jon Heitzenrater

Signature:

Month 6 Day 25 Year 13

Transporter 2 Printed/Typed Name:

Signature:

Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #13 Estimated. Actual Weight = 6.32 T

Manifest Reference Number: 418469

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: J Quiodo

Signature:

Month 6 Day 25 Year 13

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DESIGNATED FACILITY'S COPY

EnSol, Inc.
Environmental Solutions
Professional Engineering · Business Consulting

661 Main Street
Niagara Falls, NY 14301
Ph (716) 285-3920 · Fx (716) 285-3928
E-Mail jbattaglia@ensolinc.com

Manifest Invoicing

Page 1 of 1

Project No: 13-3493-01T

Customer Name:
Buffalo Environmental Consultants, Inc.

Address: 1100 Shetter Avenue, Suite 202
City: Jacksonville
State: Florida **Zip:** 32250

Generator Name:
Hertel Warehouse, Inc.

Address: 380 Vulcan Stree
City: Buffalo
State: NY **Zip:** 14207

Location Name :
Hertel Warehouse, Inc.

Address: 373 Hertel Avenue
City: Buffalo
State: NY **Zip:** 1420

Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
418453	6/24/2013		128481	19	24.26	22	24.26	0	
418454	6/24/2013		128487	13	20.44	22	22.00	0	
418455	6/24/2013		128457	19	24.88	22	24.88	0	
418456	6/24/2013		123467	13	19.02	22	22.00	0	
418457	6/24/2013		128455	13	23.56	22	23.56	0	
418459	6/24/2013		128492	100	24.38	22	24.38	0	20
418460	6/24/2013		128474	100	23.54	22	23.54	0	
418461	6/24/2013		128462	100	25.00	22	25.00	0	

Number of Mainfests: 8
Code 1: 3561
Date 1: 06/28/2013

Total Actual Tonnage:	**185.08**	**Total Billable Tonnage:**	**189.62**	**Total Liners Used**	**0**	**Total Time (minutes)**	**20**

CARMEN M. PARISO, INC.

3649 RIVER ROAD
TONAWANDA, NEW YORK 14150
OFFICE: (716) 875-6168 FAX: (716) 875-4121
SCALE: (716) 875-0902

TANDEMS TRI-AXLES DUMP TRAILERS

VARIETY OF PRODUCTS AVAILABLE FROM OUR STOCKPILES

CUSTOMER # DDS

TICKET # **P128481**

CUSTOMER NAME

DATE 06/24/2013
TIME 12:07PM

DELIVERED

JOB #

PICKED UP

SHIP TO Tn. Landfill

CUSTOMER P.O. #

GROSS	74640 lb	POUNDS	MATERIAL
TARE	26120 lb	POUNDS	HAULING
NET	48520 lb	POUNDS	TAX
	24.26 t		
			TOTAL

PRODUCT Top Soil CODE

CUSTOMER SIGNATURE

WEIGHMASTER: **CARMEN M. PARISO**
N.Y.S. LICENSE #140123

WEIGHED BY LP

TRUCK NO. 19

TRUCKING CO.: CAM

TRUCKER'S SIGNATURE

CUSTOMER 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of
3. Emergency Response Phone: 716-285-3920
4. Waste Tracking Number: ES-418453

5. Generator's Name and Mailing Address:
Hertel Warehouse, Inc., , 380 Vulcan
Street, , Buffalo NY 14207, Donald Sadkin

Generator's Phone: 716-283-7645

Generator's Site Address (if different than mailing address):
Hertel Warehouse, Inc. , , 373 Hertel
Avenue, , Buffalo NY 14207, William
Heitzenrater

6. Transporter 1 Company Name: ~~Buffalo Environmental Consultants~~ Parisio Trucking
904-329-4925
U.S. EPA ID Number: ~~[illegible]~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

Facility's Phone: 716-285-3920
U.S. EPA ID Number: N/A

GENERATOR

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
2. , , ,				
3. , , ,				
4. , , ,				

13. Special Handling Instructions and Additional Information
Emergency Contact: Ensol, Inc. Nick Morreale
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: GAM 19
Truck Lic.: 4304 MD
Weight Ticket No.: P09449
Gross Weight: 74646
Tare Weight: 26,120
, , ,
Handling Codes:

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Don Sadkins
Signature: Don Sadkins
Month 6 Day 24 Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tony Madonia
Signature: Tony
Month 6 Day 24 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Item #13 Estimated. Actual Weight = 24026
Manifest Reference Number: 418453

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: R Gibbon
Signature:
Month 6 Day 24 Year 13

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

CARMEN M. PARISO, INC.

3649 RIVER ROAD
TONAWANDA, NEW YORK 14150
OFFICE: (716) 875-6168 FAX: (716) 875-4121
SCALE: (716) 875-0902

TANDEMS **TRI-AXLES** **DUMP TRAILERS**

VARIETY OF PRODUCTS AVAILABLE FROM OUR STOCKPILES

CUSTOMER #

CUSTOMER NAME

TICKET # P128487

DATE 06/24/2013

TIME 12:28PM

DELIVERED

JOB #

PICKED UP

SHIP TO Ton. Landfill

CUSTOMER P.O. #

GROSS	66680 lb	POUNDS	MATERIAL
TARE	25800 lb	POUNDS	HAULING
NET	40880 lb 20.44 t	POUNDS	TAX
			TOTAL

PRODUCT Cont. Soil CODE

CUSTOMER SIGNATURE

WEIGHMASTER: **CARMEN M. PARISO**
N.Y.S. LICENSE #140123

WEIGHED BY

TRUCK NO. 13 TRUCKING CO.: CAM

TRUCKER'S SIGNATURE

CUSTOMER 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of
3. Emergency Response Phone: 716-285-3920
4. Waste Tracking Number: ES-418454

5. Generator's Name and Mailing Address:
Hertel Warehouse, Inc., , 380 Vulcan
Street, , Buffalo NY 14207, Donald Sadkin
Generator's Phone: 716-283-7645

Generator's Site Address (if different than mailing address):
Hertel Warehouse, Inc., , 373 Hertel
Avenue, , Buffalo NY 14207, William
Heitzenrater

6. Transporter 1 Company Name: ~~Buffalo Environmental Consultants~~ ~~904-329-7926~~ Pacisio Trucking
U.S. EPA ID Number: ~~[illegible]-021~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY
Facility's Phone: 716-285-3920
U.S. EPA ID Number: N/A

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
2. , , ,				
3. , , ,				
4. , , ,				

13. Special Handling Instructions and Additional Information
Emergency Contact: Ensol, Inc: Nick Morreale
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: GAM 13
Truck Lic.: 42969
Handling Codes:
Weight Ticket No.: 128487
Gross Weight: 66680
Tare Weight: 25800
, , ,

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Don Sadkin
Signature: Don Sadkin
Month Day Year: 6 24 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeff Poyer
Signature: Jeff Poyer
Month Day Year: 6 24 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Item #13 Estimated. Actual Weight = 20.44
Manifest Reference Number: 418454

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: R. Gibbons
Signature:
Month Day Year: 6 24 13

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

CARMEN M. PARISO, INC.

3649 RIVER ROAD
TONAWANDA, NEW YORK 14150
OFFICE: (716) 875-6168 FAX: (716) 875-4121
SCALE: (716) 875-0902

TANDEMS TRI-AXLES DUMP TRAILERS

VARIETY OF PRODUCTS AVAILABLE FROM OUR STOCKPILES

CUSTOMER # Fred

TICKET # **P128457**

CUSTOMER NAME

DATE 06/24/2013
TIME 09:55AM

DELIVERED

JOB # [illegible]

PICKED UP

SHIP TO Ton. Landfill

CUSTOMER P.O. #

GROSS	75800 lb	POUNDS	MATERIAL
TARE	26120 lb	POUNDS	HAULING
NET	49760 lb 24.88 t	POUNDS	TAX
			TOTAL

PRODUCT Cont. Soil CODE

CUSTOMER SIGNATURE

WEIGHMASTER: **CARMEN M. PARISO**
N.Y.S. LICENSE #140123

WEIGHED BY TK

TRUCK NO. 19

TRUCKING CO.: [illegible]

TRUCKER'S SIGNATURE

CUSTOMER 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of
3. Emergency Response Phone: 716-285-3920
4. **Waste Tracking Number:** ES-418455

5. Generator's Name and Mailing Address:
Hertel Warehouse, Inc., , 380 Vulcan Street, , Buffalo NY 14207, Donald Sadkin

Generator's Phone: 716-283-7645

Generator's Site Address (if different than mailing address):
Hertel Warehouse, Inc., , 373 Hertel Avenue, , Buffalo NY 14207, William Heitzenrater

6. Transporter 1 Company Name: ~~Buffalo Environmental Consultants~~ ~~904-329-4925~~ Parisio Trucking
U.S. EPA ID Number: ~~EL-021~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

Facility's Phone: 716-285-3920
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
2.	, , ,				
3.	, , ,				
4.	, , ,				

13. Special Handling Instructions and Additional Information
Emergency Contact: Ensol, Inc.: Nick Morreale
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: GAM 19
Truck Lic.: 4304 MD
Handling Codes:
Weight Ticket No.: P128457
Gross Weight: 75880
Tare Weight: 26,120
, , ,

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Don Sadkins
Signature: D Sadkin
Month 6 Day 24 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: TONY MADONIA
Signature:
Month 6 Day 24 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #13 Estimated. Actual Weight = 24.88

Manifest Reference Number: 418455

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: R Gibbons
Signature:
Month 6 Day 24 Year 13

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

CARMEN M. PARISO, INC.

3649 RIVER ROAD
TONAWANDA, NEW YORK 14150
OFFICE: (716) 875-6168 FAX: (716) 875-4121
SCALE: (716) 875-0902

TANDEMS TRI-AXLES DUMP TRAILERS

VARIETY OF PRODUCTS AVAILABLE FROM OUR STOCKPILES

CUSTOMER #
CUSTOMER NAME Engel

TICKET # **P**123467
DATE 06/24/2013
TIME 10:44AM
DELIVERED
PICKED UP
CUSTOMER P.O. #

JOB #
SHIP TO Ton. landfill

GROSS	63820 lb	POUNDS
TARE	25800 lb	POUNDS
NET	38020 lb	POUNDS
	19.02 t	

MATERIAL
HAULING
TAX
TOTAL

PRODUCT cont. soil CODE

CUSTOMER SIGNATURE

WEIGHMASTER: **CARMEN M. PARISO**
N.Y.S. LICENSE #140123

WEIGHED BY

TRUCK NO. 13
TRUCKING CO.: GAM

TRUCKER'S SIGNATURE

CUSTOMER 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A

2. Page 1 of

3. Emergency Response Phone: 716-285-3920

4. Waste Tracking Number: ES-418456

5. Generator's Name and Mailing Address
Hertel Warehouse, Inc., , 380 Vulcan
Street, , Buffalo NY 14207, Donald Sadkin

Generator's Phone: 716-283-7645

Generator's Site Address (if different than mailing address)
Hertel Warehouse, Inc., , 373 Hertel
Avenue, , Buffalo NY 14207, William
Heitzenrater

6. Transporter 1 Company Name
~~[illegible] Environmental Consultants~~
~~904-329-4925~~
Paciso Trucking

U.S. EPA ID Number: ~~[illegible]~~

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

Facility's Phone: 716-285-3920

U.S. EPA ID Number: N/A

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
2. , , ,				
3. , , ,				
4. , , ,				

13. Special Handling Instructions and Additional Information
Emergency Contact: Ensol, Inc. Nick Morreale,
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: GAM 13
Truck Lic.: 12969-MD

Weight Ticket No.: 128467
Gross Weight: 63820
Tare Weight: 25800
, , ,

Handling Codes:

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Don Sadkins
Signature: Don Sadkins
Month Day Year: 6 24 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeff Payer
Signature:
Month Day Year: 6 24 13

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #13 Estimated. Actual Weight = 19.02

Manifest Reference Number: 418456

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: R [illegible]
Signature
Month Day Year: 6 24 13

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

CARMEN M. PARISO, INC.

3649 RIVER ROAD
TONAWANDA, NEW YORK 14150
OFFICE: (716) 875-6168 FAX: (716) 875-4121
SCALE: (716) 875-0902

TANDEMS **TRI-AXLES** **DUMP TRAILERS**

VARIETY OF PRODUCTS AVAILABLE FROM OUR STOCKPILES

CUSTOMER # Ensol

TICKET # **P128455**

CUSTOMER NAME

DATE 06/24/2013

TIME 09:32AM

DELIVERED

JOB #

PICKED UP

SHIP TO Ton. Landfill

CUSTOMER P.O. #

GROSS	72920 lb	POUNDS	MATERIAL
TARE	25800 lb	POUNDS	HAULING
NET	47120 lb	POUNDS	TAX
	23.56 t		
			TOTAL

PRODUCT Cont. Soil CODE

CUSTOMER SIGNATURE

WEIGHMASTER: **CARMEN M. PARISO**
N.Y.S. LICENSE #140123

WEIGHED BY

TRUCK NO. 13

TRUCKING CO.: CAll

TRUCKER'S SIGNATURE

CUSTOMER 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A

2. Page 1 of

3. Emergency Response Phone: 716-285-3920

4. Waste Tracking Number: ES-418457

5. Generator's Name and Mailing Address
Hertel Warehouse, Inc., , 380 Vulcan
Street, , Buffalo NY 14207, Donald Sadkin

Generator's Phone: 716-283-7645

Generator's Site Address (if different than mailing address)
Hertel Warehouse, Inc., , 373 Hertel
Avenue, , Buffalo NY 14207, William
Heitzenrater

6. Transporter 1 Company Name
~~Buffalo Environmental Consultants~~ Parisio
~~- 904-329-4925~~

U.S. EPA ID Number
~~EL-001~~

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

Facility's Phone: 716-285-3920

U.S. EPA ID Number
N/A

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
2. , , ,				
3. , , ,				
4. , , ,				

#128455

13. Special Handling Instructions and Additional Information
Emergency Contact: Ensol, Inc. Nick Morreale
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: #13
Truck Lic.: 42969-MD
Handling Codes:

Weight Ticket No.: ~~[illegible]~~
Gross Weight: 22720
Tare Weight: 25800
, , ,

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Don SadKins
Signature: D Sadkin
Month Day Year: 6 24 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeff Payer
Signature: Jeff Payn
Month Day Year: 6 24 13

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #13 Estimated. Actual Weight = 23,56

Manifest Reference Number: 418457

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Mich Rugg
Signature:
Month Day Year: 6 24 13

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

CARMEN M. PARISO, INC.

3649 RIVER ROAD
TONAWANDA, NEW YORK 14150
OFFICE: (716) 875-6168 FAX: (716) 875-4121
SCALE: (716) 875-0902

TANDEMS **TRI-AXLES** **DUMP TRAILERS**

VARIETY OF PRODUCTS AVAILABLE FROM OUR STOCKPILES

CUSTOMER # DDS

TICKET # **P**128492

CUSTOMER NAME

DATE 06/24/2013

TIME 01:28PM

DELIVERED

JOB #

PICKED UP

SHIP TO Ton. Landfill

CUSTOMER P.O. #

GROSS	75260 lb	POUNDS	MATERIAL
TARE	26500 lb	POUNDS	HAULING
NET	48760 lb	POUNDS	TAX
	24.38 t		
			TOTAL

PRODUCT Cont. Soil CODE

CUSTOMER SIGNATURE

WEIGHMASTER: **CARMEN M. PARISO**
N.Y.S. LICENSE #140123

WEIGHED BY

TRUCK NO. 100 TRUCKING CO.: EF

TRUCKER'S SIGNATURE

CUSTOMER 2

GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of
3. Emergency Response Phone: 716-285-3920
4. Waste Tracking Number: ES-418459

5. Generator's Name and Mailing Address
Hertel Warehouse, Inc., , 380 Vulcan Street, , Buffalo NY 14207, Donald Sadkin
Generator's Phone: 716-283-7645

Generator's Site Address (if different than mailing address)
Hertel Warehouse, Inc., , 373 Hertel Avenue, , Buffalo NY 14207, William Heitzenrater

6. Transporter 1 Company Name: ~~Buffalo Environmental Consultants~~ ~~984-529-4946~~ Parisio Trucking
U.S. EPA ID Number: ~~[illegible]~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY
Facility's Phone: 716-285-3920
U.S. EPA ID Number: N/A

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
2. , , ,				
3. , , ,				
4. , , ,				

13. Special Handling Instructions and Additional Information
Emergency Contact: Ensol, Inc. Nick Morreale
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: BTS 100
Truck Lic.:
Handling Codes:
Weight Ticket No.: 138492
Gross Weight: 75260
Tare Weight: 26500
, , ,

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Don Sadkin
Signature: Don Sadkin
Month 6 Day 24 Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jake Anderson
Signature: Jake And
Month 6 Day 24 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Item #13 Estimated. Actual Weight = 24.38
Manifest Reference Number: 418459

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: R Caiten
Signature
Month 6 Day 24 Year 13

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

CARMEN M. PARISO, INC.

3649 RIVER ROAD
TONAWANDA, NEW YORK 14150
OFFICE: (716) 875-6168 FAX: (716) 875-4121
SCALE: (716) 875-0902

TANDEMS TRI-AXLES DUMP TRAILERS

VARIETY OF PRODUCTS AVAILABLE
FROM OUR STOCKPILES

CUSTOMER # D.L.S.

TICKET # **P128474**

CUSTOMER NAME

DATE 06/24/2013

TIME 11:35AM

DELIVERED

JOB #

PICKED UP

SHIP TO Ton. Landfill

CUSTOMER P.O. #

GROSS	73560 lb	POUNDS	MATERIAL
TARE	26500 lb	POUNDS	HAULING
NET	47060 lb	POUNDS	TAX
	23.54 t		
			TOTAL

PRODUCT Cont. Soil CODE

CUSTOMER SIGNATURE

WEIGHMASTER: **CARMEN M. PARISO**
N.Y.S. LICENSE #140123

WEIGHED BY

TRUCK NO. 100 TRUCKING CO.: DTS

TRUCKER'S SIGNATURE Jake

CUSTOMER 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A

2. Page 1 of

3. Emergency Response Phone: 716-285-3920

4. Waste Tracking Number: ES-418460

5. Generator's Name and Mailing Address
Hertel Warehouse, Inc , , 380 Vulcan Street, , Buffalo NY 14207, Donald Sadkin

Generator's Phone: 716-283-7645

Generator's Site Address (if different than mailing address)
Hertel Warehouse, Inc. , 373 Hertel Avenue, , Buffalo NY 14207, William Heitzenrater

6. Transporter 1 Company Name
~~Buffalo Environmental Consultants~~
~~904-320-4935~~ Parisio Trucking

U.S. EPA ID Number: ~~FL-021~~

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

Facility's Phone: 716-285-3920

U.S. EPA ID Number: N/A

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
2. , , ,				
3. , , ,				
4. , , ,				

13. Special Handling Instructions and Additional Information
Emergency Contact: EnSol, Inc. Nick Morreale
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: BTS 100
Truck Lic.:
Handling Codes:

Weight Ticket No.: 128474
Gross Weight: 73560
Tare Weight: 26500
, , ,

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Don Sadkin
Signature: Don Sadkin
Month 6 Day 24 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jake Anderson
Signature: Jake And
Month 6 Day 24 Year 13

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #13 Estimated. Actual Weight = 23.54

Manifest Reference Number: 418460

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: R
Signature
Month 6 Day 24 Year 13

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

CARMEN M. PARISO, INC.

3649 RIVER ROAD
TONAWANDA, NEW YORK 14150
OFFICE: (716) 875-6168 FAX: (716) 875-4121
SCALE: (716) 875-0902

TANDEMS **TRI-AXLES** **DUMP TRAILERS**

VARIETY OF PRODUCTS AVAILABLE FROM OUR STOCKPILES

CUSTOMER # Lrd

TICKET # P128462

CUSTOMER NAME

DATE 06/24/2013
TIME 10:23AM

DELIVERED

JOB #

PICKED UP

SHIP TO Ton. Landfill

CUSTOMER P.O. #

GROSS	76520 lb	POUNDS	MATERIAL
TARE	26500 lb	POUNDS	HAULING
NET	50020 lb	POUNDS	TAX
	25.00 t		
			TOTAL

PRODUCT Cont. Soil CODE

CUSTOMER SIGNATURE

WEIGHMASTER: **CARMEN M. PARISO**
N.Y.S. LICENSE #140123

WEIGHED BY [illegible]

TRUCK NO. 100 100

TRUCKING CO.: [illegible]

TRUCKER'S SIGNATURE Jack

CUSTOMER 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A

2. Page 1 of

3. Emergency Response Phone: 716-285-3920

4. Waste Tracking Number: ES-418461

5. Generator's Name and Mailing Address
Hertel Warehouse, Inc., , 380 Vulcan Street, , Buffalo NY 14207, Donald Sadkin

Generator's Phone: 716-283-7645

Generator's Site Address (if different than mailing address)
Hertel Warehouse, Inc., , 373 Hertel Avenue, , Buffalo NY 14207, William Heitzenrater

6. Transporter 1 Company Name: ~~Buffalo Environmental Consultants~~ ~~904-990-4925~~ Parisio Trucking
U.S. EPA ID Number: ~~[illegible]~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

U.S. EPA ID Number: N/A

Facility's Phone: 716-285-3920

GENERATOR

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non RCRA, Non D.O.T. Regulated Material, AGM Soil, , ,	001	T		T
2.	, , ,				
3.	, , ,				
4.	, , ,				

13. Special Handling Instructions and Additional Information
Emergency Contact: Ensol, Inc. Nick Morreale
EnSol, Inc. Project ID Number: 13-3493-01T
Truck ID: BTS 160
Truck Lic.:
Handling Codes:

Weight Ticket No.: 128462
Gross Weight: 76520
Tare Weight: 26500
, , ,

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Don Sadkins
Signature: Don Sadkins
Month 6 Day 24 Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jake Anderson
Signature: Jake An
Month 6 Day 24 Year 13

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #13 Estimated. Actual Weight = 2500

Manifest Reference Number: 418461

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: R Gibbon
Signature
Month 6 Day 24 Year 13

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

REPUBLIC SERVICES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1030909

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number

b. Manifest Document Number

c. Page 1 of

d. Generator's Name and Location:
Hertel Warehouse, Inc.
373 Hertel Avenue
Buffalo, NY 14207

f. Phone: [illegible]

e. Generator's Mailing Address:
Hertel Warehouse, Inc.
SAME

g. Phone: [illegible]

If owner of the generating facility differs from the generator, provide:

h. Owner's Name:

i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
A. 42151310237	6/12/2014	Volatile Organic Contamian				
B.						
C.						

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print): Don Sandkins
q. Signature: Don S
r. Date: 7-26-13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
Buffalo Environmental Consultants, Inc FL-021

b. Phone: (904)-329-4925

c. Driver Name (Print): Jon Heitmeite
d. Signature:
e. Date: 7-26-13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:
Allied Waste Niagara Falls Landfill LLC
5600 Niagara Falls Boulevard
Niagara Falls, NY 14304

b. 716-285-3344

c. US EPA Number

d. Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)
f. Signature
g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:

b. Phone:

c. Responsible Agency Name and Address:

d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)
h. Signature
i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

REV 12/10

TRANSPORTER RETAIN

RS-F11A

APPENDIX D

Laboratory Analytical Data

PHOENIX
Environmental Laboratories, Inc.

Thursday, June 20, 2013

Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Project ID: A12B-HERTEL ENV.
Sample ID#s: BD85796 - BD85800

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Report

June 20, 2013

FOR: Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JH	05/29/13	13:35
Location Code:	AFI-ENV	Received by:	LB	06/01/13	9:45
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	A12B-HERTEL-ENV				

Laboratory Data

SDG ID: GBD85796
Phoenix ID: BD85796

Project ID: A12B-HERTEL ENV.
Client ID: SS-1-52913

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Aluminum	4390	N	410	81	mg/Kg	06/04/13	EK	SW6010
Antimony	< 2.0	N	2.0	0.81	mg/Kg	06/04/13	EK	SW6010
Arsenic	4.2	*	0.8	0.81	mg/Kg	06/04/13	LK	SW6010
Barium	215		0.8	0.16	mg/Kg	06/04/13	LK	SW6010
Beryllium	0.31	B	0.32	0.16	mg/Kg	06/04/13	LK	SW6010
Calcium	141000	N*	410	370	mg/Kg	06/04/13	EK	SW6010
Cadmium	3.33		0.41	0.16	mg/Kg	06/04/13	LK	SW6010
Chromium	34.0		0.41	0.16	mg/Kg	06/04/13	LK	SW6010
Cobalt	2.41		0.41	0.16	mg/Kg	06/04/13	LK	SW6010
Copper	62.5		0.41	0.32	mg/kg	06/04/13	EK	SW6010
Iron	19500	N	41	41	mg/Kg	06/04/13	LK	SW6010
Lead	69.1		0.8	0.24	mg/Kg	06/04/13	LK	SW6010
Magnesium	28100	N	41	2.4	mg/Kg	06/04/13	LK	SW6010
Manganese	660	N	4.1	1.6	mg/Kg	06/04/13	LK	SW6010
Mercury	0.07	B	0.10	0.06	mg/Kg	06/04/13	RS	SW-7471
Nickel	18.1		0.41	0.16	mg/Kg	06/04/13	LK	SW6010
Potassium	654	N	81	32	mg/Kg	06/04/13	LK	SW6010
Selenium	< 1.6		1.6	1.4	mg/Kg	06/04/13	EK	SW6010
Silver	< 0.41		0.41	0.24	mg/Kg	06/04/13	LK	SW6010
Sodium	4380		8	3.5	mg/Kg	06/04/13	LK	SW6010
Thallium	< 1.6		1.6	1.6	mg/Kg	06/04/13	LK	SW6010
Vanadium	29.1		0.4	0.16	mg/Kg	06/04/13	LK	SW6010
Zinc	696		8.1	4.1	mg/Kg	06/04/13	LK	SW6010
Percent Solid	76				%	06/03/13	JL	E160.3
Soil Extraction for PCB	Completed					06/03/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed					06/03/13	BB	SW3545
Soil Extraction for SVOA	Completed					06/03/13	JJ/FV	SW3545
Mercury Digestion	Completed					06/04/13	H/H	SW7471

Project ID: A12B-HERTEL ENV.
Client ID: SS-1-52913

Phoenix I.D.: BD85796

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				06/03/13	Z/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1221	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1232	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1242	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1248	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1254	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1260	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1262	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1268	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
QA/QC Surrogates							
% DCBP	68			%	06/04/13	AW	30 - 150 %
% TCMX	61			%	06/04/13	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	15	15	ug/Kg	06/04/13	MH	SW8081
4,4' -DDE	ND	15	15	ug/Kg	06/04/13	MH	SW8081
4,4' -DDT	ND	15	15	ug/Kg	06/04/13	MH	SW8081
a-BHC	ND	11	11	ug/Kg	06/04/13	MH	SW8081
a-Chlordane	ND	21	21	ug/Kg	06/04/13	MH	SW8081
Aldrin	ND	11	11	ug/Kg	06/04/13	MH	SW8081
b-BHC	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Chlordane	ND	130	130	ug/Kg	06/04/13	MH	SW8081
d-BHC	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Dieldrin	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Endosulfan I	ND	21	21	ug/Kg	06/04/13	MH	SW8081
Endosulfan II	ND	21	21	ug/Kg	06/04/13	MH	SW8081
Endosulfan sulfate	ND	21	21	ug/Kg	06/04/13	MH	SW8081
Endrin	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Endrin aldehyde	ND	21	21	ug/Kg	06/04/13	MH	SW8081
Endrin ketone	ND	11	11	ug/Kg	06/04/13	MH	SW8081
g-BHC	ND	11	11	ug/Kg	06/04/13	MH	SW8081
g-Chlordane	ND	21	21	ug/Kg	06/04/13	MH	SW8081
Heptachlor	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Heptachlor epoxide	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Methoxychlor	ND	43	43	ug/Kg	06/04/13	MH	SW8081
Toxaphene	ND	200	200	ug/Kg	06/04/13	MH	SW8081
QA/QC Surrogates							
% DCBP	92			%	06/04/13	MH	30 - 150 %
% TCMX	92			%	06/04/13	MH	30 - 150 %
Semivolatiles							
1,1-Biphenyl	ND	310	130	ug/Kg	06/04/13	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	310	150	ug/Kg	06/04/13	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	310	210	ug/Kg	06/04/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	310	240	ug/Kg	06/04/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	180	140	ug/Kg	06/04/13	DD	SW 8270
2,4-Dichlorophenol	ND	180	150	ug/Kg	06/04/13	DD	SW 8270

Project ID: A12B-HERTEL ENV.
Client ID: SS-1-52913

Phoenix I.D.: BD85796

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
2,4-Dimethylphenol	ND		310	110	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dinitrophenol	ND		310	310	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dinitrotoluene	ND		180	170	ug/Kg	06/04/13	DD	SW 8270	
2,6-Dinitrotoluene	ND		180	140	ug/Kg	06/04/13	DD	SW 8270	
2-Chloronaphthalene	ND		310	120	ug/Kg	06/04/13	DD	SW 8270	
2-Chlorophenol	ND		310	120	ug/Kg	06/04/13	DD	SW 8270	
2-Methylnaphthalene	ND		310	130	ug/Kg	06/04/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		310	210	ug/Kg	06/04/13	DD	SW 8270	
2-Nitroaniline	ND		2200	440	ug/Kg	06/04/13	DD	SW 8270	
2-Nitrophenol	ND		310	280	ug/Kg	06/04/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	210	J	310	170	ug/Kg	06/04/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND		180	180	ug/Kg	06/04/13	DD	SW 8270	
3-Nitroaniline	ND		2200	950	ug/Kg	06/04/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		310	310	ug/Kg	06/04/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		310	130	ug/Kg	06/04/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND		310	150	ug/Kg	06/04/13	DD	SW 8270	
4-Chloroaniline	ND		880	200	ug/Kg	06/04/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		310	150	ug/Kg	06/04/13	DD	SW 8270	
4-Nitroaniline	ND		2200	150	ug/Kg	06/04/13	DD	SW 8270	
4-Nitrophenol	ND		2200	200	ug/Kg	06/04/13	DD	SW 8270	
Acenaphthene	ND		310	130	ug/Kg	06/04/13	DD	SW 8270	
Acenaphthylene	ND		180	120	ug/Kg	06/04/13	DD	SW 8270	
Acetophenone	ND		310	140	ug/Kg	06/04/13	DD	SW 8270	
Anthracene	310		310	140	ug/Kg	06/04/13	DD	SW 8270	
Atrazine	ND		180	180	ug/Kg	06/04/13	DD	SW 8270	
Benz(a)anthracene	1600		310	150	ug/Kg	06/04/13	DD	SW 8270	
Benzaldehyde	ND		310	130	ug/Kg	06/04/13	DD	SW 8270	
Benzo(a)pyrene	2200		180	140	ug/Kg	06/04/13	DD	SW 8270	
Benzo(b)fluoranthene	3300		310	150	ug/Kg	06/04/13	DD	SW 8270	
Benzo(ghi)perylene	1400		310	140	ug/Kg	06/04/13	DD	SW 8270	
Benzo(k)fluoranthene	940		310	150	ug/Kg	06/04/13	DD	SW 8270	
Benzyl butyl phthalate	410		310	110	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND		310	120	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND		180	120	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND		310	120	ug/Kg	06/04/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	170	J	310	130	ug/Kg	06/04/13	DD	SW 8270	
Caprolactam	ND		310	310	ug/Kg	06/04/13	DD	SW 8270	
Carbazole	390	J	2200	330	ug/Kg	06/04/13	DD	SW 8270	
Chrysene	2100		310	150	ug/Kg	06/04/13	DD	SW 8270	
Dibenz(a,h)anthracene	410		180	140	ug/Kg	06/04/13	DD	SW 8270	
Dibenzofuran	ND		310	130	ug/Kg	06/04/13	DD	SW 8270	
Diethyl phthalate	280	J	310	140	ug/Kg	06/04/13	DD	SW 8270	
Dimethylphthalate	ND		310	140	ug/Kg	06/04/13	DD	SW 8270	
Di-n-butylphthalate	ND		310	120	ug/Kg	06/04/13	DD	SW 8270	
Di-n-octylphthalate	ND		310	110	ug/Kg	06/04/13	DD	SW 8270	
Fluoranthene	3000		310	140	ug/Kg	06/04/13	DD	SW 8270	
Fluorene	ND		310	140	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorobenzene	ND		180	130	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorobutadiene	ND		310	160	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND		310	130	ug/Kg	06/04/13	DD	SW 8270	

Project ID: A12B-HERTEL ENV.
Client ID: SS-1-52913

Phoenix I.D.: BD85796

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Hexachloroethane	ND	180	130	ug/Kg	06/04/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	1300	310	150	ug/Kg	06/04/13	DD	SW 8270
Isophorone	ND	180	120	ug/Kg	06/04/13	DD	SW 8270
Naphthalene	ND	310	130	ug/Kg	06/04/13	DD	SW 8270
Nitrobenzene	ND	180	150	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodimethylamine	ND	310	120	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	180	140	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	180	170	ug/Kg	06/04/13	DD	SW 8270
Pentachlorophenol	ND	310	170	ug/Kg	06/04/13	DD	SW 8270
Phenanthrene	1200	180	130	ug/Kg	06/04/13	DD	SW 8270
Phenol	ND	310	140	ug/Kg	06/04/13	DD	SW 8270
Pyrene	2700	310	150	ug/Kg	06/04/13	DD	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	93			%	06/04/13	DD	19 - 122 %
% 2-Fluorobiphenyl	89			%	06/04/13	DD	30 - 115 %
% 2-Fluorophenol	71			%	06/04/13	DD	25 - 121 %
% Nitrobenzene-d5	74			%	06/04/13	DD	23 - 120 %
% Phenol-d5	80			%	06/04/13	DD	24 - 113 %
% Terphenyl-d14	97			%	06/04/13	DD	18 - 137 %
SVOA Library Search Top 15	Completed				06/04/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 20, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Report

June 20, 2013

FOR: Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JH	05/29/13	13:49
Location Code:	AFI-ENV	Received by:	LB	06/01/13	9:45
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	A12B-HERTEL-ENV				

Laboratory Data

SDG ID: GBD85796
Phoenix ID: BD85797

Project ID: A12B-HERTEL ENV.
Client ID: SS-2-52913

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Aluminum	46900	N	360	71	mg/Kg	06/04/13	EK	SW6010
Antimony	< 1.8	N	1.8	0.71	mg/Kg	06/04/13	EK	SW6010
Arsenic	1.5	*	0.7	0.71	mg/Kg	06/04/13	LK	SW6010
Barium	390		0.7	0.14	mg/Kg	06/04/13	LK	SW6010
Beryllium	2.10		0.29	0.14	mg/Kg	06/04/13	LK	SW6010
Calcium	97600	N*	36	33	mg/Kg	06/04/13	LK	SW6010
Cadmium	1.37		0.36	0.14	mg/Kg	06/04/13	LK	SW6010
Chromium	241		3.6	1.4	mg/Kg	06/04/13	LK	SW6010
Cobalt	< 0.36		0.36	0.14	mg/Kg	06/04/13	LK	SW6010
Copper	162		36	29	mg/kg	06/04/13	EK	SW6010
Iron	43000	N	36	36	mg/Kg	06/04/13	LK	SW6010
Lead	60.3		0.7	0.21	mg/Kg	06/04/13	LK	SW6010
Magnesium	2640	N	3.6	0.21	mg/Kg	06/04/13	LK	SW6010
Manganese	32000	N	360	140	mg/Kg	06/05/13	LK	SW6010
Mercury	< 0.08		0.08	0.05	mg/Kg	06/04/13	RS	SW-7471
Nickel	13.6		0.36	0.14	mg/Kg	06/04/13	LK	SW6010
Potassium	5000	N	71	28	mg/Kg	06/04/13	LK	SW6010
Selenium	< 1.4		1.4	1.2	mg/Kg	06/04/13	LK	SW6010
Silver	< 0.36		0.36	0.21	mg/Kg	06/04/13	EK	SW6010
Sodium	1760		7	3.1	mg/Kg	06/04/13	LK	SW6010
Thallium	< 1.4		1.4	1.4	mg/Kg	06/04/13	LK	SW6010
Vanadium	84.3		0.4	0.14	mg/Kg	06/04/13	LK	SW6010
Zinc	122		0.7	0.36	mg/Kg	06/04/13	LK	SW6010
Percent Solid	91				%	06/03/13	JL	E160.3
Soil Extraction for PCB	Completed					06/03/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed					06/03/13	BB	SW3545
Soil Extraction for SVOA	Completed					06/03/13	JJ/FV	SW3545
Mercury Digestion	Completed					06/04/13	H/H	SW7471

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				06/03/13	Z/AG	SW846 - 3050

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
PCB-1016	ND	36	36	ug/Kg	06/04/13	AW	SW 8082
PCB-1221	ND	36	36	ug/Kg	06/04/13	AW	SW 8082
PCB-1232	ND	36	36	ug/Kg	06/04/13	AW	SW 8082
PCB-1242	ND	36	36	ug/Kg	06/04/13	AW	SW 8082
PCB-1248	ND	36	36	ug/Kg	06/04/13	AW	SW 8082
PCB-1254	ND	36	36	ug/Kg	06/04/13	AW	SW 8082
PCB-1260	100	36	36	ug/Kg	06/04/13	AW	SW 8082
PCB-1262	ND	36	36	ug/Kg	06/04/13	AW	SW 8082
PCB-1268	ND	36	36	ug/Kg	06/04/13	AW	SW 8082
QA/QC Surrogates							
% DCBP	71			%	06/04/13	AW	30 - 150 %
% TCMX	60			%	06/04/13	AW	30 - 150 %

Pesticides - Soil

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
4,4' -DDD	ND	13	13	ug/Kg	06/04/13	MH	SW8081
4,4' -DDE	ND	13	13	ug/Kg	06/04/13	MH	SW8081
4,4' -DDT	ND	13	13	ug/Kg	06/04/13	MH	SW8081
a-BHC	ND	9.0	9.0	ug/Kg	06/04/13	MH	SW8081
a-Chlordane	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Aldrin	ND	9.0	9.0	ug/Kg	06/04/13	MH	SW8081
b-BHC	ND	9.0	9.0	ug/Kg	06/04/13	MH	SW8081
Chlordane	ND	110	110	ug/Kg	06/04/13	MH	SW8081
d-BHC	ND	9.0	9.0	ug/Kg	06/04/13	MH	SW8081
Dieldrin	ND	9.0	9.0	ug/Kg	06/04/13	MH	SW8081
Endosulfan I	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Endosulfan II	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Endosulfan sulfate	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Endrin	ND	9.0	9.0	ug/Kg	06/04/13	MH	SW8081
Endrin aldehyde	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Endrin ketone	ND	9.0	9.0	ug/Kg	06/04/13	MH	SW8081
g-BHC	ND	9.0	9.0	ug/Kg	06/04/13	MH	SW8081
g-Chlordane	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Heptachlor	ND	9.0	9.0	ug/Kg	06/04/13	MH	SW8081
Heptachlor epoxide	ND	9.0	9.0	ug/Kg	06/04/13	MH	SW8081
Methoxychlor	ND	36	36	ug/Kg	06/04/13	MH	SW8081
Toxaphene	ND	170	170	ug/Kg	06/04/13	MH	SW8081
QA/QC Surrogates							
% DCBP	96			%	06/04/13	MH	30 - 150 %
% TCMX	102			%	06/04/13	MH	30 - 150 %

Semivolatiles

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1-Biphenyl	ND	250	110	ug/Kg	06/04/13	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	06/04/13	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	250	170	ug/Kg	06/04/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	06/04/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	150	120	ug/Kg	06/04/13	DD	SW 8270
2,4-Dichlorophenol	ND	150	130	ug/Kg	06/04/13	DD	SW 8270

Project ID: A12B-HERTEL ENV.
Client ID: SS-2-52913

Phoenix I.D.: BD85797

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
2,4-Dimethylphenol	ND		250	90	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dinitrophenol	ND		250	250	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dinitrotoluene	ND		150	140	ug/Kg	06/04/13	DD	SW 8270	
2,6-Dinitrotoluene	ND		150	110	ug/Kg	06/04/13	DD	SW 8270	
2-Chloronaphthalene	ND		250	100	ug/Kg	06/04/13	DD	SW 8270	
2-Chlorophenol	ND		250	100	ug/Kg	06/04/13	DD	SW 8270	
2-Methylnaphthalene	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		250	170	ug/Kg	06/04/13	DD	SW 8270	
2-Nitroaniline	ND		1800	370	ug/Kg	06/04/13	DD	SW 8270	
2-Nitrophenol	ND		250	230	ug/Kg	06/04/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND		250	140	ug/Kg	06/04/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND		150	150	ug/Kg	06/04/13	DD	SW 8270	
3-Nitroaniline	ND		1800	790	ug/Kg	06/04/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		250	250	ug/Kg	06/04/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND		250	130	ug/Kg	06/04/13	DD	SW 8270	
4-Chloroaniline	ND		730	170	ug/Kg	06/04/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		250	120	ug/Kg	06/04/13	DD	SW 8270	
4-Nitroaniline	ND		1800	120	ug/Kg	06/04/13	DD	SW 8270	
4-Nitrophenol	ND		1800	160	ug/Kg	06/04/13	DD	SW 8270	
Acenaphthene	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
Acenaphthylene	ND		150	100	ug/Kg	06/04/13	DD	SW 8270	
Acetophenone	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
Anthracene	ND		250	120	ug/Kg	06/04/13	DD	SW 8270	
Atrazine	ND		150	150	ug/Kg	06/04/13	DD	SW 8270	
Benz(a)anthracene	360		250	120	ug/Kg	06/04/13	DD	SW 8270	
Benzaldehyde	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
Benzo(a)pyrene	440		150	120	ug/Kg	06/04/13	DD	SW 8270	
Benzo(b)fluoranthene	690		250	120	ug/Kg	06/04/13	DD	SW 8270	
Benzo(ghi)perylene	430		250	120	ug/Kg	06/04/13	DD	SW 8270	
Benzo(k)fluoranthene	250	J	250	120	ug/Kg	06/04/13	DD	SW 8270	
Benzyl butyl phthalate	ND		250	94	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND		250	100	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND		150	98	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND		250	100	ug/Kg	06/04/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND		250	100	ug/Kg	06/04/13	DD	SW 8270	
Caprolactam	ND		250	250	ug/Kg	06/04/13	DD	SW 8270	
Carbazole	ND		1800	280	ug/Kg	06/04/13	DD	SW 8270	
Chrysene	430		250	120	ug/Kg	06/04/13	DD	SW 8270	
Dibenz(a,h)anthracene	300		150	120	ug/Kg	06/04/13	DD	SW 8270	
Dibenzofuran	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
Diethyl phthalate	520		250	110	ug/Kg	06/04/13	DD	SW 8270	
Dimethylphthalate	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
Di-n-butylphthalate	ND		250	97	ug/Kg	06/04/13	DD	SW 8270	
Di-n-octylphthalate	ND		250	94	ug/Kg	06/04/13	DD	SW 8270	
Fluoranthene	550		250	120	ug/Kg	06/04/13	DD	SW 8270	
Fluorene	ND		250	120	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorobenzene	ND		150	110	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorobutadiene	ND		250	130	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	

Project ID: A12B-HERTEL ENV.
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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Hexachloroethane	ND	150	110	ug/Kg	06/04/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	420	250	120	ug/Kg	06/04/13	DD	SW 8270
Isophorone	ND	150	100	ug/Kg	06/04/13	DD	SW 8270
Naphthalene	ND	250	100	ug/Kg	06/04/13	DD	SW 8270
Nitrobenzene	ND	150	130	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodimethylamine	ND	250	100	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	150	120	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	150	140	ug/Kg	06/04/13	DD	SW 8270
Pentachlorophenol	ND	250	140	ug/Kg	06/04/13	DD	SW 8270
Phenanthrene	250	150	100	ug/Kg	06/04/13	DD	SW 8270
Phenol	ND	250	120	ug/Kg	06/04/13	DD	SW 8270
Pyrene	490	250	120	ug/Kg	06/04/13	DD	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	91			%	06/04/13	DD	19 - 122 %
% 2-Fluorobiphenyl	85			%	06/04/13	DD	30 - 115 %
% 2-Fluorophenol	71			%	06/04/13	DD	25 - 121 %
% Nitrobenzene-d5	79			%	06/04/13	DD	23 - 120 %
% Phenol-d5	79			%	06/04/13	DD	24 - 113 %
% Terphenyl-d14	91			%	06/04/13	DD	18 - 137 %
SVOA Library Search Top 15	Completed				06/04/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 20, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

June 20, 2013

FOR: Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JH	05/29/13	13:58
Location Code:	AFI-ENV	Received by:	LB	06/01/13	9:45
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	A12B-HERTEL-ENV				

Laboratory Data

SDG ID: GBD85796
Phoenix ID: BD85798

Project ID: A12B-HERTEL ENV.
Client ID: SS-3-52913

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Aluminum	3000	N	39	7.8	mg/Kg	06/04/13	EK	SW6010
Antimony	< 2.0	N	2.0	0.78	mg/Kg	06/04/13	EK	SW6010
Arsenic	7.3	*	0.8	0.78	mg/Kg	06/04/13	LK	SW6010
Barium	40.7		0.8	0.16	mg/Kg	06/04/13	LK	SW6010
Beryllium	< 0.31		0.31	0.16	mg/Kg	06/04/13	LK	SW6010
Calcium	2570	N*	3.9	3.6	mg/Kg	06/04/13	LK	SW6010
Cadmium	1.32		0.39	0.16	mg/Kg	06/04/13	LK	SW6010
Chromium	38.7		0.39	0.16	mg/Kg	06/04/13	LK	SW6010
Cobalt	2.72		0.39	0.16	mg/Kg	06/04/13	LK	SW6010
Copper	26.5		0.39	0.31	mg/kg	06/04/13	EK	SW6010
Iron	49200	N	39	39	mg/Kg	06/04/13	LK	SW6010
Lead	43.9		0.8	0.23	mg/Kg	06/04/13	LK	SW6010
Magnesium	1120	N	3.9	0.23	mg/Kg	06/04/13	LK	SW6010
Manganese	1380	N	3.9	1.6	mg/Kg	06/04/13	LK	SW6010
Mercury	< 0.08		0.08	0.05	mg/Kg	06/04/13	RS	SW-7471
Nickel	10.9		0.39	0.16	mg/Kg	06/04/13	LK	SW6010
Potassium	343	N	78	31	mg/Kg	06/04/13	LK	SW6010
Selenium	< 1.6		1.6	1.3	mg/Kg	06/04/13	EK	SW6010
Silver	< 0.39		0.39	0.23	mg/Kg	06/04/13	LK	SW6010
Sodium	70		8	3.4	mg/Kg	06/04/13	LK	SW6010
Thallium	< 1.6		1.6	1.6	mg/Kg	06/04/13	LK	SW6010
Vanadium	32.2		0.4	0.16	mg/Kg	06/04/13	LK	SW6010
Zinc	97.6		0.8	0.39	mg/Kg	06/04/13	LK	SW6010
Percent Solid	77				%	06/03/13	JL	E160.3
Soil Extraction for PCB	Completed					06/03/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed					06/03/13	BB	SW3545
Soil Extraction for SVOA	Completed					06/03/13	JJ/FV	SW3545
Mercury Digestion	Completed					06/04/13	H/H	SW7471

Project ID: A12B-HERTEL ENV.
Client ID: SS-3-52913

Phoenix I.D.: BD85798

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				06/03/13	Z/AG	SW846 - 3050

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
PCB-1016	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1221	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1232	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1242	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1248	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1254	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1260	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1262	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
PCB-1268	ND	43	43	ug/Kg	06/04/13	AW	SW 8082
QA/QC Surrogates							
% DCBP	58			%	06/04/13	AW	30 - 150 %
% TCMX	52			%	06/04/13	AW	30 - 150 %

Pesticides - Soil

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
4,4' -DDD	ND	15	15	ug/Kg	06/04/13	MH	SW8081
4,4' -DDE	ND	15	15	ug/Kg	06/04/13	MH	SW8081
4,4' -DDT	ND	15	15	ug/Kg	06/04/13	MH	SW8081
a-BHC	ND	11	11	ug/Kg	06/04/13	MH	SW8081
a-Chlordane	ND	22	22	ug/Kg	06/04/13	MH	SW8081
Aldrin	ND	11	11	ug/Kg	06/04/13	MH	SW8081
b-BHC	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Chlordane	ND	130	130	ug/Kg	06/04/13	MH	SW8081
d-BHC	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Dieldrin	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Endosulfan I	ND	22	22	ug/Kg	06/04/13	MH	SW8081
Endosulfan II	ND	22	22	ug/Kg	06/04/13	MH	SW8081
Endosulfan sulfate	ND	69	69	ug/Kg	06/04/13	MH	SW8081
Endrin	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Endrin aldehyde	ND	22	22	ug/Kg	06/04/13	MH	SW8081
Endrin ketone	ND	11	11	ug/Kg	06/04/13	MH	SW8081
g-BHC	ND	11	11	ug/Kg	06/04/13	MH	SW8081
g-Chlordane	ND	47	47	ug/Kg	06/04/13	MH	SW8081
Heptachlor	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Heptachlor epoxide	ND	11	11	ug/Kg	06/04/13	MH	SW8081
Methoxychlor	ND	43	43	ug/Kg	06/04/13	MH	SW8081
Toxaphene	ND	210	210	ug/Kg	06/04/13	MH	SW8081
QA/QC Surrogates							
% DCBP	85			%	06/04/13	MH	30 - 150 %
% TCMX	88			%	06/04/13	MH	30 - 150 %

Semivolatiles

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1-Biphenyl	ND	300	130	ug/Kg	06/04/13	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	300	150	ug/Kg	06/04/13	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	300	200	ug/Kg	06/04/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	300	230	ug/Kg	06/04/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	170	140	ug/Kg	06/04/13	DD	SW 8270
2,4-Dichlorophenol	ND	170	150	ug/Kg	06/04/13	DD	SW 8270

Project ID: A12B-HERTEL ENV.
Client ID: SS-3-52913

Phoenix I.D.: BD85798

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
2,4-Dimethylphenol	ND		300	110	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dinitrophenol	ND		300	300	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dinitrotoluene	ND		170	170	ug/Kg	06/04/13	DD	SW 8270	
2,6-Dinitrotoluene	ND		170	130	ug/Kg	06/04/13	DD	SW 8270	
2-Chloronaphthalene	ND		300	120	ug/Kg	06/04/13	DD	SW 8270	
2-Chlorophenol	ND		300	120	ug/Kg	06/04/13	DD	SW 8270	
2-Methylnaphthalene	180	J	300	130	ug/Kg	06/04/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		300	200	ug/Kg	06/04/13	DD	SW 8270	
2-Nitroaniline	ND		2100	430	ug/Kg	06/04/13	DD	SW 8270	
2-Nitrophenol	ND		300	270	ug/Kg	06/04/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND		300	170	ug/Kg	06/04/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND		170	170	ug/Kg	06/04/13	DD	SW 8270	
3-Nitroaniline	ND		2100	930	ug/Kg	06/04/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		300	300	ug/Kg	06/04/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		300	130	ug/Kg	06/04/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND		300	150	ug/Kg	06/04/13	DD	SW 8270	
4-Chloroaniline	ND		850	200	ug/Kg	06/04/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		300	140	ug/Kg	06/04/13	DD	SW 8270	
4-Nitroaniline	ND		2100	140	ug/Kg	06/04/13	DD	SW 8270	
4-Nitrophenol	ND		2100	190	ug/Kg	06/04/13	DD	SW 8270	
Acenaphthene	260	J	300	130	ug/Kg	06/04/13	DD	SW 8270	
Acenaphthylene	ND		170	120	ug/Kg	06/04/13	DD	SW 8270	
Acetophenone	ND		300	130	ug/Kg	06/04/13	DD	SW 8270	
Anthracene	440		300	140	ug/Kg	06/04/13	DD	SW 8270	
Atrazine	ND		170	170	ug/Kg	06/04/13	DD	SW 8270	
Benz(a)anthracene	2700		300	140	ug/Kg	06/04/13	DD	SW 8270	
Benzaldehyde	ND		300	130	ug/Kg	06/04/13	DD	SW 8270	
Benzo(a)pyrene	3300		170	140	ug/Kg	06/04/13	DD	SW 8270	
Benzo(b)fluoranthene	5100		300	150	ug/Kg	06/04/13	DD	SW 8270	
Benzo(ghi)perylene	2000		300	140	ug/Kg	06/04/13	DD	SW 8270	
Benzo(k)fluoranthene	1400		300	140	ug/Kg	06/04/13	DD	SW 8270	
Benzyl butyl phthalate	ND		300	110	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND		300	120	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND		170	110	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND		300	120	ug/Kg	06/04/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND		300	120	ug/Kg	06/04/13	DD	SW 8270	
Caprolactam	ND		300	300	ug/Kg	06/04/13	DD	SW 8270	
Carbazole	550	J	2100	320	ug/Kg	06/04/13	DD	SW 8270	
Chrysene	3000		300	140	ug/Kg	06/04/13	DD	SW 8270	
Dibenz(a,h)anthracene	1000		170	140	ug/Kg	06/04/13	DD	SW 8270	
Dibenzofuran	160	J	300	120	ug/Kg	06/04/13	DD	SW 8270	
Diethyl phthalate	340		300	130	ug/Kg	06/04/13	DD	SW 8270	
Dimethylphthalate	ND		300	130	ug/Kg	06/04/13	DD	SW 8270	
Di-n-butylphthalate	ND		300	110	ug/Kg	06/04/13	DD	SW 8270	
Di-n-octylphthalate	ND		300	110	ug/Kg	06/04/13	DD	SW 8270	
Fluoranthene	3700		300	140	ug/Kg	06/04/13	DD	SW 8270	
Fluorene	200	J	300	140	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorobenzene	ND		170	120	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorobutadiene	ND		300	150	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND		300	130	ug/Kg	06/04/13	DD	SW 8270	

Project ID: A12B-HERTEL ENV.
Client ID: SS-3-52913

Phoenix I.D.: BD85798

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Hexachloroethane	ND		170	130	ug/Kg	06/04/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	2000		300	140	ug/Kg	06/04/13	DD	SW 8270
Isophorone	ND		170	120	ug/Kg	06/04/13	DD	SW 8270
Naphthalene	230	J	300	120	ug/Kg	06/04/13	DD	SW 8270
Nitrobenzene	ND		170	150	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodimethylamine	ND		300	120	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND		170	140	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodiphenylamine	ND		170	160	ug/Kg	06/04/13	DD	SW 8270
Pentachlorophenol	ND		300	160	ug/Kg	06/04/13	DD	SW 8270
Phenanthrene	2400		170	120	ug/Kg	06/04/13	DD	SW 8270
Phenol	ND		300	140	ug/Kg	06/04/13	DD	SW 8270
Pyrene	3200		300	150	ug/Kg	06/04/13	DD	SW 8270
QA/QC Surrogates								
% 2,4,6-Tribromophenol	93				%	06/04/13	DD	19 - 122 %
% 2-Fluorobiphenyl	87				%	06/04/13	DD	30 - 115 %
% 2-Fluorophenol	75				%	06/04/13	DD	25 - 121 %
% Nitrobenzene-d5	80				%	06/04/13	DD	23 - 120 %
% Phenol-d5	80				%	06/04/13	DD	24 - 113 %
% Terphenyl-d14	88				%	06/04/13	DD	18 - 137 %
SVOA Library Search Top 15	Completed					06/04/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 20, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

NY # 11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 20, 2013

FOR: Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JH	05/29/13	14:06
Location Code:	AFI-ENV	Received by:	LB	06/01/13	9:45
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	A12B-HERTEL-ENV				

Laboratory Data

SDG ID: GBD85796
Phoenix ID: BD85799

Project ID: A12B-HERTEL ENV.
Client ID: DUP-2-52913

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Aluminum	20000	N	320	65	mg/Kg	06/04/13	EK	SW6010
Antimony	< 1.6	N	1.6	0.65	mg/Kg	06/04/13	EK	SW6010
Arsenic	4.4	*	0.6	0.65	mg/Kg	06/04/13	LK	SW6010
Barium	244		0.6	0.13	mg/Kg	06/04/13	LK	SW6010
Beryllium	0.96		0.26	0.13	mg/Kg	06/04/13	LK	SW6010
Calcium	88800	N*	32	30	mg/Kg	06/04/13	LK	SW6010
Cadmium	3.01		0.32	0.13	mg/Kg	06/04/13	LK	SW6010
Chromium	101		0.32	0.13	mg/Kg	06/04/13	LK	SW6010
Cobalt	0.46		0.32	0.13	mg/Kg	06/04/13	LK	SW6010
Copper	390		32	26	mg/kg	06/04/13	EK	SW6010
Iron	31100	N	32	32	mg/Kg	06/04/13	LK	SW6010
Lead	118		0.6	0.19	mg/Kg	06/04/13	LK	SW6010
Magnesium	17000	N	32	1.9	mg/Kg	06/04/13	LK	SW6010
Manganese	9110	N	32	13	mg/Kg	06/04/13	EK	SW6010
Mercury	0.08		0.06	0.04	mg/Kg	06/04/13	RS	SW-7471
Nickel	19.2		0.32	0.13	mg/Kg	06/04/13	LK	SW6010
Potassium	2080	N	65	25	mg/Kg	06/04/13	LK	SW6010
Selenium	< 1.3		1.3	1.1	mg/Kg	06/04/13	LK	SW6010
Silver	< 0.32		0.32	0.19	mg/Kg	06/04/13	EK	SW6010
Sodium	800	N	6	2.8	mg/Kg	06/04/13	EK	SW6010
Thallium	< 1.3		1.3	1.3	mg/Kg	06/04/13	LK	SW6010
Vanadium	41.2		0.3	0.13	mg/Kg	06/04/13	LK	SW6010
Zinc	308		6.5	3.2	mg/Kg	06/04/13	LK	SW6010
Percent Solid	91				%	06/03/13	JL	E160.3
Soil Extraction for PCB	Completed					06/03/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed					06/03/13	BB	SW3545
Soil Extraction for SVOA	Completed					06/03/13	JJ/FV	SW3545
Mercury Digestion	Completed					06/04/13	H/H	SW7471

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				06/03/13	Z/AG	SW846 - 3050

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
PCB-1016	ND	360	360	ug/Kg	06/05/13	AW	SW 8082
PCB-1221	ND	360	360	ug/Kg	06/05/13	AW	SW 8082
PCB-1232	ND	360	360	ug/Kg	06/05/13	AW	SW 8082
PCB-1242	ND	360	360	ug/Kg	06/05/13	AW	SW 8082
PCB-1248	ND	360	360	ug/Kg	06/05/13	AW	SW 8082
PCB-1254	ND	360	360	ug/Kg	06/05/13	AW	SW 8082
PCB-1260	3400	360	360	ug/Kg	06/05/13	AW	SW 8082
PCB-1262	ND	360	360	ug/Kg	06/05/13	AW	SW 8082
PCB-1268	ND	360	360	ug/Kg	06/05/13	AW	SW 8082
QA/QC Surrogates							
% DCBP	112			%	06/05/13	AW	30 - 150 %
% TCMX	98			%	06/05/13	AW	30 - 150 %

Pesticides - Soil

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
4,4' -DDD	ND	13	13	ug/Kg	06/04/13	MH	SW8081
4,4' -DDE	ND	13	13	ug/Kg	06/04/13	MH	SW8081
4,4' -DDT	ND	13	13	ug/Kg	06/04/13	MH	SW8081
a-BHC	ND	9.1	9.1	ug/Kg	06/04/13	MH	SW8081
a-Chlordane	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Aldrin	ND	9.1	9.1	ug/Kg	06/04/13	MH	SW8081
b-BHC	ND	9.1	9.1	ug/Kg	06/04/13	MH	SW8081
Chlordane	ND	110	110	ug/Kg	06/04/13	MH	SW8081
d-BHC	ND	9.1	9.1	ug/Kg	06/04/13	MH	SW8081
Dieldrin	ND	9.1	9.1	ug/Kg	06/04/13	MH	SW8081
Endosulfan I	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Endosulfan II	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Endosulfan sulfate	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Endrin	ND	9.1	9.1	ug/Kg	06/04/13	MH	SW8081
Endrin aldehyde	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Endrin ketone	ND	9.1	9.1	ug/Kg	06/04/13	MH	SW8081
g-BHC	ND	9.1	9.1	ug/Kg	06/04/13	MH	SW8081
g-Chlordane	ND	18	18	ug/Kg	06/04/13	MH	SW8081
Heptachlor	ND	9.1	9.1	ug/Kg	06/04/13	MH	SW8081
Heptachlor epoxide	ND	9.1	9.1	ug/Kg	06/04/13	MH	SW8081
Methoxychlor	ND	36	36	ug/Kg	06/04/13	MH	SW8081
Toxaphene	ND	180	180	ug/Kg	06/04/13	MH	SW8081
QA/QC Surrogates							
% DCBP	86			%	06/04/13	MH	30 - 150 %
% TCMX	83			%	06/04/13	MH	30 - 150 %

Semivolatiles

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1-Biphenyl	ND	250	110	ug/Kg	06/04/13	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	06/04/13	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	250	170	ug/Kg	06/04/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	06/04/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	140	120	ug/Kg	06/04/13	DD	SW 8270
2,4-Dichlorophenol	ND	140	130	ug/Kg	06/04/13	DD	SW 8270

Project ID: A12B-HERTEL ENV.
Client ID: DUP-2-52913

Phoenix I.D.: BD85799

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
2,4-Dimethylphenol	ND		250	90	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dinitrophenol	ND		250	250	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dinitrotoluene	ND		140	140	ug/Kg	06/04/13	DD	SW 8270	
2,6-Dinitrotoluene	ND		140	110	ug/Kg	06/04/13	DD	SW 8270	
2-Chloronaphthalene	ND		250	100	ug/Kg	06/04/13	DD	SW 8270	
2-Chlorophenol	ND		250	100	ug/Kg	06/04/13	DD	SW 8270	
2-Methylnaphthalene	120	J	250	110	ug/Kg	06/04/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		250	170	ug/Kg	06/04/13	DD	SW 8270	
2-Nitroaniline	ND		1800	370	ug/Kg	06/04/13	DD	SW 8270	
2-Nitrophenol	ND		250	230	ug/Kg	06/04/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND		250	140	ug/Kg	06/04/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND		140	140	ug/Kg	06/04/13	DD	SW 8270	
3-Nitroaniline	ND		1800	790	ug/Kg	06/04/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		250	250	ug/Kg	06/04/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND		250	130	ug/Kg	06/04/13	DD	SW 8270	
4-Chloroaniline	ND		720	170	ug/Kg	06/04/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		250	120	ug/Kg	06/04/13	DD	SW 8270	
4-Nitroaniline	ND		1800	120	ug/Kg	06/04/13	DD	SW 8270	
4-Nitrophenol	ND		1800	160	ug/Kg	06/04/13	DD	SW 8270	
Acenaphthene	130	J	250	110	ug/Kg	06/04/13	DD	SW 8270	
Acenaphthylene	ND		140	100	ug/Kg	06/04/13	DD	SW 8270	
Acetophenone	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
Anthracene	240	J	250	120	ug/Kg	06/04/13	DD	SW 8270	
Atrazine	ND		140	140	ug/Kg	06/04/13	DD	SW 8270	
Benz(a)anthracene	1100		250	120	ug/Kg	06/04/13	DD	SW 8270	
Benzaldehyde	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
Benzo(a)pyrene	1200		140	120	ug/Kg	06/04/13	DD	SW 8270	
Benzo(b)fluoranthene	2000		250	120	ug/Kg	06/04/13	DD	SW 8270	
Benzo(ghi)perylene	430		250	120	ug/Kg	06/04/13	DD	SW 8270	
Benzo(k)fluoranthene	660		250	120	ug/Kg	06/04/13	DD	SW 8270	
Benzyl butyl phthalate	ND		250	93	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND		250	100	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND		140	98	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND		250	100	ug/Kg	06/04/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	330		250	100	ug/Kg	06/04/13	DD	SW 8270	
Caprolactam	ND		250	250	ug/Kg	06/04/13	DD	SW 8270	
Carbazole	320	J	1800	270	ug/Kg	06/04/13	DD	SW 8270	
Chrysene	1400		250	120	ug/Kg	06/04/13	DD	SW 8270	
Dibenz(a,h)anthracene	190		140	120	ug/Kg	06/04/13	DD	SW 8270	
Dibenzofuran	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
Diethyl phthalate	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
Dimethylphthalate	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	
Di-n-butylphthalate	ND		250	96	ug/Kg	06/04/13	DD	SW 8270	
Di-n-octylphthalate	ND		250	93	ug/Kg	06/04/13	DD	SW 8270	
Fluoranthene	2100		250	120	ug/Kg	06/04/13	DD	SW 8270	
Fluorene	ND		250	120	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorobenzene	ND		140	110	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorobutadiene	ND		250	130	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND		250	110	ug/Kg	06/04/13	DD	SW 8270	

Project ID: A12B-HERTEL ENV. Phoenix I.D.: BD85799
Client ID: DUP-2-52913

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Hexachloroethane	ND		140	110	ug/Kg	06/04/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	500		250	120	ug/Kg	06/04/13	DD	SW 8270
Isophorone	ND		140	100	ug/Kg	06/04/13	DD	SW 8270
Naphthalene	130	J	250	100	ug/Kg	06/04/13	DD	SW 8270
Nitrobenzene	ND		140	130	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodimethylamine	ND		250	100	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND		140	120	ug/Kg	06/04/13	DD	SW 8270
N-Nitrosodiphenylamine	ND		140	140	ug/Kg	06/04/13	DD	SW 8270
Pentachlorophenol	ND		250	140	ug/Kg	06/04/13	DD	SW 8270
Phenanthrene	1300		140	100	ug/Kg	06/04/13	DD	SW 8270
Phenol	ND		250	120	ug/Kg	06/04/13	DD	SW 8270
Pyrene	1700		250	120	ug/Kg	06/04/13	DD	SW 8270
QA/QC Surrogates								
% 2,4,6-Tribromophenol	85				%	06/04/13	DD	19 - 122 %
% 2-Fluorobiphenyl	80				%	06/04/13	DD	30 - 115 %
% 2-Fluorophenol	65				%	06/04/13	DD	25 - 121 %
% Nitrobenzene-d5	71				%	06/04/13	DD	23 - 120 %
% Phenol-d5	76				%	06/04/13	DD	24 - 113 %
% Terphenyl-d14	86				%	06/04/13	DD	18 - 137 %
SVOA Library Search Top 15	Completed					06/04/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 20, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Analysis Report

June 20, 2013

FOR: Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JH	05/31/13	9:30
Location Code:	AFI-ENV	Received by:	LB	06/01/13	9:45
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	A12B-HERTEL-ENV				

Laboratory Data

SDG ID: GBD85796
Phoenix ID: BD85800

Project ID: A12B-HERTEL ENV.
Client ID: MW-2-53113

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Aluminum	14900	N	39	7.7	mg/Kg	06/04/13	EK	SW6010
Antimony	< 1.9	N	1.9	0.77	mg/Kg	06/04/13	EK	SW6010
Arsenic	4.0	*	0.8	0.77	mg/Kg	06/04/13	LK	SW6010
Barium	95.9		0.8	0.15	mg/Kg	06/04/13	LK	SW6010
Beryllium	0.57		0.31	0.15	mg/Kg	06/04/13	LK	SW6010
Calcium	12600	N*	39	36	mg/Kg	06/04/13	LK	SW6010
Cadmium	0.92		0.39	0.15	mg/Kg	06/04/13	LK	SW6010
Chromium	18.7		0.39	0.15	mg/Kg	06/04/13	LK	SW6010
Cobalt	9.68		0.39	0.15	mg/Kg	06/04/13	LK	SW6010
Copper	26.6		0.39	0.31	mg/kg	06/04/13	EK	SW6010
Iron	25900	N	39	39	mg/Kg	06/04/13	LK	SW6010
Lead	15.7		0.8	0.23	mg/Kg	06/04/13	LK	SW6010
Magnesium	7150	N	39	2.3	mg/Kg	06/04/13	LK	SW6010
Manganese	300	N	3.9	1.5	mg/Kg	06/04/13	LK	SW6010
Mercury	< 0.10		0.10	0.06	mg/Kg	06/04/13	RS	SW-7471
Nickel	21.5		0.39	0.15	mg/Kg	06/04/13	LK	SW6010
Potassium	1960	N	77	30	mg/Kg	06/04/13	LK	SW6010
Selenium	< 1.5		1.5	1.3	mg/Kg	06/04/13	EK	SW6010
Silver	< 0.39		0.39	0.23	mg/Kg	06/04/13	LK	SW6010
Sodium	141		8	3.3	mg/Kg	06/04/13	LK	SW6010
Thallium	< 1.5		1.5	1.5	mg/Kg	06/04/13	LK	SW6010
Vanadium	32.1		0.4	0.15	mg/Kg	06/04/13	LK	SW6010
Zinc	88.7		0.8	0.39	mg/Kg	06/04/13	LK	SW6010
Percent Solid	83				%	06/03/13	JL	E160.3
Total Cyanide	< 0.55		0.55	0.27	mg/Kg	06/04/13	O/GD	SW 9010/9012
Soil Extraction for PCB	Completed					06/03/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed					06/03/13	BB	SW3545
Soil Extraction for SVOA	Completed					06/03/13	JJ/FV	SW3545

Project ID: A12B-HERTEL ENV.
Client ID: MW-2-53113

Phoenix I.D.: BD85800

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Mercury Digestion	Completed					06/04/13	H/H	SW7471	
Total Metals Digest	Completed					06/03/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls									
PCB-1016	ND		39	39	ug/Kg	06/04/13	AW	SW 8082	
PCB-1221	ND		39	39	ug/Kg	06/04/13	AW	SW 8082	
PCB-1232	ND		39	39	ug/Kg	06/04/13	AW	SW 8082	
PCB-1242	ND		39	39	ug/Kg	06/04/13	AW	SW 8082	
PCB-1248	ND		39	39	ug/Kg	06/04/13	AW	SW 8082	
PCB-1254	ND		39	39	ug/Kg	06/04/13	AW	SW 8082	
PCB-1260	ND		39	39	ug/Kg	06/04/13	AW	SW 8082	
PCB-1262	ND		39	39	ug/Kg	06/04/13	AW	SW 8082	
PCB-1268	ND		39	39	ug/Kg	06/04/13	AW	SW 8082	
QA/QC Surrogates									
% DCBP	66				%	06/04/13	AW	30 - 150 %	
% TCMX	54				%	06/04/13	AW	30 - 150 %	
1,4-dioxane									
1,4-dioxane	ND		130	130	ug/kg	06/06/13	H/J	SW8260B	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	97				%	06/06/13	H/J	70 - 121 %	
% Bromofluorobenzene	83				%	06/06/13	H/J	59 - 113 %	
% Toluene-d8	94				%	06/06/13	H/J	84 - 138 %	
Volatiles									
1,1,1-Trichloroethane	ND		6.3	1.3	ug/Kg	06/06/13	H/J	SW8260	
1,1,2,2-Tetrachloroethane	ND		6.3	0.89	ug/Kg	06/06/13	H/J	SW8260	
1,1,2-Trichloroethane	ND		6.3	0.61	ug/Kg	06/06/13	H/J	SW8260	
1,1-Dichloroethane	ND		6.3	1.2	ug/Kg	06/06/13	H/J	SW8260	
1,1-Dichloroethene	ND		6.3	1.4	ug/Kg	06/06/13	H/J	SW8260	
1,2,3-Trichlorobenzene	ND		6.3	0.84	ug/Kg	06/06/13	H/J	SW8260	B
1,2,4-Trichlorobenzene	ND		6.3	0.74	ug/Kg	06/06/13	H/J	SW8260	B
1,2-Dibromo-3-chloropropane	ND		6.3	1.7	ug/Kg	06/06/13	H/J	SW8260	
1,2-Dibromoethane	ND		6.3	1.7	ug/Kg	06/06/13	H/J	SW8260	
1,2-Dichlorobenzene	ND		6.3	0.69	ug/Kg	06/06/13	H/J	SW8260	
1,2-Dichloroethane	ND		6.3	0.55	ug/Kg	06/06/13	H/J	SW8260	
1,2-Dichloropropane	ND		6.3	0.89	ug/Kg	06/06/13	H/J	SW8260	
1,3-Dichlorobenzene	ND		6.3	0.93	ug/Kg	06/06/13	H/J	SW8260	
1,4-Dichlorobenzene	ND		6.3	0.99	ug/Kg	06/06/13	H/J	SW8260	
2-Hexanone	ND		31	2.8	ug/Kg	06/06/13	H/J	SW8260	
4-Methyl-2-pentanone	ND		31	1.5	ug/Kg	06/06/13	H/J	SW8260	
Acetone	150	S	63	6.2	ug/Kg	06/06/13	H/J	SW8260	
Benzene	ND		6.3	1.2	ug/Kg	06/06/13	H/J	SW8260	
Bromochloromethane	ND		6.3	0.91	ug/Kg	06/06/13	H/J	SW8260	
Bromodichloromethane	ND		6.3	0.78	ug/Kg	06/06/13	H/J	SW8260	
Bromoform	ND		6.3	0.88	ug/Kg	06/06/13	H/J	SW8260	
Bromomethane	ND		6.3	4.8	ug/Kg	06/06/13	H/J	SW8260	
Carbon Disulfide	6.4		6.3	1.0	ug/Kg	06/06/13	H/J	SW8260	
Carbon tetrachloride	ND		6.3	0.73	ug/Kg	06/06/13	H/J	SW8260	
Chlorobenzene	ND		6.3	0.93	ug/Kg	06/06/13	H/J	SW8260	

Project ID: A12B-HERTEL ENV.
Client ID: MW-2-53113

Phoenix I.D.: BD85800

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Chloroethane	ND		6.3	1.5	ug/Kg	06/06/13	H/J	SW8260	
Chloroform	ND		6.3	1.1	ug/Kg	06/06/13	H/J	SW8260	
Chloromethane	ND		6.3	3.3	ug/Kg	06/06/13	H/J	SW8260	
cis-1,2-Dichloroethene	ND		6.3	1.4	ug/Kg	06/06/13	H/J	SW8260	
cis-1,3-Dichloropropene	ND		6.3	0.68	ug/Kg	06/06/13	H/J	SW8260	1
Cyclohexane	ND		6.3	6.3	ug/Kg	06/06/13	H/J	SW8260	
Dibromochloromethane	ND		6.3	0.70	ug/Kg	06/06/13	H/J	SW8260	
Dichlorodifluoromethane	ND		6.3	1.7	ug/Kg	06/06/13	H/J	SW8260	
Ethylbenzene	ND		6.3	1.1	ug/Kg	06/06/13	H/J	SW8260	
Isopropylbenzene	ND		6.3	1.2	ug/Kg	06/06/13	H/J	SW8260	
m&p-Xylene	2.9	J	6.3	2.5	ug/Kg	06/06/13	H/J	SW8260	
Methyl ethyl ketone	36	J	38	5.4	ug/Kg	06/06/13	H/J	SW8260	
Methyl t-butyl ether (MTBE)	ND		13	1.7	ug/Kg	06/06/13	H/J	SW8260	
Methylacetate	ND		6.3	6.3	ug/Kg	06/06/13	H/J	SW8260	
Methylcyclohexane	ND		6.3	6.3	ug/Kg	06/06/13	H/J	SW8260	
Methylene chloride	2.0	JS	6.3	1.0	ug/Kg	06/06/13	H/J	SW8260	
o-Xylene	ND		6.3	2.4	ug/Kg	06/06/13	H/J	SW8260	
Styrene	ND		6.3	1.8	ug/Kg	06/06/13	H/J	SW8260	
Tetrachloroethene	ND		6.3	1.3	ug/Kg	06/06/13	H/J	SW8260	
Toluene	5.1	J	6.3	0.99	ug/Kg	06/06/13	H/J	SW8260	
Total Xylenes	2.9		6.3	2.5	ug/Kg	06/06/13	H/J	SW8260	
trans-1,2-Dichloroethene	ND		6.3	1.3	ug/Kg	06/06/13	H/J	SW8260	
trans-1,3-Dichloropropene	ND		6.3	1.3	ug/Kg	06/06/13	H/J	SW8260	
Trichloroethene	ND		6.3	1.3	ug/Kg	06/06/13	H/J	SW8260	
Trichlorofluoromethane	ND		6.3	1.4	ug/Kg	06/06/13	H/J	SW8260	
Trichlorotrifluoroethane	ND		6.3	0.98	ug/Kg	06/06/13	H/J	SW8260	
Vinyl chloride	ND		6.3	2.0	ug/Kg	06/06/13	H/J	SW8260	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	97				%	06/06/13	H/J	70 - 121 %	
% Bromofluorobenzene	83				%	06/06/13	H/J	59 - 113 %	
% Dibromofluoromethane	98				%	06/06/13	H/J	70 - 130 %	
% Toluene-d8	94				%	06/06/13	H/J	84 - 138 %	
Volatile Library Search Top 10	Completed					06/12/13	H/J		
Semivolatiles									
1,1-Biphenyl	ND		280	120	ug/Kg	06/04/13	DD	SW 8270	
1,2,4,5-Tetrachlorobenzene	ND		280	140	ug/Kg	06/04/13	DD	SW 8270	
2,3,4,6-tetrachlorophenol	ND		280	190	ug/Kg	06/04/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND		280	220	ug/Kg	06/04/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND		160	130	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dichlorophenol	ND		160	140	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dimethylphenol	ND		280	99	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dinitrophenol	ND		280	280	ug/Kg	06/04/13	DD	SW 8270	
2,4-Dinitrotoluene	ND		160	160	ug/Kg	06/04/13	DD	SW 8270	
2,6-Dinitrotoluene	ND		160	130	ug/Kg	06/04/13	DD	SW 8270	
2-Chloronaphthalene	ND		280	110	ug/Kg	06/04/13	DD	SW 8270	
2-Chlorophenol	ND		280	110	ug/Kg	06/04/13	DD	SW 8270	
2-Methylnaphthalene	ND		280	120	ug/Kg	06/04/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		280	190	ug/Kg	06/04/13	DD	SW 8270	

Project ID: A12B-HERTEL ENV.
Client ID: MW-2-53113

Phoenix I.D.: BD85800

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
2-Nitroaniline	ND		2000	400	ug/Kg	06/04/13	DD	SW 8270	
2-Nitrophenol	ND		280	250	ug/Kg	06/04/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND		280	160	ug/Kg	06/04/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND		160	160	ug/Kg	06/04/13	DD	SW 8270	
3-Nitroaniline	ND		2000	870	ug/Kg	06/04/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		280	280	ug/Kg	06/04/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		280	120	ug/Kg	06/04/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND		280	140	ug/Kg	06/04/13	DD	SW 8270	
4-Chloroaniline	ND		800	190	ug/Kg	06/04/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		280	130	ug/Kg	06/04/13	DD	SW 8270	
4-Nitroaniline	ND		2000	130	ug/Kg	06/04/13	DD	SW 8270	
4-Nitrophenol	ND		2000	180	ug/Kg	06/04/13	DD	SW 8270	
Acenaphthene	ND		280	120	ug/Kg	06/04/13	DD	SW 8270	
Acenaphthylene	ND		160	110	ug/Kg	06/04/13	DD	SW 8270	
Acetophenone	ND		280	120	ug/Kg	06/04/13	DD	SW 8270	
Anthracene	ND		280	130	ug/Kg	06/04/13	DD	SW 8270	
Atrazine	ND		160	160	ug/Kg	06/04/13	DD	SW 8270	
Benz(a)anthracene	350		280	130	ug/Kg	06/04/13	DD	SW 8270	
Benzaldehyde	ND		280	120	ug/Kg	06/04/13	DD	SW 8270	
Benzo(a)pyrene	430		160	130	ug/Kg	06/04/13	DD	SW 8270	
Benzo(b)fluoranthene	710		280	140	ug/Kg	06/04/13	DD	SW 8270	
Benzo(ghi)perylene	220	J	280	130	ug/Kg	06/04/13	DD	SW 8270	
Benzo(k)fluoranthene	280	J	280	130	ug/Kg	06/04/13	DD	SW 8270	
Benzyl butyl phthalate	ND		280	100	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND		280	110	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND		160	110	ug/Kg	06/04/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND		280	110	ug/Kg	06/04/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	540		280	110	ug/Kg	06/04/13	DD	SW 8270	
Caprolactam	ND		280	280	ug/Kg	06/04/13	DD	SW 8270	
Carbazole	ND		2000	300	ug/Kg	06/04/13	DD	SW 8270	
Chrysene	430		280	130	ug/Kg	06/04/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND		160	130	ug/Kg	06/04/13	DD	SW 8270	
Dibenzofuran	ND		280	120	ug/Kg	06/04/13	DD	SW 8270	
Diethyl phthalate	ND		280	130	ug/Kg	06/04/13	DD	SW 8270	
Dimethylphthalate	ND		280	120	ug/Kg	06/04/13	DD	SW 8270	
Di-n-butylphthalate	ND		280	110	ug/Kg	06/04/13	DD	SW 8270	
Di-n-octylphthalate	ND		280	100	ug/Kg	06/04/13	DD	SW 8270	
Fluoranthene	710		280	130	ug/Kg	06/04/13	DD	SW 8270	
Fluorene	ND		280	130	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorobenzene	ND		160	120	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorobutadiene	ND		280	140	ug/Kg	06/04/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND		280	120	ug/Kg	06/04/13	DD	SW 8270	
Hexachloroethane	ND		160	120	ug/Kg	06/04/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	230	J	280	130	ug/Kg	06/04/13	DD	SW 8270	
Isophorone	ND		160	110	ug/Kg	06/04/13	DD	SW 8270	
Naphthalene	ND		280	110	ug/Kg	06/04/13	DD	SW 8270	
Nitrobenzene	ND		160	140	ug/Kg	06/04/13	DD	SW 8270	
N-Nitrosodimethylamine	ND		280	110	ug/Kg	06/04/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND		160	130	ug/Kg	06/04/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND		160	150	ug/Kg	06/04/13	DD	SW 8270	

Project ID: A12B-HERTEL ENV.
Client ID: MW-2-53113

Phoenix I.D.: BD85800

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Pentachlorophenol	ND	280	150	ug/Kg	06/04/13	DD	SW 8270
Phenanthrene	500	160	110	ug/Kg	06/04/13	DD	SW 8270
Phenol	ND	280	130	ug/Kg	06/04/13	DD	SW 8270
Pyrene	570	280	140	ug/Kg	06/04/13	DD	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	81			%	06/04/13	DD	19 - 122 %
% 2-Fluorobiphenyl	78			%	06/04/13	DD	30 - 115 %
% 2-Fluorophenol	62			%	06/04/13	DD	25 - 121 %
% Nitrobenzene-d5	63			%	06/04/13	DD	23 - 120 %
% Phenol-d5	71			%	06/04/13	DD	24 - 113 %
% Terphenyl-d14	88			%	06/04/13	DD	18 - 137 %
SVOA Library Search Top 15	Completed				06/04/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 20, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Thursday, June 20, 2013

Sample Criteria Exceedences Report

GBD85796 - AFI-ENV

Requested Criteria: 375RRS
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD85796	$DP8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1600	310	1000	1000	ug/Kg
BD85796	$DP8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	3300	310	1000	1000	ug/Kg
BD85796	$DP8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2200	180	1000	1000	ug/Kg
BD85796	$DP8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	310	500	500	ug/Kg
BD85796	$DP8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	410	180	330	330	ug/Kg
BD85797	MN-SM	Manganese	NY / 375-6.8 Metals / Residential Restricted	32000	360	2000	2000	mg/Kg
BD85798	$DP8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2700	300	1000	1000	ug/Kg
BD85798	$DP8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	5100	300	1000	1000	ug/Kg
BD85798	$DP8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3300	170	1000	1000	ug/Kg
BD85798	$DP8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2000	300	500	500	ug/Kg
BD85798	$DP8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1000	170	330	330	ug/Kg
BD85799	$DP8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	250	1000	1000	ug/Kg
BD85799	$DP8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2000	250	1000	1000	ug/Kg
BD85799	$DP8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	140	1000	1000	ug/Kg
BD85799	CU-SM	Copper	NY / 375-6.8 Metals / Residential Restricted	390	32	270	270	mg/kg
BD85799	MN-SM	Manganese	NY / 375-6.8 Metals / Residential Restricted	9110	32	2000	2000	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL

June 20, 2013

SDG I.D.: GBD85796

A12B-HERTEL ENV. AFI Environmental

Conformance / Non-Conformance Summary

Semivolatile Organic Compounds

The samples were analyzed for a semivolatile list of compounds by GC/MS full scan.

Form 2: All sample and associated QC sample surrogate recoveries met method criteria.

Form 3: Laboratory Criteria for the Lab Control Sample/Lab Control Sample Duplicate (LCS/LCSD) and Matrix Spike/Matrix Spike Duplicate (MS/MSD): 90% of compounds are within 30-130% and RPDs less than 30% (these limits are reflected on the form Ills). All QC associated with this sample set met ASP criteria. Compounds with recoveries and/or RPDs outside laboratory control limits are flagged with an asterisk on form III.

Form 5: All DFTPP Tunes associated with this sample set met method criteria and sample analysis was performed within 12 hours of their injection.

Form 6: Initial calibration met ASP criteria for all target compounds (RSD and response factors) on CHEM06 on 06/03/13, with the following exceptions: The minimum RRF was not met for 2-Nitrophenol and Hexachlorobenzene.

Form 7: The continuing calibration standard on 0603_13A.D on CHEM06 met ASP criteria for all target compounds, with the following exceptions: The minimum RRF was not met for 2-Nitrophenol and Hexachlorobenzene. The closing continuing calibration standard on 0603_31A.D on CHEM06 met ASP criteria for all target compounds., with the following exceptions: The maximum %D was exceeded for Hexachloroethane, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 2-Nitroaniline and 4,6-Dinitro-2-methylphenol. The continuing calibration standard on 0604_02.D on CHEM06 met ASP criteria for all target compounds, with the following exceptions: The minimum RRF was not met for 2-Nitrophenol and Hexachlorobenzene. The closing continuing calibration standard on 0603_13.D on CHEM06 met ASP criteria for all target compounds., with the following exceptions: The minimum RRF was not met for 2,4-Dinitrophenol. The maximum %D was exceeded for Hexachloroethane, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 2-Nitroaniline and 4,6-Dinitro-2-methylphenol.

Form 8: All internal standard areas and retention times met method criteria for all samples and associated QC samples.

Observations: The client requested a shorter list of compounds than that provided in the raw data.
All compounds striked through on quantitation report are less than MDL for that compound.
No other observations are noted.

____
Jonathon Carlson Date
Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

NY ANALYTICAL SERVICES PROTOCOL

June 20, 2013

SDG I.D.: GBD85796

A12B-HERTEL ENV. AFI Environmental

Conformance / Non-Conformance Summary

Volatile Organic Compounds:

Form 2: All surrogate recoveries met method criteria.

Form 3: Laboratory Criteria for the Lab Control Sample/Lab Control Sample Duplicate (LCS/LCSD): 90% of compounds are within 70-130% for LCS/LCSD and RPDs less than 30% (these limits are reflected on the form IIIs).
All QC associated with this sample set met ASP criteria.
Compounds with recoveries and/or RPDs outside laboratory control limits are flagged with an asterisk on form III.

Form 5: All BFB Tunes associated with this sample set met method criteria and sample analysis was performed within 12 hours of their injection.

Form 6: The initial calibration analyzed on CHEM18 on 06/05/2013 met ASP criteria for all target compounds, with the following exceptions: The minimum RRF was not met for Trichloroethene and Bromodichloromethane.

Form 7: The continuing calibration standard 0606M02.D on CHEM18 met ASP criteria for all target compounds, with the following exception: The minimum RRF was not met for Trichloroethene. The closing continuing calibration standard 0606M37.D on CHEM18 met ASP criteria for all target compounds.

Form 8: All internal standard areas and retention times met method criteria.

Observations: The client requested a shorter list of compounds than that provided in the raw data.
All compounds striked through on quantitation report are less than MDL for that compound.

No other observations are noted.

____

Jonathon Carlson Date
Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

NY Temperature Narration

June 20, 2013

SDG I.D.: GBD85796

The samples in this delivery group were received at 7°C.
(Note acceptance criteria is above freezing up to 6°C)

PHOENIX
Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 7° Pg 1 of 1
Cooler w/ cubes

Data Delivery:
☐ Fax #:
☑ Email:

Customer: AFI Environmental
Address: Po Box 4049
Niagara Falls, NY 14304

Project: A12B - Hertel - ENV
Report to: Elby Benton CaptBillsDiving@RoadRunner.com
Invoice to: 1100 Shetter Ave Suite 202
Jacksonville FL 32250

Project P.O: A12B-Hertel - ENV
Phone #: 716 283 7645
Fax #: 716 283 2858

Client Sample - Information - Identification

Sampler's Signature: Date: 5/29/13

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	TCL VOC	TCL SVOC	TAL metal	PCB	Pesticides	cyanide							Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8)oz	GL Soil container ( )oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle	
	SS-1-52913	S	5/29/13	1335		✓	✓	✓	✓									1					8	5	7	9	6
	SS-2-52913	S	5/29/13	1349		✓	✓	✓	✓									1					8	5	7	9	7
	SS-3-52913	S	5/29/13	1358		✓	✓	✓	✓									1					8	5	7	9	8
	Dup-2-52913	S	5/29/13	1406		✓	✓	✓	✓									1					8	5	7	9	9
*	MW-2-53113	S	5/31/13	9:30	✓	✓	✓	✓		✓							3	1					8	5	8	0	0
⊛ [illegible]	~~Dup-53113~~	S	~~5/31/13~~	~~9:35~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~		~~✓~~							3						~~8~~	~~5~~	~~8~~	~~0~~	~~1~~	[illegible]

Relinquished by:	Accepted by:	Date:	Time:
	Fed ex	5-31-13	2:10pm
	KDellaBella	6/1/13	9:45

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 5 Days
● 10 Days
☐ Other

* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☐ TOGS GA GW
☐ CP-51 Soil
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
● NY375 Restricted Non-Residential Soil

Data Format
☐ Phoenix Std Report
☐ Excel
☐ PDF
☐ GIS/Key
☑ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other

Data Package
☐ NJ Reduced Deliv. *
● NY Enhanced (ASP B) *
☐ Other

State where samples were collected: NY

Comments, Special Requirements or Regulations:

* Lid on Jar labeled as 9:00 am (mw-2) 0-4' - labels on voa's and Jar mw-2 @ 9:30 LA

⊛ only recd voa's on this sample LA
Do not run Dup-53113 per Elby 6-3-13

PHOENIX
Environmental Laboratories, Inc.

Wednesday, June 19, 2013

Attn: Mr. Bill Heitzenrater
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Project ID: ARB - HERTEL - SNU
Sample ID#s: BD91845 - BD91852

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

June 19, 2013

FOR: Attn: Mr. Bill Heitzenrater
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/04/13	9:00
Location Code:	AFI-ENV	Received by:	LB	06/14/13	11:10
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	A12B-HENDEL-ENV				

Laboratory Data

SDG ID: GBD91845
Phoenix ID: BD91845

Project ID: ARB - HERTEL - SNU
Client ID: TP1-6413

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	2.7	0.7	mg/Kg	06/17/13	LK	SW6010
Barium	95.7	0.36	mg/Kg	06/17/13	LK	SW6010
Cadmium	2.19	0.36	mg/Kg	06/17/13	LK	SW6010
Chromium	20.3	0.36	mg/Kg	06/17/13	LK	SW6010
Lead	159	3.6	mg/Kg	06/17/13	EK	SW6010
Mercury	0.32	0.06	mg/Kg	06/17/13	RS	SW-7471
Selenium	< 1.5	1.5	mg/Kg	06/17/13	LK	SW6010
Silver	< 0.36	0.36	mg/Kg	06/17/13	LK	SW6010
Percent Solid	89		%	06/14/13	JL	E160.3
Soil Extraction for SVOA	Completed			06/14/13	JJ/FV	SW3545
Mercury Digestion	Completed			06/17/13	H/H	SW7471
Total Metals Digest	Completed			06/14/13	Z/AG	SW846 - 3050
Volatiles						
1,1,1-Trichloroethane	ND	310	ug/kg	06/17/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	310	ug/kg	06/17/13	R/J	SW8260
1,1,2-Trichloroethane	ND	310	ug/kg	06/17/13	R/J	SW8260
1,1-Dichloroethane	ND	310	ug/kg	06/17/13	R/J	SW8260
1,1-Dichloroethene	ND	310	ug/kg	06/17/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	310	ug/kg	06/17/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	310	ug/kg	06/17/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	310	ug/kg	06/17/13	R/J	SW8260
1,2-Dibromoethane	ND	310	ug/kg	06/17/13	R/J	SW8260
1,2-Dichlorobenzene	ND	310	ug/kg	06/17/13	R/J	SW8260
1,2-Dichloroethane	ND	310	ug/kg	06/17/13	R/J	SW8260
1,2-Dichloropropane	ND	310	ug/kg	06/17/13	R/J	SW8260
1,3-Dichlorobenzene	ND	310	ug/kg	06/17/13	R/J	SW8260
1,4-Dichlorobenzene	ND	310	ug/kg	06/17/13	R/J	SW8260
2-Hexanone	ND	1600	ug/kg	06/17/13	R/J	SW8260

Project ID: ARB - HERTEL - SNU
Client ID: TP1-6413

Phoenix I.D.: BD91845

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1600	ug/kg	06/17/13	R/J	SW8260
Acetone	ND	3100	ug/kg	06/17/13	R/J	SW8260
Benzene	ND	310	ug/kg	06/17/13	R/J	SW8260
Bromochloromethane	ND	310	ug/kg	06/17/13	R/J	SW8260
Bromodichloromethane	ND	310	ug/kg	06/17/13	R/J	SW8260
Bromoform	ND	310	ug/kg	06/17/13	R/J	SW8260
Bromomethane	ND	310	ug/kg	06/17/13	R/J	SW8260
Carbon Disulfide	ND	310	ug/kg	06/17/13	R/J	SW8260
Carbon tetrachloride	ND	310	ug/kg	06/17/13	R/J	SW8260
Chlorobenzene	ND	310	ug/kg	06/17/13	R/J	SW8260
Chloroethane	ND	310	ug/kg	06/17/13	R/J	SW8260
Chloroform	ND	310	ug/kg	06/17/13	R/J	SW8260
Chloromethane	ND	310	ug/kg	06/17/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	310	ug/kg	06/17/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	310	ug/kg	06/17/13	R/J	SW8260 [1]
Cyclohexane	ND	310	ug/kg	06/17/13	R/J	SW8260
Dibromochloromethane	ND	310	ug/kg	06/17/13	R/J	SW8260
Dichlorodifluoromethane	ND	310	ug/kg	06/17/13	R/J	SW8260
Ethylbenzene	ND	310	ug/kg	06/17/13	R/J	SW8260
Isopropylbenzene	ND	310	ug/kg	06/17/13	R/J	SW8260
m&p-Xylene	ND	310	ug/kg	06/17/13	R/J	SW8260
Methyl ethyl ketone	ND	1900	ug/kg	06/17/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	630	ug/kg	06/17/13	R/J	SW8260
Methylacetate	ND	310	ug/kg	06/17/13	R/J	SW8260
Methylcyclohexane	ND	310	ug/kg	06/17/13	R/J	SW8260
Methylene chloride	ND	310	ug/kg	06/17/13	R/J	SW8260
o-Xylene	ND	310	ug/kg	06/17/13	R/J	SW8260
Styrene	ND	310	ug/kg	06/17/13	R/J	SW8260
Tetrachloroethene	8100	310	ug/kg	06/17/13	R/J	SW8260
Toluene	ND	310	ug/kg	06/17/13	R/J	SW8260
Total Xylenes	ND	310	ug/kg	06/17/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	310	ug/kg	06/17/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	310	ug/kg	06/17/13	R/J	SW8260
Trichloroethene	ND	310	ug/kg	06/17/13	R/J	SW8260
Trichlorofluoromethane	ND	310	ug/kg	06/17/13	R/J	SW8260
Trichlorotrifluoroethane	ND	310	ug/kg	06/17/13	R/J	SW8260
Vinyl chloride	ND	310	ug/kg	06/17/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	103		%	06/17/13	R/J	70 - 130 %
% Bromofluorobenzene	90		%	06/17/13	R/J	70 - 130 %
% Dibromofluoromethane	96		%	06/17/13	R/J	70 - 130 %
% Toluene-d8	99		%	06/17/13	R/J	70 - 130 %

1,4-dioxane

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-dioxane	ND	6300	ug/kg	06/17/13	R/J	SW8260B
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	103		%	06/17/13	R/J	70 - 130 %
% Bromofluorobenzene	90		%	06/17/13	R/J	70 - 130 %
% Toluene-d8	99		%	06/17/13	R/J	70 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatile Library Search Top 10	Completed			06/18/13	R/J		
Semivolatiles							
1,1-Biphenyl	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
1,2,4,5-Tetrachlorobenzene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2,3,4,6-tetrachlorophenol	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2,4-Dichlorophenol	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2,4-Dimethylphenol	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2,4-Dinitrophenol	ND	15000	ug/Kg	06/16/13	DD	SW 8270	
2,4-Dinitrotoluene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2,6-Dinitrotoluene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2-Chloronaphthalene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2-Chlorophenol	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2-Methylnaphthalene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2-Nitroaniline	ND	15000	ug/Kg	06/16/13	DD	SW 8270	
2-Nitrophenol	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	9100	ug/Kg	06/16/13	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	11000	ug/Kg	06/16/13	DD	SW 8270	
3-Nitroaniline	ND	15000	ug/Kg	06/16/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	27000	ug/Kg	06/16/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	9100	ug/Kg	06/16/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
4-Chloroaniline	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
4-Nitroaniline	ND	15000	ug/Kg	06/16/13	DD	SW 8270	
4-Nitrophenol	ND	27000	ug/Kg	06/16/13	DD	SW 8270	
Acenaphthene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Acenaphthylene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Acetophenone	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Anthracene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Atrazine	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Benz(a)anthracene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Benzaldehyde	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Benzo(a)pyrene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Benzo(ghi)perylene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Benzyl butyl phthalate	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	9100	ug/Kg	06/16/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	6400	ug/Kg	06/16/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Caprolactam	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Carbazole	ND	27000	ug/Kg	06/16/13	DD	SW 8270	
Chrysene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
Dibenzofuran	ND	6400	ug/Kg	06/16/13	DD	SW 8270	

Project ID: ARB - HERTEL - SNU
Client ID: TP1-6413

Phoenix I.D.: BD91845

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Diethyl phthalate	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Dimethylphthalate	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Di-n-butylphthalate	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Di-n-octylphthalate	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Fluoranthene	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Fluorene	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Hexachlorobenzene	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Hexachlorobutadiene	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Hexachloroethane	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Isophorone	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Naphthalene	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Nitrobenzene	ND	6400	ug/Kg	06/16/13	DD	SW 8270
N-Nitrosodimethylamine	ND	9100	ug/Kg	06/16/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	6400	ug/Kg	06/16/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	9100	ug/Kg	06/16/13	DD	SW 8270
Pentachlorophenol	ND	9100	ug/Kg	06/16/13	DD	SW 8270
Phenanthrene	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Phenol	ND	6400	ug/Kg	06/16/13	DD	SW 8270
Pyrene	ND	6400	ug/Kg	06/16/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	*Diluted Out		%	06/16/13	DD	30 - 130 %
% 2-Fluorobiphenyl	*Diluted Out		%	06/16/13	DD	30 - 130 %
% 2-Fluorophenol	*Diluted Out		%	06/16/13	DD	30 - 130 %
% Nitrobenzene-d5	*Diluted Out		%	06/16/13	DD	30 - 130 %
% Phenol-d5	*Diluted Out		%	06/16/13	DD	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	06/16/13	DD	30 - 130 %
SVOA Library Search Top 15	Completed			06/17/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

Analysis Report

June 19, 2013

FOR: Attn: Mr. Bill Heitzenrater
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/04/13	9:38
Location Code:	AFI-ENV	Received by:	LB	06/14/13	11:10
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	A12B-HENDEL-ENV				

Laboratory Data

SDG ID: GBD91845
Phoenix ID: BD91846

Project ID: ARB - HERTEL - SNU
Client ID: TP2-6413

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	3.3	0.8	mg/Kg	06/17/13	LK	SW6010
Barium	454	0.40	mg/Kg	06/17/13	LK	SW6010
Cadmium	1.54	0.40	mg/Kg	06/17/13	LK	SW6010
Chromium	106	0.40	mg/Kg	06/17/13	LK	SW6010
Lead	110	0.40	mg/Kg	06/17/13	LK	SW6010
Mercury	0.14	0.07	mg/Kg	06/18/13	RS	SW-7471
Selenium	< 5.0	5.0	mg/Kg	06/17/13	EK	SW6010
Silver	< 0.60	0.60	mg/Kg	06/17/13	LK	SW6010
Percent Solid	89		%	06/14/13	JL	E160.3
Soil Extraction for SVOA	Completed			06/14/13	JJ/FV	SW3545
Mercury Digestion	Completed			06/17/13	H/H	SW7471
Total Metals Digest	Completed			06/14/13	Z/AG	SW846 - 3050
Volatiles						
1,1,1-Trichloroethane	ND	260	ug/kg	06/17/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	260	ug/kg	06/17/13	R/J	SW8260
1,1,2-Trichloroethane	ND	260	ug/kg	06/17/13	R/J	SW8260
1,1-Dichloroethane	ND	260	ug/kg	06/17/13	R/J	SW8260
1,1-Dichloroethene	ND	260	ug/kg	06/17/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	260	ug/kg	06/17/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	260	ug/kg	06/17/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	260	ug/kg	06/17/13	R/J	SW8260
1,2-Dibromoethane	ND	260	ug/kg	06/17/13	R/J	SW8260
1,2-Dichlorobenzene	ND	260	ug/kg	06/17/13	R/J	SW8260
1,2-Dichloroethane	ND	260	ug/kg	06/17/13	R/J	SW8260
1,2-Dichloropropane	ND	260	ug/kg	06/17/13	R/J	SW8260
1,3-Dichlorobenzene	ND	260	ug/kg	06/17/13	R/J	SW8260
1,4-Dichlorobenzene	ND	260	ug/kg	06/17/13	R/J	SW8260
2-Hexanone	ND	1300	ug/kg	06/17/13	R/J	SW8260

Project ID: ARB - HERTEL - SNU
Client ID: TP2-6413

Phoenix I.D.: BD91846

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	1300	ug/kg	06/17/13	R/J	SW8260	
Acetone	ND	2600	ug/kg	06/17/13	R/J	SW8260	
Benzene	ND	260	ug/kg	06/17/13	R/J	SW8260	
Bromochloromethane	ND	260	ug/kg	06/17/13	R/J	SW8260	
Bromodichloromethane	ND	260	ug/kg	06/17/13	R/J	SW8260	
Bromoform	ND	260	ug/kg	06/17/13	R/J	SW8260	
Bromomethane	ND	260	ug/kg	06/17/13	R/J	SW8260	
Carbon Disulfide	ND	260	ug/kg	06/17/13	R/J	SW8260	
Carbon tetrachloride	ND	260	ug/kg	06/17/13	R/J	SW8260	
Chlorobenzene	ND	260	ug/kg	06/17/13	R/J	SW8260	
Chloroethane	ND	260	ug/kg	06/17/13	R/J	SW8260	
Chloroform	ND	260	ug/kg	06/17/13	R/J	SW8260	
Chloromethane	ND	260	ug/kg	06/17/13	R/J	SW8260	
cis-1,2-Dichloroethene	560	260	ug/kg	06/17/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	260	ug/kg	06/17/13	R/J	SW8260	1
Cyclohexane	ND	260	ug/kg	06/17/13	R/J	SW8260	
Dibromochloromethane	ND	260	ug/kg	06/17/13	R/J	SW8260	
Dichlorodifluoromethane	ND	260	ug/kg	06/17/13	R/J	SW8260	
Ethylbenzene	ND	260	ug/kg	06/17/13	R/J	SW8260	
Isopropylbenzene	ND	260	ug/kg	06/17/13	R/J	SW8260	
m&p-Xylene	ND	260	ug/kg	06/17/13	R/J	SW8260	
Methyl ethyl ketone	ND	1600	ug/kg	06/17/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	520	ug/kg	06/17/13	R/J	SW8260	
Methylacetate	ND	260	ug/kg	06/17/13	R/J	SW8260	
Methylcyclohexane	ND	260	ug/kg	06/17/13	R/J	SW8260	
Methylene chloride	ND	260	ug/kg	06/17/13	R/J	SW8260	
o-Xylene	ND	260	ug/kg	06/17/13	R/J	SW8260	
Styrene	ND	260	ug/kg	06/17/13	R/J	SW8260	
Tetrachloroethene	140000	11000	ug/kg	06/18/13	R/J	SW8260	
Toluene	ND	260	ug/kg	06/17/13	R/J	SW8260	
Total Xylenes	ND	260	ug/kg	06/17/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	260	ug/kg	06/17/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	260	ug/kg	06/17/13	R/J	SW8260	
Trichloroethene	5400	260	ug/kg	06/17/13	R/J	SW8260	
Trichlorofluoromethane	ND	260	ug/kg	06/17/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	260	ug/kg	06/17/13	R/J	SW8260	
Vinyl chloride	ND	260	ug/kg	06/17/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	06/17/13	R/J	70 - 130 %	
% Bromofluorobenzene	88		%	06/17/13	R/J	70 - 130 %	
% Dibromofluoromethane	94		%	06/17/13	R/J	70 - 130 %	
% Toluene-d8	97		%	06/17/13	R/J	70 - 130 %	

1,4-dioxane

1,4-dioxane	ND	5200	ug/kg	06/17/13	R/J	SW8260B
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	06/17/13	R/J	70 - 130 %
% Bromofluorobenzene	88		%	06/17/13	R/J	70 - 130 %
% Toluene-d8	97		%	06/17/13	R/J	70 - 130 %

Project ID: ARB - HERTEL - SNU
Client ID: TP2-6413

Phoenix I.D.: BD91846

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatile Library Search Top 10	Completed			06/18/13	R/J		

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Biphenyl	ND	260	ug/Kg	06/15/13	DD	SW 8270	
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dichlorophenol	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dimethylphenol	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrophenol	ND	590	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrotoluene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2,6-Dinitrotoluene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2-Chloronaphthalene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2-Chlorophenol	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2-Methylnaphthalene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	06/15/13	DD	SW 8270	
2-Nitroaniline	ND	590	ug/Kg	06/15/13	DD	SW 8270	
2-Nitrophenol	ND	260	ug/Kg	06/15/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	06/15/13	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	440	ug/Kg	06/15/13	DD	SW 8270	
3-Nitroaniline	ND	590	ug/Kg	06/15/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	06/15/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	06/15/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	260	ug/Kg	06/15/13	DD	SW 8270	
4-Chloroaniline	ND	260	ug/Kg	06/15/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	06/15/13	DD	SW 8270	
4-Nitroaniline	ND	590	ug/Kg	06/15/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Anthracene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Atrazine	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Benz(a)anthracene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Benzaldehyde	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Benzyl butyl phthalate	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	06/15/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Caprolactam	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Carbazole	ND	1100	ug/Kg	06/15/13	DD	SW 8270	
Chrysene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/15/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	06/15/13	DD	SW 8270	

Project ID: ARB - HERTEL - SNU
Client ID: TP2-6413

Phoenix I.D.: BD91846

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Diethyl phthalate	ND	260	ug/Kg	06/15/13	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	06/15/13	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	06/15/13	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	06/15/13	DD	SW 8270
Fluoranthene	290	260	ug/Kg	06/15/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	06/15/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	06/15/13	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	06/15/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/15/13	DD	SW 8270
Isophorone	ND	260	ug/Kg	06/15/13	DD	SW 8270
Naphthalene	350	260	ug/Kg	06/15/13	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodimethylamine	ND	370	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	06/15/13	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	06/15/13	DD	SW 8270
Phenanthrene	460	260	ug/Kg	06/15/13	DD	SW 8270
Phenol	ND	260	ug/Kg	06/15/13	DD	SW 8270
Pyrene	290	260	ug/Kg	06/15/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	105		%	06/15/13	DD	30 - 130 %
% 2-Fluorobiphenyl	84		%	06/15/13	DD	30 - 130 %
% 2-Fluorophenol	74		%	06/15/13	DD	30 - 130 %
% Nitrobenzene-d5	85		%	06/15/13	DD	30 - 130 %
% Phenol-d5	81		%	06/15/13	DD	30 - 130 %
% Terphenyl-d14	101		%	06/15/13	DD	30 - 130 %
SVOA Library Search Top 15	Completed			06/17/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
June 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

June 19, 2013

FOR: Attn: Mr. Bill Heitzenrater
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/04/13	14:27
Location Code:	AFI-ENV	Received by:	LB	06/14/13	11:10
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	A12B-HENDEL-ENV				

Laboratory Data

SDG ID: GBD91845
Phoenix ID: BD91847

Project ID: ARB - HERTEL - SNU
Client ID: TP3-6413

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	2.5	0.7	mg/Kg	06/17/13	LK	SW6010
Barium	24.3	0.36	mg/Kg	06/17/13	LK	SW6010
Cadmium	0.74	0.36	mg/Kg	06/17/13	LK	SW6010
Chromium	15.1	0.36	mg/Kg	06/17/13	LK	SW6010
Lead	31.2	0.36	mg/Kg	06/17/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	06/18/13	RS	SW-7471
Selenium	< 1.4	1.4	mg/Kg	06/17/13	LK	SW6010
Silver	< 0.36	0.36	mg/Kg	06/17/13	LK	SW6010
Percent Solid	92		%	06/14/13	JL	E160.3
Soil Extraction for SVOA	Completed			06/14/13	JJ/FV	SW3545
Mercury Digestion	Completed			06/17/13	H/H	SW7471
Total Metals Digest	Completed			06/14/13	Z/AG	SW846 - 3050
Volatiles						
1,1,1-Trichloroethane	ND	290	ug/kg	06/18/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	290	ug/kg	06/18/13	R/J	SW8260
1,1,2-Trichloroethane	ND	290	ug/kg	06/18/13	R/J	SW8260
1,1-Dichloroethane	ND	290	ug/kg	06/18/13	R/J	SW8260
1,1-Dichloroethene	ND	290	ug/kg	06/18/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	290	ug/kg	06/18/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	290	ug/kg	06/18/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	290	ug/kg	06/18/13	R/J	SW8260
1,2-Dibromoethane	ND	290	ug/kg	06/18/13	R/J	SW8260
1,2-Dichlorobenzene	ND	290	ug/kg	06/18/13	R/J	SW8260
1,2-Dichloroethane	ND	290	ug/kg	06/18/13	R/J	SW8260
1,2-Dichloropropane	ND	290	ug/kg	06/18/13	R/J	SW8260
1,3-Dichlorobenzene	ND	290	ug/kg	06/18/13	R/J	SW8260
1,4-Dichlorobenzene	ND	290	ug/kg	06/18/13	R/J	SW8260
2-Hexanone	ND	1400	ug/kg	06/18/13	R/J	SW8260

Project ID: ARB - HERTEL - SNU
Client ID: TP3-6413

Phoenix I.D.: BD91847

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1400	ug/kg	06/18/13	R/J	SW8260
Acetone	ND	2900	ug/kg	06/18/13	R/J	SW8260
Benzene	ND	290	ug/kg	06/18/13	R/J	SW8260
Bromochloromethane	ND	290	ug/kg	06/18/13	R/J	SW8260
Bromodichloromethane	ND	290	ug/kg	06/18/13	R/J	SW8260
Bromoform	ND	290	ug/kg	06/18/13	R/J	SW8260
Bromomethane	ND	290	ug/kg	06/18/13	R/J	SW8260
Carbon Disulfide	ND	290	ug/kg	06/18/13	R/J	SW8260
Carbon tetrachloride	ND	290	ug/kg	06/18/13	R/J	SW8260
Chlorobenzene	ND	290	ug/kg	06/18/13	R/J	SW8260
Chloroethane	ND	290	ug/kg	06/18/13	R/J	SW8260
Chloroform	ND	290	ug/kg	06/18/13	R/J	SW8260
Chloromethane	ND	290	ug/kg	06/18/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	290	ug/kg	06/18/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	290	ug/kg	06/18/13	R/J	SW8260 1
Cyclohexane	ND	290	ug/kg	06/18/13	R/J	SW8260
Dibromochloromethane	ND	290	ug/kg	06/18/13	R/J	SW8260
Dichlorodifluoromethane	ND	290	ug/kg	06/18/13	R/J	SW8260
Ethylbenzene	ND	290	ug/kg	06/18/13	R/J	SW8260
Isopropylbenzene	ND	290	ug/kg	06/18/13	R/J	SW8260
m&p-Xylene	ND	290	ug/kg	06/18/13	R/J	SW8260
Methyl ethyl ketone	ND	1700	ug/kg	06/18/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	570	ug/kg	06/18/13	R/J	SW8260
Methylacetate	ND	290	ug/kg	06/18/13	R/J	SW8260
Methylcyclohexane	350	290	ug/kg	06/18/13	R/J	SW8260
Methylene chloride	ND	290	ug/kg	06/18/13	R/J	SW8260
o-Xylene	ND	290	ug/kg	06/18/13	R/J	SW8260
Styrene	ND	290	ug/kg	06/18/13	R/J	SW8260
Tetrachloroethene	4600	290	ug/kg	06/18/13	R/J	SW8260
Toluene	ND	290	ug/kg	06/18/13	R/J	SW8260
Total Xylenes	ND	290	ug/kg	06/18/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	290	ug/kg	06/18/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	290	ug/kg	06/18/13	R/J	SW8260
Trichloroethene	ND	290	ug/kg	06/18/13	R/J	SW8260
Trichlorofluoromethane	ND	290	ug/kg	06/18/13	R/J	SW8260
Trichlorotrifluoroethane	ND	290	ug/kg	06/18/13	R/J	SW8260
Vinyl chloride	ND	290	ug/kg	06/18/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	06/18/13	R/J	70 - 130 %
% Bromofluorobenzene	91		%	06/18/13	R/J	70 - 130 %
% Dibromofluoromethane	91		%	06/18/13	R/J	70 - 130 %
% Toluene-d8	102		%	06/18/13	R/J	70 - 130 %

1,4-dioxane

1,4-dioxane	ND	5700	ug/kg	06/18/13	R/J	SW8260B
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	06/18/13	R/J	70 - 130 %
% Bromofluorobenzene	91		%	06/18/13	R/J	70 - 130 %
% Toluene-d8	102		%	06/18/13	R/J	70 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatile Library Search Top 10	Completed			06/18/13	R/J		

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Biphenyl	ND	250	ug/Kg	06/15/13	DD	SW 8270	
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dichlorophenol	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dimethylphenol	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrophenol	ND	570	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2-Chloronaphthalene	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2-Chlorophenol	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2-Methylnaphthalene	350	250	ug/Kg	06/15/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	250	ug/Kg	06/15/13	DD	SW 8270	
2-Nitroaniline	ND	570	ug/Kg	06/15/13	DD	SW 8270	
2-Nitrophenol	ND	250	ug/Kg	06/15/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	06/15/13	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	430	ug/Kg	06/15/13	DD	SW 8270	
3-Nitroaniline	ND	570	ug/Kg	06/15/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	06/15/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	360	ug/Kg	06/15/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	250	ug/Kg	06/15/13	DD	SW 8270	
4-Chloroaniline	ND	250	ug/Kg	06/15/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	06/15/13	DD	SW 8270	
4-Nitroaniline	ND	570	ug/Kg	06/15/13	DD	SW 8270	
4-Nitrophenol	ND	1000	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthene	ND	250	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthylene	ND	250	ug/Kg	06/15/13	DD	SW 8270	
Acetophenone	ND	250	ug/Kg	06/15/13	DD	SW 8270	
Anthracene	ND	250	ug/Kg	06/15/13	DD	SW 8270	
Atrazine	ND	250	ug/Kg	06/15/13	DD	SW 8270	
Benz(a)anthracene	560	250	ug/Kg	06/15/13	DD	SW 8270	
Benzaldehyde	ND	250	ug/Kg	06/15/13	DD	SW 8270	
Benzo(a)pyrene	1200	250	ug/Kg	06/15/13	DD	SW 8270	
Benzo(b)fluoranthene	1900	250	ug/Kg	06/15/13	DD	SW 8270	
Benzo(ghi)perylene	1400	250	ug/Kg	06/15/13	DD	SW 8270	
Benzo(k)fluoranthene	570	250	ug/Kg	06/15/13	DD	SW 8270	
Benzyl butyl phthalate	ND	250	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	360	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	06/15/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	06/15/13	DD	SW 8270	
Caprolactam	ND	250	ug/Kg	06/15/13	DD	SW 8270	
Carbazole	ND	1000	ug/Kg	06/15/13	DD	SW 8270	
Chrysene	990	250	ug/Kg	06/15/13	DD	SW 8270	
Dibenz(a,h)anthracene	310	250	ug/Kg	06/15/13	DD	SW 8270	
Dibenzofuran	ND	250	ug/Kg	06/15/13	DD	SW 8270	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Diethyl phthalate	ND	250	ug/Kg	06/15/13	DD	SW 8270
Dimethylphthalate	ND	250	ug/Kg	06/15/13	DD	SW 8270
Di-n-butylphthalate	ND	250	ug/Kg	06/15/13	DD	SW 8270
Di-n-octylphthalate	ND	250	ug/Kg	06/15/13	DD	SW 8270
Fluoranthene	630	250	ug/Kg	06/15/13	DD	SW 8270
Fluorene	ND	250	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobenzene	ND	250	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobutadiene	ND	250	ug/Kg	06/15/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	250	ug/Kg	06/15/13	DD	SW 8270
Hexachloroethane	ND	250	ug/Kg	06/15/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	1100	250	ug/Kg	06/15/13	DD	SW 8270
Isophorone	ND	250	ug/Kg	06/15/13	DD	SW 8270
Naphthalene	280	250	ug/Kg	06/15/13	DD	SW 8270
Nitrobenzene	ND	250	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodimethylamine	ND	360	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	360	ug/Kg	06/15/13	DD	SW 8270
Pentachlorophenol	ND	360	ug/Kg	06/15/13	DD	SW 8270
Phenanthrene	480	250	ug/Kg	06/15/13	DD	SW 8270
Phenol	ND	250	ug/Kg	06/15/13	DD	SW 8270
Pyrene	670	250	ug/Kg	06/15/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	112		%	06/15/13	DD	30 - 130 %
% 2-Fluorobiphenyl	86		%	06/15/13	DD	30 - 130 %
% 2-Fluorophenol	76		%	06/15/13	DD	30 - 130 %
% Nitrobenzene-d5	87		%	06/15/13	DD	30 - 130 %
% Phenol-d5	84		%	06/15/13	DD	30 - 130 %
% Terphenyl-d14	101		%	06/15/13	DD	30 - 130 %
SVOA Library Search Top 15	Completed			06/17/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Report

June 19, 2013

FOR: Attn: Mr. Bill Heitzenrater
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/04/13	13:50
Location Code:	AFI-ENV	Received by:	LB	06/14/13	11:10
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	A12B-HENDEL-ENV				

Laboratory Data

SDG ID: GBD91845
Phoenix ID: BD91848

Project ID: ARB - HERTEL - SNU
Client ID: TP4-6413

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	6.3	0.8	mg/Kg	06/17/13	LK	SW6010
Barium	37.6	0.41	mg/Kg	06/17/13	LK	SW6010
Cadmium	0.98	0.41	mg/Kg	06/17/13	LK	SW6010
Chromium	12.7	0.41	mg/Kg	06/17/13	LK	SW6010
Lead	15.6	0.41	mg/Kg	06/17/13	LK	SW6010
Mercury	< 0.10	0.10	mg/Kg	06/18/13	RS	SW-7471
Selenium	< 1.6	1.6	mg/Kg	06/17/13	LK	SW6010
Silver	< 0.41	0.41	mg/Kg	06/17/13	LK	SW6010
Percent Solid	78		%	06/14/13	JL	E160.3
Soil Extraction for SVOA	Completed			06/14/13	JJ/FV	SW3545
Mercury Digestion	Completed			06/17/13	H/H	SW7471
Total Metals Digest	Completed			06/14/13	Z/AG	SW846 - 3050

Volatiles

1,1,1-Trichloroethane	ND	530	ug/kg	06/18/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	530	ug/kg	06/18/13	R/J	SW8260
1,1,2-Trichloroethane	ND	530	ug/kg	06/18/13	R/J	SW8260
1,1-Dichloroethane	ND	530	ug/kg	06/18/13	R/J	SW8260
1,1-Dichloroethene	ND	530	ug/kg	06/18/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	530	ug/kg	06/18/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	530	ug/kg	06/18/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	530	ug/kg	06/18/13	R/J	SW8260
1,2-Dibromoethane	ND	530	ug/kg	06/18/13	R/J	SW8260
1,2-Dichlorobenzene	ND	530	ug/kg	06/18/13	R/J	SW8260
1,2-Dichloroethane	ND	530	ug/kg	06/18/13	R/J	SW8260
1,2-Dichloropropane	ND	530	ug/kg	06/18/13	R/J	SW8260
1,3-Dichlorobenzene	ND	530	ug/kg	06/18/13	R/J	SW8260
1,4-Dichlorobenzene	ND	530	ug/kg	06/18/13	R/J	SW8260
2-Hexanone	ND	2700	ug/kg	06/18/13	R/J	SW8260

Project ID: ARB - HERTEL - SNU
Client ID: TP4-6413

Phoenix I.D.: BD91848

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	2700	ug/kg	06/18/13	R/J	SW8260	
Acetone	ND	5300	ug/kg	06/18/13	R/J	SW8260	
Benzene	ND	530	ug/kg	06/18/13	R/J	SW8260	
Bromochloromethane	ND	530	ug/kg	06/18/13	R/J	SW8260	
Bromodichloromethane	ND	530	ug/kg	06/18/13	R/J	SW8260	
Bromoform	ND	530	ug/kg	06/18/13	R/J	SW8260	
Bromomethane	ND	530	ug/kg	06/18/13	R/J	SW8260	
Carbon Disulfide	ND	530	ug/kg	06/18/13	R/J	SW8260	
Carbon tetrachloride	ND	530	ug/kg	06/18/13	R/J	SW8260	
Chlorobenzene	ND	530	ug/kg	06/18/13	R/J	SW8260	
Chloroethane	ND	530	ug/kg	06/18/13	R/J	SW8260	
Chloroform	ND	530	ug/kg	06/18/13	R/J	SW8260	
Chloromethane	ND	530	ug/kg	06/18/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	530	ug/kg	06/18/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	530	ug/kg	06/18/13	R/J	SW8260	1
Cyclohexane	ND	530	ug/kg	06/18/13	R/J	SW8260	
Dibromochloromethane	ND	530	ug/kg	06/18/13	R/J	SW8260	
Dichlorodifluoromethane	ND	530	ug/kg	06/18/13	R/J	SW8260	
Ethylbenzene	ND	530	ug/kg	06/18/13	R/J	SW8260	
Isopropylbenzene	ND	530	ug/kg	06/18/13	R/J	SW8260	
m&p-Xylene	ND	530	ug/kg	06/18/13	R/J	SW8260	
Methyl ethyl ketone	ND	3200	ug/kg	06/18/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	1100	ug/kg	06/18/13	R/J	SW8260	
Methylacetate	ND	530	ug/kg	06/18/13	R/J	SW8260	
Methylcyclohexane	ND	530	ug/kg	06/18/13	R/J	SW8260	
Methylene chloride	ND	530	ug/kg	06/18/13	R/J	SW8260	
o-Xylene	ND	530	ug/kg	06/18/13	R/J	SW8260	
Styrene	ND	530	ug/kg	06/18/13	R/J	SW8260	
Tetrachloroethene	1700	530	ug/kg	06/18/13	R/J	SW8260	
Toluene	ND	530	ug/kg	06/18/13	R/J	SW8260	
Total Xylenes	ND	530	ug/kg	06/18/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	530	ug/kg	06/18/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	530	ug/kg	06/18/13	R/J	SW8260	
Trichloroethene	ND	530	ug/kg	06/18/13	R/J	SW8260	
Trichlorofluoromethane	ND	530	ug/kg	06/18/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	530	ug/kg	06/18/13	R/J	SW8260	
Vinyl chloride	ND	530	ug/kg	06/18/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	06/18/13	R/J	70 - 130 %	
% Bromofluorobenzene	90		%	06/18/13	R/J	70 - 130 %	
% Dibromofluoromethane	90		%	06/18/13	R/J	70 - 130 %	
% Toluene-d8	99		%	06/18/13	R/J	70 - 130 %	

1,4-dioxane

1,4-dioxane	ND	11000	ug/kg	06/18/13	R/J	SW8260B
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	06/18/13	R/J	70 - 130 %
% Bromofluorobenzene	90		%	06/18/13	R/J	70 - 130 %
% Toluene-d8	99		%	06/18/13	R/J	70 - 130 %

Project ID: ARB - HERTEL - SNU
Client ID: TP4-6413

Phoenix I.D.: BD91848

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatile Library Search Top 10	Completed			06/18/13	R/J		
Semivolatiles							
1,1-Biphenyl	ND	300	ug/Kg	06/15/13	DD	SW 8270	
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2,3,4,6-tetrachlorophenol	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dichlorophenol	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dimethylphenol	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrophenol	ND	670	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrotoluene	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2,6-Dinitrotoluene	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2-Chloronaphthalene	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2-Chlorophenol	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2-Methylnaphthalene	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	300	ug/Kg	06/15/13	DD	SW 8270	
2-Nitroaniline	ND	670	ug/Kg	06/15/13	DD	SW 8270	
2-Nitrophenol	ND	300	ug/Kg	06/15/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	420	ug/Kg	06/15/13	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	510	ug/Kg	06/15/13	DD	SW 8270	
3-Nitroaniline	ND	670	ug/Kg	06/15/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	06/15/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	420	ug/Kg	06/15/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	300	ug/Kg	06/15/13	DD	SW 8270	
4-Chloroaniline	ND	300	ug/Kg	06/15/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	06/15/13	DD	SW 8270	
4-Nitroaniline	ND	670	ug/Kg	06/15/13	DD	SW 8270	
4-Nitrophenol	ND	1200	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthene	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthylene	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Acetophenone	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Anthracene	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Atrazine	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Benz(a)anthracene	530	300	ug/Kg	06/15/13	DD	SW 8270	
Benzaldehyde	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Benzo(a)pyrene	840	300	ug/Kg	06/15/13	DD	SW 8270	
Benzo(b)fluoranthene	1300	300	ug/Kg	06/15/13	DD	SW 8270	
Benzo(ghi)perylene	780	300	ug/Kg	06/15/13	DD	SW 8270	
Benzo(k)fluoranthene	440	300	ug/Kg	06/15/13	DD	SW 8270	
Benzyl butyl phthalate	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	420	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	06/15/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Caprolactam	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Carbazole	ND	1200	ug/Kg	06/15/13	DD	SW 8270	
Chrysene	780	300	ug/Kg	06/15/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	300	ug/Kg	06/15/13	DD	SW 8270	
Dibenzofuran	ND	300	ug/Kg	06/15/13	DD	SW 8270	

Project ID: ARB - HERTEL - SNU
Client ID: TP4-6413

Phoenix I.D.: BD91848

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Diethyl phthalate	ND	300	ug/Kg	06/15/13	DD	SW 8270
Dimethylphthalate	ND	300	ug/Kg	06/15/13	DD	SW 8270
Di-n-butylphthalate	ND	300	ug/Kg	06/15/13	DD	SW 8270
Di-n-octylphthalate	ND	300	ug/Kg	06/15/13	DD	SW 8270
Fluoranthene	890	300	ug/Kg	06/15/13	DD	SW 8270
Fluorene	ND	300	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobenzene	ND	300	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobutadiene	ND	300	ug/Kg	06/15/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	300	ug/Kg	06/15/13	DD	SW 8270
Hexachloroethane	ND	300	ug/Kg	06/15/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	650	300	ug/Kg	06/15/13	DD	SW 8270
Isophorone	ND	300	ug/Kg	06/15/13	DD	SW 8270
Naphthalene	ND	300	ug/Kg	06/15/13	DD	SW 8270
Nitrobenzene	ND	300	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodimethylamine	ND	420	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	300	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	420	ug/Kg	06/15/13	DD	SW 8270
Pentachlorophenol	ND	420	ug/Kg	06/15/13	DD	SW 8270
Phenanthrene	440	300	ug/Kg	06/15/13	DD	SW 8270
Phenol	ND	300	ug/Kg	06/15/13	DD	SW 8270
Pyrene	830	300	ug/Kg	06/15/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	81		%	06/15/13	DD	30 - 130 %
% 2-Fluorobiphenyl	80		%	06/15/13	DD	30 - 130 %
% 2-Fluorophenol	62		%	06/15/13	DD	30 - 130 %
% Nitrobenzene-d5	84		%	06/15/13	DD	30 - 130 %
% Phenol-d5	75		%	06/15/13	DD	30 - 130 %
% Terphenyl-d14	95		%	06/15/13	DD	30 - 130 %
SVOA Library Search Top 15	Completed			06/17/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2013

FOR: Attn: Mr. Bill Heitzenrater
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/04/13	15:25
Location Code:	AFI-ENV	Received by:	LB	06/14/13	11:10
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	A12B-HENDEL-ENV				

Laboratory Data

SDG ID: GBD91845
Phoenix ID: BD91849

Project ID: ARB - HERTEL - SNU
Client ID: TP5-6413

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	6.6	0.7	mg/Kg	06/17/13	LK	SW6010
Barium	52.5	0.36	mg/Kg	06/17/13	LK	SW6010
Cadmium	1.59	0.36	mg/Kg	06/17/13	LK	SW6010
Chromium	20.1	0.36	mg/Kg	06/17/13	LK	SW6010
Lead	37.1	0.36	mg/Kg	06/17/13	LK	SW6010
Mercury	< 0.09	0.09	mg/Kg	06/18/13	RS	SW-7471
Selenium	< 1.5	1.5	mg/Kg	06/17/13	LK	SW6010
Silver	< 0.36	0.36	mg/Kg	06/17/13	LK	SW6010
Percent Solid	84		%	06/14/13	JL	E160.3
Soil Extraction for SVOA	Completed			06/14/13	JJ/FV	SW3545
Mercury Digestion	Completed			06/17/13	H/H	SW7471
Total Metals Digest	Completed			06/14/13	Z/AG	SW846 - 3050
Volatiles						
1,1,1-Trichloroethane	ND	300	ug/kg	06/18/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	300	ug/kg	06/18/13	R/J	SW8260
1,1,2-Trichloroethane	ND	300	ug/kg	06/18/13	R/J	SW8260
1,1-Dichloroethane	ND	300	ug/kg	06/18/13	R/J	SW8260
1,1-Dichloroethene	ND	300	ug/kg	06/18/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	300	ug/kg	06/18/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	300	ug/kg	06/18/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	300	ug/kg	06/18/13	R/J	SW8260
1,2-Dibromoethane	ND	300	ug/kg	06/18/13	R/J	SW8260
1,2-Dichlorobenzene	ND	300	ug/kg	06/18/13	R/J	SW8260
1,2-Dichloroethane	ND	300	ug/kg	06/18/13	R/J	SW8260
1,2-Dichloropropane	ND	300	ug/kg	06/18/13	R/J	SW8260
1,3-Dichlorobenzene	ND	300	ug/kg	06/18/13	R/J	SW8260
1,4-Dichlorobenzene	ND	300	ug/kg	06/18/13	R/J	SW8260
2-Hexanone	ND	1500	ug/kg	06/18/13	R/J	SW8260

Project ID: ARB - HERTEL - SNU
Client ID: TP5-6413

Phoenix I.D.: BD91849

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	1500	ug/kg	06/18/13	R/J	SW8260	
Acetone	ND	3000	ug/kg	06/18/13	R/J	SW8260	
Benzene	ND	300	ug/kg	06/18/13	R/J	SW8260	
Bromochloromethane	ND	300	ug/kg	06/18/13	R/J	SW8260	
Bromodichloromethane	ND	300	ug/kg	06/18/13	R/J	SW8260	
Bromoform	ND	300	ug/kg	06/18/13	R/J	SW8260	
Bromomethane	ND	300	ug/kg	06/18/13	R/J	SW8260	
Carbon Disulfide	ND	300	ug/kg	06/18/13	R/J	SW8260	
Carbon tetrachloride	ND	300	ug/kg	06/18/13	R/J	SW8260	
Chlorobenzene	ND	300	ug/kg	06/18/13	R/J	SW8260	
Chloroethane	ND	300	ug/kg	06/18/13	R/J	SW8260	
Chloroform	ND	300	ug/kg	06/18/13	R/J	SW8260	
Chloromethane	ND	300	ug/kg	06/18/13	R/J	SW8260	
cis-1,2-Dichloroethene	950	300	ug/kg	06/18/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	300	ug/kg	06/18/13	R/J	SW8260	1
Cyclohexane	ND	300	ug/kg	06/18/13	R/J	SW8260	
Dibromochloromethane	ND	300	ug/kg	06/18/13	R/J	SW8260	
Dichlorodifluoromethane	ND	300	ug/kg	06/18/13	R/J	SW8260	
Ethylbenzene	ND	300	ug/kg	06/18/13	R/J	SW8260	
Isopropylbenzene	ND	300	ug/kg	06/18/13	R/J	SW8260	
m&p-Xylene	ND	300	ug/kg	06/18/13	R/J	SW8260	
Methyl ethyl ketone	ND	1800	ug/kg	06/18/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	610	ug/kg	06/18/13	R/J	SW8260	
Methylacetate	ND	300	ug/kg	06/18/13	R/J	SW8260	
Methylcyclohexane	420	300	ug/kg	06/18/13	R/J	SW8260	
Methylene chloride	ND	300	ug/kg	06/18/13	R/J	SW8260	
o-Xylene	ND	300	ug/kg	06/18/13	R/J	SW8260	
Styrene	ND	300	ug/kg	06/18/13	R/J	SW8260	
Tetrachloroethene	1500	300	ug/kg	06/18/13	R/J	SW8260	
Toluene	ND	300	ug/kg	06/18/13	R/J	SW8260	
Total Xylenes	ND	300	ug/kg	06/18/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	300	ug/kg	06/18/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	300	ug/kg	06/18/13	R/J	SW8260	
Trichloroethene	ND	300	ug/kg	06/18/13	R/J	SW8260	
Trichlorofluoromethane	ND	300	ug/kg	06/18/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	300	ug/kg	06/18/13	R/J	SW8260	
Vinyl chloride	ND	300	ug/kg	06/18/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	06/18/13	R/J	70 - 130 %	
% Bromofluorobenzene	90		%	06/18/13	R/J	70 - 130 %	
% Dibromofluoromethane	92		%	06/18/13	R/J	70 - 130 %	
% Toluene-d8	99		%	06/18/13	R/J	70 - 130 %	

1,4-dioxane

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-dioxane	ND	6100	ug/kg	06/18/13	R/J	SW8260B
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	06/18/13	R/J	70 - 130 %
% Bromofluorobenzene	90		%	06/18/13	R/J	70 - 130 %
% Toluene-d8	99		%	06/18/13	R/J	70 - 130 %

Project ID: ARB - HERTEL - SNU
Client ID: TP5-6413

Phoenix I.D.: BD91849

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatile Library Search Top 10	Completed			06/18/13	R/J		
Semivolatiles							
1,1-Biphenyl	ND	280	ug/Kg	06/15/13	DD	SW 8270	
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dichlorophenol	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dimethylphenol	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrophenol	ND	630	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrotoluene	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2,6-Dinitrotoluene	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2-Chloronaphthalene	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2-Chlorophenol	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2-Methylnaphthalene	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/15/13	DD	SW 8270	
2-Nitroaniline	ND	630	ug/Kg	06/15/13	DD	SW 8270	
2-Nitrophenol	ND	280	ug/Kg	06/15/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	06/15/13	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	470	ug/Kg	06/15/13	DD	SW 8270	
3-Nitroaniline	ND	630	ug/Kg	06/15/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	06/15/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	400	ug/Kg	06/15/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/15/13	DD	SW 8270	
4-Chloroaniline	ND	280	ug/Kg	06/15/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/15/13	DD	SW 8270	
4-Nitroaniline	ND	630	ug/Kg	06/15/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthene	ND	280	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthylene	ND	280	ug/Kg	06/15/13	DD	SW 8270	
Acetophenone	ND	280	ug/Kg	06/15/13	DD	SW 8270	
Anthracene	410	280	ug/Kg	06/15/13	DD	SW 8270	
Atrazine	ND	280	ug/Kg	06/15/13	DD	SW 8270	
Benz(a)anthracene	4000	280	ug/Kg	06/15/13	DD	SW 8270	
Benzaldehyde	ND	280	ug/Kg	06/15/13	DD	SW 8270	
Benzo(a)pyrene	5300	280	ug/Kg	06/15/13	DD	SW 8270	
Benzo(b)fluoranthene	8400	280	ug/Kg	06/15/13	DD	SW 8270	
Benzo(ghi)perylene	4600	280	ug/Kg	06/15/13	DD	SW 8270	
Benzo(k)fluoranthene	2200	280	ug/Kg	06/15/13	DD	SW 8270	
Benzyl butyl phthalate	ND	280	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	400	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/15/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/15/13	DD	SW 8270	
Caprolactam	ND	280	ug/Kg	06/15/13	DD	SW 8270	
Carbazole	ND	1100	ug/Kg	06/15/13	DD	SW 8270	
Chrysene	4800	280	ug/Kg	06/15/13	DD	SW 8270	
Dibenz(a,h)anthracene	1300	280	ug/Kg	06/15/13	DD	SW 8270	
Dibenzofuran	ND	280	ug/Kg	06/15/13	DD	SW 8270	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Diethyl phthalate	ND	280	ug/Kg	06/15/13	DD	SW 8270
Dimethylphthalate	ND	280	ug/Kg	06/15/13	DD	SW 8270
Di-n-butylphthalate	ND	280	ug/Kg	06/15/13	DD	SW 8270
Di-n-octylphthalate	ND	280	ug/Kg	06/15/13	DD	SW 8270
Fluoranthene	5000	280	ug/Kg	06/15/13	DD	SW 8270
Fluorene	ND	280	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobenzene	ND	280	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobutadiene	ND	280	ug/Kg	06/15/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/15/13	DD	SW 8270
Hexachloroethane	ND	280	ug/Kg	06/15/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	4100	280	ug/Kg	06/15/13	DD	SW 8270
Isophorone	ND	280	ug/Kg	06/15/13	DD	SW 8270
Naphthalene	ND	280	ug/Kg	06/15/13	DD	SW 8270
Nitrobenzene	ND	280	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodimethylamine	ND	400	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	400	ug/Kg	06/15/13	DD	SW 8270
Pentachlorophenol	ND	400	ug/Kg	06/15/13	DD	SW 8270
Phenanthrene	1800	280	ug/Kg	06/15/13	DD	SW 8270
Phenol	ND	280	ug/Kg	06/15/13	DD	SW 8270
Pyrene	4900	280	ug/Kg	06/15/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	99		%	06/15/13	DD	30 - 130 %
% 2-Fluorobiphenyl	76		%	06/15/13	DD	30 - 130 %
% 2-Fluorophenol	66		%	06/15/13	DD	30 - 130 %
% Nitrobenzene-d5	81		%	06/15/13	DD	30 - 130 %
% Phenol-d5	76		%	06/15/13	DD	30 - 130 %
% Terphenyl-d14	103		%	06/15/13	DD	30 - 130 %
SVOA Library Search Top 15	Completed			06/17/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Report

June 19, 2013

FOR: Attn: Mr. Bill Heitzenrater
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/04/13	15:31
Location Code:	AFI-ENV	Received by:	LB	06/14/13	11:10
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	A12B-HENDEL-ENV				

Laboratory Data

SDG ID: GBD91845
Phoenix ID: BD91850

Project ID: ARB - HERTEL - SNU
Client ID: TP6-6413

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	3.3	1.0	mg/Kg	06/17/13	LK	SW6010
Barium	46.8	0.50	mg/Kg	06/17/13	LK	SW6010
Cadmium	0.89	0.50	mg/Kg	06/17/13	LK	SW6010
Chromium	11.3	0.50	mg/Kg	06/17/13	LK	SW6010
Lead	34.5	0.50	mg/Kg	06/17/13	LK	SW6010
Mercury	< 0.11	0.11	mg/Kg	06/18/13	RS	SW-7471
Selenium	< 2.0	2.0	mg/Kg	06/17/13	LK	SW6010
Silver	< 0.50	0.50	mg/Kg	06/17/13	LK	SW6010
Percent Solid	71		%	06/14/13	JL	E160.3
Soil Extraction for SVOA	Completed			06/14/13	JJ/FV	SW3545
Mercury Digestion	Completed			06/17/13	H/H	SW7471
Total Metals Digest	Completed			06/14/13	Z/AG	SW846 - 3050
Volatiles						
1,1,1-Trichloroethane	ND	12	ug/kg	06/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	12	ug/kg	06/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	12	ug/kg	06/15/13	R/J	SW8260
1,1-Dichloroethane	ND	12	ug/kg	06/15/13	R/J	SW8260
1,1-Dichloroethene	ND	12	ug/kg	06/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	12	ug/kg	06/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	12	ug/kg	06/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	12	ug/kg	06/15/13	R/J	SW8260
1,2-Dibromoethane	ND	12	ug/kg	06/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	12	ug/kg	06/15/13	R/J	SW8260
1,2-Dichloroethane	ND	12	ug/kg	06/15/13	R/J	SW8260
1,2-Dichloropropane	ND	12	ug/kg	06/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	12	ug/kg	06/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	12	ug/kg	06/15/13	R/J	SW8260
2-Hexanone	ND	58	ug/kg	06/15/13	R/J	SW8260

Project ID: ARB - HERTEL - SNU
Client ID: TP6-6413

Phoenix I.D.: BD91850

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	58	ug/kg	06/15/13	R/J	SW8260	
Acetone	ND	120	ug/kg	06/15/13	R/J	SW8260	
Benzene	ND	12	ug/kg	06/15/13	R/J	SW8260	
Bromochloromethane	ND	12	ug/kg	06/15/13	R/J	SW8260	
Bromodichloromethane	ND	12	ug/kg	06/15/13	R/J	SW8260	
Bromoform	ND	12	ug/kg	06/15/13	R/J	SW8260	
Bromomethane	ND	12	ug/kg	06/15/13	R/J	SW8260	
Carbon Disulfide	ND	12	ug/kg	06/15/13	R/J	SW8260	
Carbon tetrachloride	ND	12	ug/kg	06/15/13	R/J	SW8260	
Chlorobenzene	ND	12	ug/kg	06/15/13	R/J	SW8260	
Chloroethane	ND	12	ug/kg	06/15/13	R/J	SW8260	
Chloroform	ND	12	ug/kg	06/15/13	R/J	SW8260	
Chloromethane	ND	12	ug/kg	06/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	12	ug/kg	06/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	12	ug/kg	06/15/13	R/J	SW8260	1
Cyclohexane	ND	12	ug/kg	06/15/13	R/J	SW8260	
Dibromochloromethane	ND	12	ug/kg	06/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	12	ug/kg	06/15/13	R/J	SW8260	
Ethylbenzene	ND	12	ug/kg	06/15/13	R/J	SW8260	
Isopropylbenzene	ND	12	ug/kg	06/15/13	R/J	SW8260	
m&p-Xylene	ND	12	ug/kg	06/15/13	R/J	SW8260	
Methyl ethyl ketone	ND	69	ug/kg	06/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	23	ug/kg	06/15/13	R/J	SW8260	
Methylacetate	ND	12	ug/kg	06/15/13	R/J	SW8260	
Methylcyclohexane	ND	12	ug/kg	06/15/13	R/J	SW8260	
Methylene chloride	ND	12	ug/kg	06/15/13	R/J	SW8260	
o-Xylene	ND	12	ug/kg	06/15/13	R/J	SW8260	
Styrene	ND	12	ug/kg	06/15/13	R/J	SW8260	
Tetrachloroethene	120	12	ug/kg	06/15/13	R/J	SW8260	
Toluene	ND	12	ug/kg	06/15/13	R/J	SW8260	
Total Xylenes	ND	12	ug/kg	06/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	12	ug/kg	06/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	12	ug/kg	06/15/13	R/J	SW8260	
Trichloroethene	ND	12	ug/kg	06/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	12	ug/kg	06/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	12	ug/kg	06/15/13	R/J	SW8260	
Vinyl chloride	ND	12	ug/kg	06/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	108		%	06/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	81		%	06/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	104		%	06/15/13	R/J	70 - 130 %	
% Toluene-d8	97		%	06/15/13	R/J	70 - 130 %	

1,4-dioxane

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-dioxane	ND	230	ug/kg	06/15/13	R/J	SW8260B
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	108		%	06/15/13	R/J	70 - 130 %
% Bromofluorobenzene	81		%	06/15/13	R/J	70 - 130 %
% Toluene-d8	97		%	06/15/13	R/J	70 - 130 %

Project ID: ARB - HERTEL - SNU
Client ID: TP6-6413

Phoenix I.D.: BD91850

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatile Library Search Top 10	Completed			06/19/13	R/J		
Semivolatiles							
1,1-Biphenyl	ND	330	ug/Kg	06/15/13	DD	SW 8270	
1,2,4,5-Tetrachlorobenzene	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2,3,4,6-tetrachlorophenol	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dichlorophenol	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dimethylphenol	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrophenol	ND	740	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrotoluene	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2,6-Dinitrotoluene	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2-Chloronaphthalene	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2-Chlorophenol	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2-Methylnaphthalene	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	330	ug/Kg	06/15/13	DD	SW 8270	
2-Nitroaniline	ND	740	ug/Kg	06/15/13	DD	SW 8270	
2-Nitrophenol	ND	330	ug/Kg	06/15/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	460	ug/Kg	06/15/13	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	560	ug/Kg	06/15/13	DD	SW 8270	
3-Nitroaniline	ND	740	ug/Kg	06/15/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1300	ug/Kg	06/15/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	460	ug/Kg	06/15/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	330	ug/Kg	06/15/13	DD	SW 8270	
4-Chloroaniline	ND	330	ug/Kg	06/15/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	330	ug/Kg	06/15/13	DD	SW 8270	
4-Nitroaniline	ND	740	ug/Kg	06/15/13	DD	SW 8270	
4-Nitrophenol	ND	1300	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthene	ND	330	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthylene	ND	330	ug/Kg	06/15/13	DD	SW 8270	
Acetophenone	ND	330	ug/Kg	06/15/13	DD	SW 8270	
Anthracene	ND	330	ug/Kg	06/15/13	DD	SW 8270	
Atrazine	ND	330	ug/Kg	06/15/13	DD	SW 8270	
Benz(a)anthracene	3900	330	ug/Kg	06/15/13	DD	SW 8270	
Benzaldehyde	ND	330	ug/Kg	06/15/13	DD	SW 8270	
Benzo(a)pyrene	4400	330	ug/Kg	06/15/13	DD	SW 8270	
Benzo(b)fluoranthene	11000	330	ug/Kg	06/15/13	DD	SW 8270	
Benzo(ghi)perylene	3900	330	ug/Kg	06/15/13	DD	SW 8270	
Benzo(k)fluoranthene	2200	330	ug/Kg	06/15/13	DD	SW 8270	
Benzyl butyl phthalate	ND	330	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	330	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	460	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	330	ug/Kg	06/15/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	330	ug/Kg	06/15/13	DD	SW 8270	
Caprolactam	ND	330	ug/Kg	06/15/13	DD	SW 8270	
Carbazole	ND	1300	ug/Kg	06/15/13	DD	SW 8270	
Chrysene	7200	330	ug/Kg	06/15/13	DD	SW 8270	
Dibenz(a,h)anthracene	1600	330	ug/Kg	06/15/13	DD	SW 8270	
Dibenzofuran	ND	330	ug/Kg	06/15/13	DD	SW 8270	

Project ID: ARB - HERTEL - SNU
Client ID: TP6-6413

Phoenix I.D.: BD91850

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Diethyl phthalate	ND	330	ug/Kg	06/15/13	DD	SW 8270
Dimethylphthalate	ND	330	ug/Kg	06/15/13	DD	SW 8270
Di-n-butylphthalate	ND	330	ug/Kg	06/15/13	DD	SW 8270
Di-n-octylphthalate	ND	330	ug/Kg	06/15/13	DD	SW 8270
Fluoranthene	4100	330	ug/Kg	06/15/13	DD	SW 8270
Fluorene	ND	330	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobenzene	ND	330	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobutadiene	ND	330	ug/Kg	06/15/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	330	ug/Kg	06/15/13	DD	SW 8270
Hexachloroethane	ND	330	ug/Kg	06/15/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	3400	330	ug/Kg	06/15/13	DD	SW 8270
Isophorone	ND	330	ug/Kg	06/15/13	DD	SW 8270
Naphthalene	ND	330	ug/Kg	06/15/13	DD	SW 8270
Nitrobenzene	ND	330	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodimethylamine	ND	460	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	330	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	460	ug/Kg	06/15/13	DD	SW 8270
Pentachlorophenol	ND	460	ug/Kg	06/15/13	DD	SW 8270
Phenanthrene	1000	330	ug/Kg	06/15/13	DD	SW 8270
Phenol	ND	330	ug/Kg	06/15/13	DD	SW 8270
Pyrene	3900	330	ug/Kg	06/15/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	103		%	06/15/13	DD	30 - 130 %
% 2-Fluorobiphenyl	76		%	06/15/13	DD	30 - 130 %
% 2-Fluorophenol	68		%	06/15/13	DD	30 - 130 %
% Nitrobenzene-d5	86		%	06/15/13	DD	30 - 130 %
% Phenol-d5	80		%	06/15/13	DD	30 - 130 %
% Terphenyl-d14	106		%	06/15/13	DD	30 - 130 %
SVOA Library Search Top 15	Completed			06/17/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Report

June 19, 2013

FOR: Attn: Mr. Bill Heitzenrater
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/04/13	15:32
Location Code:	AFI-ENV	Received by:	LB	06/14/13	11:10
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	A12B-HENDEL-ENV				

Laboratory Data

SDG ID: GBD91845
Phoenix ID: BD91851

Project ID: ARB - HERTEL - SNU
Client ID: TP7-6413

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	6.2	0.8	mg/Kg	06/17/13	LK	SW6010
Barium	96.1	0.41	mg/Kg	06/17/13	LK	SW6010
Cadmium	0.79	0.41	mg/Kg	06/17/13	LK	SW6010
Chromium	12.5	0.41	mg/Kg	06/17/13	LK	SW6010
Lead	76.3	0.41	mg/Kg	06/17/13	LK	SW6010
Mercury	0.09	0.08	mg/Kg	06/18/13	RS	SW-7471
Selenium	< 1.6	1.6	mg/Kg	06/17/13	LK	SW6010
Silver	< 0.41	0.41	mg/Kg	06/17/13	LK	SW6010
Percent Solid	83		%	06/14/13	JL	E160.3
Soil Extraction for SVOA	Completed			06/14/13	JJ/FV	SW3545
Mercury Digestion	Completed			06/17/13	H/H	SW7471
Total Metals Digest	Completed			06/14/13	Z/AG	SW846 - 3050
Volatiles						
1,1,1-Trichloroethane	ND	340	ug/kg	06/18/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	340	ug/kg	06/18/13	R/J	SW8260
1,1,2-Trichloroethane	ND	340	ug/kg	06/18/13	R/J	SW8260
1,1-Dichloroethane	ND	340	ug/kg	06/18/13	R/J	SW8260
1,1-Dichloroethene	ND	340	ug/kg	06/18/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	340	ug/kg	06/18/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	340	ug/kg	06/18/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	340	ug/kg	06/18/13	R/J	SW8260
1,2-Dibromoethane	ND	340	ug/kg	06/18/13	R/J	SW8260
1,2-Dichlorobenzene	ND	340	ug/kg	06/18/13	R/J	SW8260
1,2-Dichloroethane	ND	340	ug/kg	06/18/13	R/J	SW8260
1,2-Dichloropropane	ND	340	ug/kg	06/18/13	R/J	SW8260
1,3-Dichlorobenzene	ND	340	ug/kg	06/18/13	R/J	SW8260
1,4-Dichlorobenzene	ND	340	ug/kg	06/18/13	R/J	SW8260
2-Hexanone	ND	1700	ug/kg	06/18/13	R/J	SW8260

Project ID: ARB - HERTEL - SNU
Client ID: TP7-6413

Phoenix I.D.: BD91851

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1700	ug/kg	06/18/13	R/J	SW8260
Acetone	ND	3400	ug/kg	06/18/13	R/J	SW8260
Benzene	ND	340	ug/kg	06/18/13	R/J	SW8260
Bromochloromethane	ND	340	ug/kg	06/18/13	R/J	SW8260
Bromodichloromethane	ND	340	ug/kg	06/18/13	R/J	SW8260
Bromoform	ND	340	ug/kg	06/18/13	R/J	SW8260
Bromomethane	ND	340	ug/kg	06/18/13	R/J	SW8260
Carbon Disulfide	ND	340	ug/kg	06/18/13	R/J	SW8260
Carbon tetrachloride	ND	340	ug/kg	06/18/13	R/J	SW8260
Chlorobenzene	ND	340	ug/kg	06/18/13	R/J	SW8260
Chloroethane	ND	340	ug/kg	06/18/13	R/J	SW8260
Chloroform	ND	340	ug/kg	06/18/13	R/J	SW8260
Chloromethane	ND	340	ug/kg	06/18/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	340	ug/kg	06/18/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	340	ug/kg	06/18/13	R/J	SW8260 1
Cyclohexane	ND	340	ug/kg	06/18/13	R/J	SW8260
Dibromochloromethane	ND	340	ug/kg	06/18/13	R/J	SW8260
Dichlorodifluoromethane	ND	340	ug/kg	06/18/13	R/J	SW8260
Ethylbenzene	ND	340	ug/kg	06/18/13	R/J	SW8260
Isopropylbenzene	ND	340	ug/kg	06/18/13	R/J	SW8260
m&p-Xylene	ND	340	ug/kg	06/18/13	R/J	SW8260
Methyl ethyl ketone	ND	2000	ug/kg	06/18/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	670	ug/kg	06/18/13	R/J	SW8260
Methylacetate	ND	340	ug/kg	06/18/13	R/J	SW8260
Methylcyclohexane	370	340	ug/kg	06/18/13	R/J	SW8260
Methylene chloride	ND	340	ug/kg	06/18/13	R/J	SW8260
o-Xylene	ND	340	ug/kg	06/18/13	R/J	SW8260
Styrene	ND	340	ug/kg	06/18/13	R/J	SW8260
Tetrachloroethene	12000	1200	ug/kg	06/18/13	R/J	SW8260
Toluene	ND	340	ug/kg	06/18/13	R/J	SW8260
Total Xylenes	ND	340	ug/kg	06/18/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	340	ug/kg	06/18/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	340	ug/kg	06/18/13	R/J	SW8260
Trichloroethene	ND	340	ug/kg	06/18/13	R/J	SW8260
Trichlorofluoromethane	ND	340	ug/kg	06/18/13	R/J	SW8260
Trichlorotrifluoroethane	ND	340	ug/kg	06/18/13	R/J	SW8260
Vinyl chloride	ND	340	ug/kg	06/18/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	06/18/13	R/J	70 - 130 %
% Bromofluorobenzene	90		%	06/18/13	R/J	70 - 130 %
% Dibromofluoromethane	92		%	06/18/13	R/J	70 - 130 %
% Toluene-d8	100		%	06/18/13	R/J	70 - 130 %

1,4-dioxane

1,4-dioxane	ND	6700	ug/kg	06/18/13	R/J	SW8260B
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	06/18/13	R/J	70 - 130 %
% Bromofluorobenzene	90		%	06/18/13	R/J	70 - 130 %
% Toluene-d8	100		%	06/18/13	R/J	70 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatile Library Search Top 10	Completed			06/18/13	R/J		
Semivolatiles							
1,1-Biphenyl	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
1,2,4,5-Tetrachlorobenzene	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2,3,4,6-tetrachlorophenol	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2,4-Dichlorophenol	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2,4-Dimethylphenol	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2,4-Dinitrophenol	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2,4-Dinitrotoluene	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2,6-Dinitrotoluene	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2-Chloronaphthalene	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2-Chlorophenol	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2-Methylnaphthalene	3800	2800	ug/Kg	06/16/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
2-Nitroaniline	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
2-Nitrophenol	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	4000	ug/Kg	06/16/13	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	4800	ug/Kg	06/16/13	DD	SW 8270	
3-Nitroaniline	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	12000	ug/Kg	06/16/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	4000	ug/Kg	06/16/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
4-Chloroaniline	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
4-Nitroaniline	ND	6400	ug/Kg	06/16/13	DD	SW 8270	
4-Nitrophenol	ND	12000	ug/Kg	06/16/13	DD	SW 8270	
Acenaphthene	5700	2800	ug/Kg	06/16/13	DD	SW 8270	
Acenaphthylene	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
Acetophenone	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
Anthracene	15000	2800	ug/Kg	06/16/13	DD	SW 8270	
Atrazine	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
Benz(a)anthracene	24000	2800	ug/Kg	06/16/13	DD	SW 8270	
Benzaldehyde	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
Benzo(a)pyrene	23000	2800	ug/Kg	06/16/13	DD	SW 8270	
Benzo(b)fluoranthene	37000	2800	ug/Kg	06/16/13	DD	SW 8270	
Benzo(ghi)perylene	14000	2800	ug/Kg	06/16/13	DD	SW 8270	
Benzo(k)fluoranthene	8900	2800	ug/Kg	06/16/13	DD	SW 8270	
Benzyl butyl phthalate	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	4000	ug/Kg	06/16/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	2800	ug/Kg	06/16/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
Caprolactam	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
Carbazole	ND	12000	ug/Kg	06/16/13	DD	SW 8270	
Chrysene	29000	2800	ug/Kg	06/16/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	2800	ug/Kg	06/16/13	DD	SW 8270	
Dibenzofuran	8800	2800	ug/Kg	06/16/13	DD	SW 8270	

Project ID: ARB - HERTEL - SNU
Client ID: TP7-6413

Phoenix I.D.: BD91851

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Diethyl phthalate	ND	2800	ug/Kg	06/16/13	DD	SW 8270
Dimethylphthalate	ND	2800	ug/Kg	06/16/13	DD	SW 8270
Di-n-butylphthalate	ND	2800	ug/Kg	06/16/13	DD	SW 8270
Di-n-octylphthalate	ND	2800	ug/Kg	06/16/13	DD	SW 8270
Fluoranthene	41000	2800	ug/Kg	06/16/13	DD	SW 8270
Fluorene	11000	2800	ug/Kg	06/16/13	DD	SW 8270
Hexachlorobenzene	ND	2800	ug/Kg	06/16/13	DD	SW 8270
Hexachlorobutadiene	ND	2800	ug/Kg	06/16/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	2800	ug/Kg	06/16/13	DD	SW 8270
Hexachloroethane	ND	2800	ug/Kg	06/16/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	13000	2800	ug/Kg	06/16/13	DD	SW 8270
Isophorone	ND	2800	ug/Kg	06/16/13	DD	SW 8270
Naphthalene	15000	2800	ug/Kg	06/16/13	DD	SW 8270
Nitrobenzene	ND	2800	ug/Kg	06/16/13	DD	SW 8270
N-Nitrosodimethylamine	ND	4000	ug/Kg	06/16/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	2800	ug/Kg	06/16/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	4000	ug/Kg	06/16/13	DD	SW 8270
Pentachlorophenol	ND	4000	ug/Kg	06/16/13	DD	SW 8270
Phenanthrene	45000	2800	ug/Kg	06/16/13	DD	SW 8270
Phenol	ND	2800	ug/Kg	06/16/13	DD	SW 8270
Pyrene	33000	2800	ug/Kg	06/16/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	*Diluted Out		%	06/16/13	DD	30 - 130 %
% 2-Fluorobiphenyl	*Diluted Out		%	06/16/13	DD	30 - 130 %
% 2-Fluorophenol	*Diluted Out		%	06/16/13	DD	30 - 130 %
% Nitrobenzene-d5	*Diluted Out		%	06/16/13	DD	30 - 130 %
% Phenol-d5	*Diluted Out		%	06/16/13	DD	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	06/16/13	DD	30 - 130 %
SVOA Library Search Top 15	Completed			06/17/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Report

June 19, 2013

FOR: Attn: Mr. Bill Heitzenrater
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/04/13	15:35
Location Code:	AFI-ENV	Received by:	LB	06/14/13	11:10
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	A12B-HENDEL-ENV				

Laboratory Data

SDG ID: GBD91845
Phoenix ID: BD91852

Project ID: ARB - HERTEL - SNU
Client ID: TP8-6413

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	9.4	0.7	mg/Kg	06/17/13	LK	SW6010
Barium	49.2	0.35	mg/Kg	06/17/13	LK	SW6010
Cadmium	0.97	0.35	mg/Kg	06/17/13	LK	SW6010
Chromium	27.9	0.35	mg/Kg	06/17/13	LK	SW6010
Lead	27.8	0.35	mg/Kg	06/17/13	LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/18/13	RS	SW-7471
Selenium	< 1.4	1.4	mg/Kg	06/17/13	LK	SW6010
Silver	< 0.35	0.35	mg/Kg	06/17/13	LK	SW6010
Percent Solid	85		%	06/14/13	JL	E160.3
Soil Extraction for SVOA	Completed			06/14/13	JJ/FV	SW3545
Mercury Digestion	Completed			06/17/13	H/H	SW7471
Total Metals Digest	Completed			06/14/13	Z/AG	SW846 - 3050
Volatiles						
1,1,1-Trichloroethane	ND	270	ug/kg	06/18/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	270	ug/kg	06/18/13	R/J	SW8260
1,1,2-Trichloroethane	ND	270	ug/kg	06/18/13	R/J	SW8260
1,1-Dichloroethane	ND	270	ug/kg	06/18/13	R/J	SW8260
1,1-Dichloroethene	ND	270	ug/kg	06/18/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	270	ug/kg	06/18/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	270	ug/kg	06/18/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	270	ug/kg	06/18/13	R/J	SW8260
1,2-Dibromoethane	ND	270	ug/kg	06/18/13	R/J	SW8260
1,2-Dichlorobenzene	ND	270	ug/kg	06/18/13	R/J	SW8260
1,2-Dichloroethane	ND	270	ug/kg	06/18/13	R/J	SW8260
1,2-Dichloropropane	ND	270	ug/kg	06/18/13	R/J	SW8260
1,3-Dichlorobenzene	ND	270	ug/kg	06/18/13	R/J	SW8260
1,4-Dichlorobenzene	ND	270	ug/kg	06/18/13	R/J	SW8260
2-Hexanone	ND	1300	ug/kg	06/18/13	R/J	SW8260

Project ID: ARB - HERTEL - SNU
Client ID: TP8-6413

Phoenix I.D.: BD91852

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	1300	ug/kg	06/18/13	R/J	SW8260	
Acetone	ND	2700	ug/kg	06/18/13	R/J	SW8260	
Benzene	ND	270	ug/kg	06/18/13	R/J	SW8260	
Bromochloromethane	ND	270	ug/kg	06/18/13	R/J	SW8260	
Bromodichloromethane	ND	270	ug/kg	06/18/13	R/J	SW8260	
Bromoform	ND	270	ug/kg	06/18/13	R/J	SW8260	
Bromomethane	ND	270	ug/kg	06/18/13	R/J	SW8260	
Carbon Disulfide	ND	270	ug/kg	06/18/13	R/J	SW8260	
Carbon tetrachloride	ND	270	ug/kg	06/18/13	R/J	SW8260	
Chlorobenzene	ND	270	ug/kg	06/18/13	R/J	SW8260	
Chloroethane	ND	270	ug/kg	06/18/13	R/J	SW8260	
Chloroform	ND	270	ug/kg	06/18/13	R/J	SW8260	
Chloromethane	ND	270	ug/kg	06/18/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	270	ug/kg	06/18/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	270	ug/kg	06/18/13	R/J	SW8260	1
Cyclohexane	ND	270	ug/kg	06/18/13	R/J	SW8260	
Dibromochloromethane	ND	270	ug/kg	06/18/13	R/J	SW8260	
Dichlorodifluoromethane	ND	270	ug/kg	06/18/13	R/J	SW8260	
Ethylbenzene	ND	270	ug/kg	06/18/13	R/J	SW8260	
Isopropylbenzene	ND	270	ug/kg	06/18/13	R/J	SW8260	
m&p-Xylene	ND	270	ug/kg	06/18/13	R/J	SW8260	
Methyl ethyl ketone	ND	1600	ug/kg	06/18/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	530	ug/kg	06/18/13	R/J	SW8260	
Methylacetate	ND	270	ug/kg	06/18/13	R/J	SW8260	
Methylcyclohexane	ND	270	ug/kg	06/18/13	R/J	SW8260	
Methylene chloride	ND	270	ug/kg	06/18/13	R/J	SW8260	
o-Xylene	ND	270	ug/kg	06/18/13	R/J	SW8260	
Styrene	ND	270	ug/kg	06/18/13	R/J	SW8260	
Tetrachloroethene	24000	1500	ug/kg	06/18/13	R/J	SW8260	
Toluene	ND	270	ug/kg	06/18/13	R/J	SW8260	
Total Xylenes	ND	270	ug/kg	06/18/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	270	ug/kg	06/18/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	270	ug/kg	06/18/13	R/J	SW8260	
Trichloroethene	ND	270	ug/kg	06/18/13	R/J	SW8260	
Trichlorofluoromethane	ND	270	ug/kg	06/18/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	270	ug/kg	06/18/13	R/J	SW8260	
Vinyl chloride	ND	270	ug/kg	06/18/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	06/18/13	R/J	70 - 130 %	
% Bromofluorobenzene	88		%	06/18/13	R/J	70 - 130 %	
% Dibromofluoromethane	93		%	06/18/13	R/J	70 - 130 %	
% Toluene-d8	100		%	06/18/13	R/J	70 - 130 %	

1,4-dioxane

1,4-dioxane	ND	5300	ug/kg	06/18/13	R/J	SW8260B
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	103		%	06/18/13	R/J	70 - 130 %
% Bromofluorobenzene	88		%	06/18/13	R/J	70 - 130 %
% Toluene-d8	100		%	06/18/13	R/J	70 - 130 %

Project ID: ARB - HERTEL - SNU
Client ID: TP8-6413

Phoenix I.D.: BD91852

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatile Library Search Top 10	Completed			06/19/13	R/J		

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Biphenyl	ND	270	ug/Kg	06/15/13	DD	SW 8270	
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dichlorophenol	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dimethylphenol	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrophenol	ND	620	ug/Kg	06/15/13	DD	SW 8270	
2,4-Dinitrotoluene	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2,6-Dinitrotoluene	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2-Chloronaphthalene	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2-Chlorophenol	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2-Methylnaphthalene	280	270	ug/Kg	06/15/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/15/13	DD	SW 8270	
2-Nitroaniline	ND	620	ug/Kg	06/15/13	DD	SW 8270	
2-Nitrophenol	ND	270	ug/Kg	06/15/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	06/15/13	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	470	ug/Kg	06/15/13	DD	SW 8270	
3-Nitroaniline	ND	620	ug/Kg	06/15/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	06/15/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	390	ug/Kg	06/15/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/15/13	DD	SW 8270	
4-Chloroaniline	ND	270	ug/Kg	06/15/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/15/13	DD	SW 8270	
4-Nitroaniline	ND	620	ug/Kg	06/15/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthene	ND	270	ug/Kg	06/15/13	DD	SW 8270	
Acenaphthylene	ND	270	ug/Kg	06/15/13	DD	SW 8270	
Acetophenone	ND	270	ug/Kg	06/15/13	DD	SW 8270	
Anthracene	570	270	ug/Kg	06/15/13	DD	SW 8270	
Atrazine	ND	270	ug/Kg	06/15/13	DD	SW 8270	
Benz(a)anthracene	11000	270	ug/Kg	06/15/13	DD	SW 8270	
Benzaldehyde	ND	270	ug/Kg	06/15/13	DD	SW 8270	
Benzo(a)pyrene	12000	270	ug/Kg	06/15/13	DD	SW 8270	
Benzo(b)fluoranthene	23000	270	ug/Kg	06/15/13	DD	SW 8270	
Benzo(ghi)perylene	9300	270	ug/Kg	06/15/13	DD	SW 8270	
Benzo(k)fluoranthene	3200	270	ug/Kg	06/15/13	DD	SW 8270	
Benzyl butyl phthalate	ND	270	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	390	ug/Kg	06/15/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/15/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/15/13	DD	SW 8270	
Caprolactam	ND	270	ug/Kg	06/15/13	DD	SW 8270	
Carbazole	ND	1100	ug/Kg	06/15/13	DD	SW 8270	
Chrysene	15000	270	ug/Kg	06/15/13	DD	SW 8270	
Dibenz(a,h)anthracene	3100	270	ug/Kg	06/15/13	DD	SW 8270	
Dibenzofuran	ND	270	ug/Kg	06/15/13	DD	SW 8270	

Project ID: ARB - HERTEL - SNU
Client ID: TP8-6413

Phoenix I.D.: BD91852

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Diethyl phthalate	ND	270	ug/Kg	06/15/13	DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	06/15/13	DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	06/15/13	DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	06/15/13	DD	SW 8270
Fluoranthene	11000	270	ug/Kg	06/15/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	06/15/13	DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	06/15/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/15/13	DD	SW 8270
Hexachloroethane	ND	270	ug/Kg	06/15/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	8700	270	ug/Kg	06/15/13	DD	SW 8270
Isophorone	ND	270	ug/Kg	06/15/13	DD	SW 8270
Naphthalene	290	270	ug/Kg	06/15/13	DD	SW 8270
Nitrobenzene	ND	270	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodimethylamine	ND	390	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/15/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	390	ug/Kg	06/15/13	DD	SW 8270
Pentachlorophenol	ND	390	ug/Kg	06/15/13	DD	SW 8270
Phenanthrene	2400	270	ug/Kg	06/15/13	DD	SW 8270
Phenol	ND	270	ug/Kg	06/15/13	DD	SW 8270
Pyrene	9700	270	ug/Kg	06/15/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	84		%	06/15/13	DD	30 - 130 %
% 2-Fluorobiphenyl	70		%	06/15/13	DD	30 - 130 %
% 2-Fluorophenol	59		%	06/15/13	DD	30 - 130 %
% Nitrobenzene-d5	71		%	06/15/13	DD	30 - 130 %
% Phenol-d5	67		%	06/15/13	DD	30 - 130 %
% Terphenyl-d14	90		%	06/15/13	DD	30 - 130 %
SVOA Library Search Top 15	Completed			06/17/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP1-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91845

Sample wt/vol: 8.93 (g/mL) g

Lab File ID: 0617L18.D

Level: (low/med) Meth

Date Received: 06/14/13

% Moisture: not dec. 11

Date Analyzed: 06/17/13

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 50

Soil Extract Volume: 10000 (uL)

Soil Aliquot Vol (uL): 100

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
TP2-6413

Lab Name: Phoenix Environmental Labs
Client: AFI-ENV
Lab Code: Phoenix
Case No.:
SAS No.:
SDG No.: GBD91845
Matrix:(soil/water) SOIL
Lab Sample ID: BD91846
Sample wt/vol: 10.86 (g/mL) g
Lab File ID: 0617L19.D
Level: (low/med) Meth
Date Received: 06/14/13
% Moisture: not dec. 11
Date Analyzed: 06/17/13
GC Column: rtx-vms ID: 0.18 (mm)
Dilution Factor: 50
Soil Extract Volume: 10000 (uL)
Soil Aliquot Vol (uL): 100
CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg
Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP3-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91847

Sample wt/vol: 7.95 (g/mL) g

Lab File ID: 0617L21.D

Level: (low/med) Meth

Date Received: 06/14/13

% Moisture: not dec. 8

Date Analyzed: 06/18/13

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 42

Soil Extract Volume: 10000 (uL)

Soil Aliquot Vol (uL): 119

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown	0.994	12000	JN
000142-82-5	Heptane	3.018	1000	JN
002453-00-1	Cyclopentane, 1,3-dimethyl-	3.578	8400	JN
000592-27-8	Heptane, 2-methyl-	3.682	30000	JN
000583-57-3	Cyclohexane, 1,2-dimethyl-	3.902	10000	JN
000111-65-9	Octane	4.007	50000	JN
002213-23-2	Heptane, 2,4-dimethyl-	4.661	310	JN
000124-18-5	Decane	5.900	290	JN

FORM I VOA-TIC

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP4-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91848

Sample wt/vol: 3.01 (g/mL) g

Lab File ID: 0617L24.D

Level: (low/med) Meth

Date Received: 06/14/13

% Moisture: not dec. 22

Date Analyzed: 06/18/13

GC Column: rtx-vms

ID: 0.18 (mm)

Dilution Factor: 25

Soil Extract Volume: 10000 (uL)

Soil Aliquot Vol (uL): 200

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000287-92-3	Cyclopentane	1.910	1200	JN

FORM I VOA-TIC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
TP5-6413

Lab Name: Phoenix Environmental Labs
Client: AFI-ENV

Lab Code: Phoenix
Case No.:
SAS No.:
SDG No.: GBD91845

Matrix:(soil/water) SOIL
Lab Sample ID: BD91849

Sample wt/vol: 10.86 (g/mL) g
Lab File ID: 0617L27.D

Level: (low/med) Meth
Date Received: 06/14/13

% Moisture: not dec. 16
Date Analyzed: 06/18/13

GC Column: rtx-vms ID: 0.18 (mm)
Dilution Factor: 50

Soil Extract Volume: 10000 (uL)
Soil Aliquot Vol (uL): 100

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP6-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91850

Sample wt/vol: 3.05 (g/mL) g

Lab File ID: 0614L29.D

Level: (low/med) Low

Date Received: 06/14/13

% Moisture: not dec. 29

Date Analyzed: 06/15/13

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Soil Extract Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000078-78-4	Butane, 2-methyl-	1.420	86	JN
000109-66-0	Pentane	1.520	43	JN
000287-92-3	Cyclopentane	1.940	120	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP7-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91851

Sample wt/vol: 6.45 (g/mL) g

Lab File ID: 0617L29.D

Level: (low/med) Meth

Date Received: 06/14/13

% Moisture: not dec. 17

Date Analyzed: 06/18/13

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 36

Soil Extract Volume: 10000 (uL)

Soil Aliquot Vol (uL): 138.9

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000091-20-3	Naphthalene	8.200	820	JN

FORM I VOA-TIC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
TP8-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91852

Sample wt/vol: 11.04 (g/mL) g

Lab File ID: 0617L31.D

Level: (low/med) Meth

Date Received: 06/14/13

% Moisture: not dec. 15

Date Analyzed: 06/18/13

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 278

Soil Extract Volume: 10000 (uL)

Soil Aliquot Vol (uL): 18

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
TP1-6413

Lab Name: Phoenix Environmental Labs
Client: AFI-ENV

Lab Code: Phoenix
Case No.:
SAS No.:
SDG No.: GBD91845

Matrix:(soil/water) SOIL
Lab Sample ID: BD91845

Sample wt/vol: 15.36 (g/mL) g
Lab File ID: 0616_20A.D

Level: (low/med) Low
Date Received: 06/14/13

% Moisture: not dec. 11 decanted:(Y/N) NA
Date Extracted: 06/14/13

GPC Cleanup (Y/N): N pH: NA
Date Analyzed: 6/16/2013

Conc. Extract Volume: 5000 (uL)
Dilution Factor 5

Injection Volume: 2 (uL)

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I SEMIVOA-TIC

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP2-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91846

Sample wt/vol: 15.23 (g/mL) g

Lab File ID: 0614_12.D

Level: (low/med) Low

Date Received: 06/14/13

% Moisture: not dec. 11 decanted:(Y/N) NA

Date Extracted: 06/14/13

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/15/2013

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

Number TICs found: 8

CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000127-18-4	Ethene, tetrachloro-	3.170	8600	JN
	unknown	3.200	30000	JN
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.590	840	JNA
000629-59-4	Tetradecane	9.890	350	JN
000544-76-3	Hexadecane	11.600	460	JN
000629-78-7	Heptadecane	12.380	820	JN
055045-10-8	Tridecane, 6-propyl-	13.820	430	JN
000629-97-0	Docosane	14.490	390	JN

FORM I SEMIVOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP3-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91847

Sample wt/vol: 15.19 (g/mL) g

Lab File ID: 0614_13.D

Level: (low/med) Low

Date Received: 06/14/13

% Moisture: not dec. 8 decanted:(Y/N) NA

Date Extracted: 06/14/13

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/15/2013

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

Number TICs found: 13

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000127-18-4	Ethene, tetrachloro-	3.170	990	JN
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.590	1800	JN
000090-12-0	Naphthalene, 1-methyl-	9.170	300	JN
000629-62-9	Pentadecane	9.890	320	JN
000581-42-0	Naphthalene, 2,6-dimethyl-	10.190	290	JN
000544-76-3	Hexadecane	11.600	340	JN
000629-78-7	Heptadecane	12.380	380	JN
054105-67-8	Heptadecane, 2,6-dimethyl-	12.400	400	JN
055045-14-2	Tetradecane, 4-ethyl-	13.820	310	JN
000112-95-8	Eicosane	14.490	390	JN
000192-97-2	Benzo[e]pyrene	19.420	1300	JN
000191-26-4	Dibenzo[def,mno]chrysene	21.150	450	JN

FORM I SEMIVOA-TIC

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
TP4-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91848

Sample wt/vol: 15.21 (g/mL) g

Lab File ID: 0614_14.D

Level: (low/med) Low

Date Received: 06/14/13

% Moisture: not dec. 22 decanted:(Y/N) NA

Date Extracted: 06/14/13

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/15/2013

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.580	1200	JNA
000192-97-2	Benzo[e]pyrene	19.420	920	JN

FORM I SEMIVOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP5-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91849

Sample wt/vol: 15.04 (g/mL) g

Lab File ID: 0614_15.D

Level: (low/med) Low

Date Received: 06/14/13

% Moisture: not dec. 16 decanted:(Y/N) NA

Date Extracted: 06/14/13

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/15/2013

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown	3.590	1800	JN
000613-12-7	Anthracene, 2-methyl-	14.030	480	JN
	unknown	14.150	490	JN
035465-71-5	2-Phenylnaphthalene	14.490	430	JN
001705-84-6	Triphenylene, 2-methyl-	18.130	430	JN
000192-97-2	Benzo[e]pyrene	19.240	1600	JN
	unknown	19.360	1200	JN
000192-97-2	Benzo[e]pyrene	19.440	4800	JN
003343-10-0	Benz[j]aceanthrylene, 3-methyl-	19.710	730	JN
	unknown	20.360	550	JN
000215-58-7	Benzo[b]triphenylene	20.560	2400	JN
000000-00-0	DIBENZ[A,J]ANTHRACENE	20.820	1500	JN
000214-17-5	Benzo[b]chrysene	20.860	950	JN
000191-26-4	Dibenzo[def,mno]chrysene	21.170	1800	JN
	unknown	21.810	660	JN

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP6-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91850

Sample wt/vol: 15.16 (g/mL) g

Lab File ID: 0614_16.D

Level: (low/med) Low

Date Received: 06/14/13

% Moisture: not dec. 29 decanted:(Y/N) NA

Date Extracted: 06/14/13

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/15/2013

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.590	1500	JNA
000243-17-4	11H-Benzo[b]fluorene	16.050	820	JN
000082-05-3	7H-Benz[de]anthracen-7-one	16.870	400	JN
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	17.050	510	JN
001705-84-6	Triphenylene, 2-methyl-	18.120	520	JN
000192-97-2	Benzo[e]pyrene	19.240	750	JN
	unknown	19.340	530	JN
000205-99-2	Benz[e]acephenanthrylene	19.440	6200	JN
	unknown	20.360	610	JN
000215-58-7	Benzo[b]triphenylene	20.550	2300	JN
	unknown	20.810	1500	JN
	unknown	20.860	1400	JN
000191-26-4	Dibenzo[def,mno]chrysene	21.160	570	JN
	unknown	21.800	1100	JN

FORM I SEMIVOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP7-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91851

Sample wt/vol: 15.17 (g/mL) g

Lab File ID: 0616_28.D

Level: (low/med) Low

Date Received: 06/14/13

% Moisture: not dec. 17 decanted:(Y/N) NA

Date Extracted: 06/14/13

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/16/2013

Conc. Extract Volume: 1000 (uL)

Dilution Factor 10

Injection Volume: 2 (uL)

Number TICs found: 14

CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000127-18-4	Ethene, tetrachloro-	3.070	610	JN
000132-65-0	Dibenzothiophene	12.830	340	JN
000613-12-7	Anthracene, 2-methyl-	13.830	400	JN
001961-96-2	1H-Indene, 1-phenyl-	13.880	560	JN
	unknown	13.990	760	JN
035465-71-5	2-Phenylnaphthalene	14.330	460	JN
000243-17-4	11H-Benzo[b]fluorene	15.890	540	JN
	unknown	16.930	330	JN
000205-99-2	Benz[e]acephenanthrylene	19.080	700	JN
	unknown	19.210	420	JN
000205-82-3	Benzo[j]fluoranthene	19.290	2100	JN
000191-26-4	Dibenzo[def,mno]chrysene	20.390	670	JN
000214-17-5	Benzo[b]chrysene	20.660	340	JN

FORM I SEMIVOA-TIC

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TP8-6413

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD91845

Matrix:(soil/water) SOIL

Lab Sample ID: BD91852

Sample wt/vol: 15.1 (g/mL) g

Lab File ID: 0614_18.D

Level: (low/med) Low

Date Received: 06/14/13

% Moisture: not dec. 15 decanted:(Y/N) NA

Date Extracted: 06/14/13

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/15/2013

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000127-18-4	Ethene, tetrachloro-	3.160	2300	JN
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.580	1800	JNA
035465-71-5	2-Phenylnaphthalene	14.490	700	JN
	unknown	18.930	790	JN
000192-97-2	Benzo[e]pyrene	19.250	2500	JN
	unknown	19.370	750	JN
000205-99-2	Benz[e]acephenanthrylene	19.470	10000	JN
003343-10-0	Benz[j]aceanthrylene, 3-methyl-	19.710	1400	JN
	unknown	20.370	1000	JN
	unknown	20.430	760	JN
000214-17-5	Benzo[b]chrysene	20.570	3000	JN
000000-00-0	DIBENZ[A,J]ANTHRACENE	20.830	1900	JN
	unknown	20.880	3200	JN
000191-26-4	Dibenzo[def,mno]chrysene	21.190	1900	JN
	unknown	21.820	1500	JN

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

QA/QC Report

June 19, 2013

QA/QC Data

SDG I.D.: GBD91845

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 235597, QC Sample No: BD91846 (BD91846, BD91847, BD91848, BD91849, BD91850, BD91851, BD91852)													
Mercury - Soil	BRL	0.14	<0.08	NC	109	123	12.1	93.0	95.7	2.9	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 235489, QC Sample No: BD91847 (BD91845, BD91846, BD91847, BD91848, BD91849, BD91850, BD91851, BD91852)													
ICP Metals - Soil													
Arsenic	BRL	2.5	2.60	NC	94.8	95.2	0.4	90.2	88.4	2.0	75 - 125	30	
Barium	BRL	24.3	25.7	5.60	98.3	100	1.7	94.9	96.9	2.1	75 - 125	30	
Cadmium	BRL	0.74	0.95	NC	95.9	97.6	1.8	95.9	91.4	4.8	75 - 125	30	
Chromium	BRL	15.1	14.7	2.70	104	104	0.0	93.9	96.5	2.7	75 - 125	30	
Lead	BRL	31.2	19.2	47.6	98.7	99.3	0.6	87.6	89.0	1.6	75 - 125	30	r
Selenium	BRL	<1.4	<1.4	NC	77.9	78.2	0.4	101	95.7	5.4	75 - 125	30	
Silver	BRL	<0.36	<0.35	NC	94.6	97.1	2.6	93.8	92.1	1.8	75 - 125	30	
QA/QC Batch 235596, QC Sample No: BD92092 (BD91845)													
Mercury - Soil	BRL	0.11	<0.06	NC	115	111	3.5	122	98.9	20.9	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													

r = This parameter is outside laboratory rpd specified recovery limits.

QA/QC Report

June 19, 2013

QA/QC Data

SDG I.D.: GBD91845

QA/QC Batch 236112, QC Sample No: BD91439 (BD91850)

Volatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1-Trichloroethane	ND	102	106	3.8	107	108	0.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	99	100	1.0	101	103	2.0	70 - 130	30	
1,1,2-Trichloroethane	ND	102	102	0.0	100	101	1.0	70 - 130	30	
1,1-Dichloroethane	ND	104	107	2.8	109	110	0.9	70 - 130	30	
1,1-Dichloroethene	ND	97	99	2.0	119	118	0.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	109	110	0.9	100	107	6.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	119	120	0.8	112	120	6.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	103	102	1.0	95	98	3.1	70 - 130	30	
1,2-Dibromoethane	ND	102	101	1.0	100	102	2.0	70 - 130	30	
1,2-Dichlorobenzene	ND	100	99	1.0	99	100	1.0	70 - 130	30	
1,2-Dichloroethane	ND	100	99	1.0	102	102	0.0	70 - 130	30	
1,2-Dichloropropane	ND	105	105	0.0	105	105	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	107	107	0.0	104	107	2.8	70 - 130	30	
1,4-Dichlorobenzene	ND	106	107	0.9	105	106	0.9	70 - 130	30	
1,4-dioxane	ND	>150	99	NC	79	NC	NC	70 - 130	30	l
2-Hexanone	ND	97	97	0.0	89	92	3.3	70 - 130	30	
4-Methyl-2-pentanone	ND	101	101	0.0	100	102	2.0	70 - 130	30	
Acetone	ND	96	97	1.0	83	81	2.4	70 - 130	30	
Benzene	ND	102	101	1.0	106	106	0.0	70 - 130	30	
Bromochloromethane	ND	105	107	1.9	105	108	2.8	70 - 130	30	
Bromodichloromethane	ND	100	100	0.0	99	100	1.0	70 - 130	30	
Bromoform	ND	98	97	1.0	91	93	2.2	70 - 130	30	
Bromomethane	ND	98	102	4.0	88	92	4.4	70 - 130	30	
Carbon Disulfide	ND	110	113	2.7	121	124	2.4	70 - 130	30	
Carbon tetrachloride	ND	95	96	1.0	98	99	1.0	70 - 130	30	
Chlorobenzene	ND	101	101	0.0	102	101	1.0	70 - 130	30	
Chloroethane	ND	118	122	3.3	52	51	1.9	70 - 130	30	m
Chloroform	ND	104	107	2.8	109	109	0.0	70 - 130	30	
Chloromethane	ND	101	105	3.9	108	111	2.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	106	109	2.8	109	110	0.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	112	111	0.9	105	106	0.9	70 - 130	30	
Dibromochloromethane	ND	98	99	1.0	96	96	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	97	98	1.0	113	115	1.8	70 - 130	30	
Ethylbenzene	ND	100	100	0.0	104	105	1.0	70 - 130	30	
Isopropylbenzene	ND	113	114	0.9	104	104	0.0	70 - 130	30	
m&p-Xylene	ND	103	103	0.0	106	107	0.9	70 - 130	30	
Methyl ethyl ketone	ND	90	95	5.4	97	100	3.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	102	101	1.0	101	101	0.0	70 - 130	30	
Methylcyclohexane	ND	102	102	0.0	126	127	0.8	70 - 130	30	
Methylene chloride	ND	93	94	1.1	100	102	2.0	70 - 130	30	
o-Xylene	ND	103	104	1.0	105	106	0.9	70 - 130	30	

QA/QC Data

SDG I.D.: GBD91845

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Styrene	ND	104	112	7.4	105	109	3.7	70 - 130	30	
Tetrachloroethene	ND	100	100	0.0	104	102	1.9	70 - 130	30	
Toluene	ND	103	103	0.0	106	106	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	102	105	2.9	108	108	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	109	110	0.9	105	106	0.9	70 - 130	30	
Trichloroethene	ND	99	100	1.0	101	101	0.0	70 - 130	30	
Trichlorofluoromethane	ND	109	111	1.8	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	111	111	0.0	120	121	0.8	70 - 130	30	
Vinyl chloride	ND	125	129	3.1	129	130	0.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	101	100	1.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	96	101	101	0.0	102	102	0.0	70 - 130	30	
% Dibromofluoromethane	100	99	105	5.9	101	99	2.0	70 - 130	30	
% Toluene-d8	100	101	100	1.0	100	100	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 235435, QC Sample No: BD91863 (BD91845, BD91846, BD91847, BD91848, BD91849, BD91850, BD91851, BD91852)

Semivolatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1-Biphenyl	ND	74	78	5.3	44	90	68.7	30 - 130	30	r
1,2,4,5-Tetrachlorobenzene	ND	82	86	4.8	48	115	82.2	30 - 130	30	r
2,3,4,6-tetrachlorophenol	ND	80	77	3.8	37	82	75.6	30 - 130	30	r
2,4,5-Trichlorophenol	ND	94	93	1.1	45	97	73.2	30 - 130	30	r
2,4,6-Trichlorophenol	ND	89	87	2.3	42	95	77.4	30 - 130	30	r
2,4-Dichlorophenol	ND	88	88	0.0	44	97	75.2	30 - 130	30	r
2,4-Dimethylphenol	ND	57	57	0.0	23	51	75.7	30 - 130	30	m,r
2,4-Dinitrophenol	ND	<5	<5	NC	<5	<5	NC	30 - 130	30	l,m
2,4-Dinitrotoluene	ND	88	89	1.1	46	81	55.1	30 - 130	30	r
2,6-Dinitrotoluene	ND	88	91	3.4	45	85	61.5	30 - 130	30	r
2-Chloronaphthalene	ND	75	77	2.6	41	92	76.7	30 - 130	30	r
2-Chlorophenol	ND	84	88	4.7	42	85	67.7	30 - 130	30	r
2-Methylnaphthalene	ND	80	83	3.7	42	109	88.7	30 - 130	30	r
2-Methylphenol (o-cresol)	ND	79	84	6.1	42	87	69.8	30 - 130	30	r
2-Nitroaniline	ND	>150	>150	NC	70	142	67.9	30 - 130	30	l,m,r
2-Nitrophenol	ND	92	89	3.3	40	74	59.6	30 - 130	30	r
3&4-Methylphenol (m&p-cresol)	ND	95	97	2.1	37	76	69.0	30 - 130	30	r
3,3'-Dichlorobenzidine	ND	145	>150	NC	28	54	63.4	30 - 130	30	l,m,r
3-Nitroaniline	ND	124	131	5.5	51	98	63.1	30 - 130	30	l,r
4,6-Dinitro-2-methylphenol	ND	43	17	86.7	<5	8.7	NC	30 - 130	30	l,m,r
4-Bromophenyl phenyl ether	ND	86	90	4.5	44	94	72.5	30 - 130	30	r
4-Chloro-3-methylphenol	ND	95	95	0.0	40	101	86.5	30 - 130	30	r
4-Chloroaniline	ND	66	71	7.3	21	34	47.3	30 - 130	30	m,r
4-Chlorophenyl phenyl ether	ND	97	101	4.0	43	100	79.7	30 - 130	30	r
4-Nitroaniline	ND	94	94	0.0	41	93	77.6	30 - 130	30	r
4-Nitrophenol	ND	109	105	3.7	32	76	81.5	30 - 130	30	r
Acenaphthene	ND	84	87	3.5	47	91	63.8	30 - 130	30	r
Acenaphthylene	ND	82	84	2.4	13	65	133.3	30 - 130	30	m,r
Acetophenone	ND	96	100	4.1	44	88	66.7	30 - 130	30	r
Anthracene	ND	84	86	2.4	NC	51	NC	30 - 130	30	
Atrazine	ND	84	88	4.7	43	72	50.4	30 - 130	30	r
Benz(a)anthracene	ND	82	85	3.6	NC	NC	NC	30 - 130	30	
Benzaldehyde	ND	>150	>150	NC	78	137	54.9	30 - 130	30	l,m,r
Benzo(a)pyrene	ND	77	80	3.8	NC	NC	NC	30 - 130	30	

QA/QC Data

SDG I.D.: GBD91845

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzo(b)fluoranthene	ND	88	94	6.6	NC	NC	NC	30 - 130	30	
Benzo(ghi)perylene	ND	81	84	3.6	NC	NC	NC	30 - 130	30	
Benzo(k)fluoranthene	ND	86	83	3.6	NC	37	NC	30 - 130	30	
Benzyl butyl phthalate	ND	89	87	2.3	48	109	77.7	30 - 130	30	r
Bis(2-chloroethoxy)methane	ND	84	86	2.4	45	88	64.7	30 - 130	30	r
Bis(2-chloroethyl)ether	ND	78	81	3.8	42	92	74.6	30 - 130	30	r
Bis(2-chloroisopropyl)ether	ND	79	85	7.3	39	76	64.3	30 - 130	30	r
Bis(2-ethylhexyl)phthalate	ND	99	101	2.0	47	85	57.6	30 - 130	30	r
Caprolactam	ND	87	87	0.0	41	94	78.5	30 - 130	30	r
Carbazole	ND	99	104	4.9	39	88	77.2	30 - 130	30	r
Chrysene	ND	93	96	3.2	NC	NC	NC	30 - 130	30	
Dibenz(a,h)anthracene	ND	83	88	5.8	15	28	60.5	30 - 130	30	m,r
Dibenzofuran	ND	83	85	2.4	34	90	90.3	30 - 130	30	r
Diethyl phthalate	ND	90	93	3.3	42	96	78.3	30 - 130	30	r
Dimethylphthalate	ND	89	92	3.3	49	94	62.9	30 - 130	30	r
Di-n-butylphthalate	ND	85	91	6.8	47	75	45.9	30 - 130	30	r
Di-n-octylphthalate	ND	96	99	3.1	45	91	67.6	30 - 130	30	r
Fluoranthene	ND	84	89	5.8	NC	NC	NC	30 - 130	30	
Fluorene	ND	88	91	3.4	24	93	117.9	30 - 130	30	m,r
Hexachlorobenzene	ND	92	96	4.3	43	83	63.5	30 - 130	30	r
Hexachlorobutadiene	ND	84	87	3.5	48	96	66.7	30 - 130	30	r
Hexachlorocyclopentadiene	ND	80	80	0.0	<5	<5	NC	30 - 130	30	m
Hexachloroethane	ND	83	87	4.7	37	59	45.8	30 - 130	30	r
Indeno(1,2,3-cd)pyrene	ND	82	87	5.9	NC	NC	NC	30 - 130	30	
Isophorone	ND	87	89	2.3	42	90	72.7	30 - 130	30	r
Naphthalene	ND	81	85	4.8	36	88	83.9	30 - 130	30	r
Nitrobenzene	ND	87	90	3.4	41	83	67.7	30 - 130	30	r
N-Nitrosodimethylamine	ND	71	74	4.1	35	73	70.4	30 - 130	30	r
N-Nitrosodi-n-propylamine	ND	89	89	0.0	40	80	66.7	30 - 130	30	r
N-Nitrosodiphenylamine	ND	94	97	3.1	48	98	68.5	30 - 130	30	r
Pentachlorophenol	ND	52	33	44.7	18	52	97.1	30 - 130	30	m,r
Phenanthrene	ND	85	89	4.6	NC	NC	NC	30 - 130	30	
Phenol	ND	82	85	3.6	43	91	71.6	30 - 130	30	r
Pyrene	ND	82	89	8.2	NC	NC	NC	30 - 130	30	
% 2,4,6-Tribromophenol	90	95	93	2.1	43	83	63.5	30 - 130	30	r
% 2-Fluorobiphenyl	77	81	84	3.6	49	89	58.0	30 - 130	30	r
% 2-Fluorophenol	69	76	78	2.6	42	83	65.6	30 - 130	30	r
% Nitrobenzene-d5	77	86	87	1.2	45	81	57.1	30 - 130	30	r
% Phenol-d5	74	75	77	2.6	42	84	66.7	30 - 130	30	r
% Terphenyl-d14	78	83	89	7.0	70	90	25.0	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 236246, QC Sample No: BD92533 (BD91846 (2083X) , BD91851 (125X) , BD91852 (278X))

Volatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Tetrachloroethene	ND	98	100	2.0	97	96	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

QA/QC Data

SDG I.D.: GBD91845

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 19, 2013

Wednesday, June 19, 2013

Requested Criteria: 375RRS

State: NY

Sample Criteria Exceedences Report

GBD91845 - AFI-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD91845	$8270_TCLR	Pentachlorophenol	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	9100	6700	6700	ug/Kg
BD91845	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	6400	1000	1000	ug/Kg
BD91845	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	6400	3900	3900	ug/Kg
BD91845	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	6400	1000	1000	ug/Kg
BD91845	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	6400	3900	3900	ug/Kg
BD91845	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	6400	1000	1000	ug/Kg
BD91845	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	6400	500	500	ug/Kg
BD91845	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	6400	330	330	ug/Kg
BD91846	$8260_TCL_SM	Tetrachloroethene	NY / 375-6.8 Volatiles / Residential Restricted	140000	11000	19000	19000	ug/kg
BD91846	BA-SM	Barium	NY / 375-6.8 Metals / Residential Restricted	454	0.40	400	400	mg/Kg
BD91847	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1900	250	1000	1000	ug/Kg
BD91847	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	250	1000	1000	ug/Kg
BD91847	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	250	500	500	ug/Kg
BD91848	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	300	1000	1000	ug/Kg
BD91848	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	650	300	500	500	ug/Kg
BD91849	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	4000	280	1000	1000	ug/Kg
BD91849	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	4800	280	3900	3900	ug/Kg
BD91849	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	8400	280	1000	1000	ug/Kg
BD91849	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	5300	280	1000	1000	ug/Kg
BD91849	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4100	280	500	500	ug/Kg
BD91849	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	280	330	330	ug/Kg
BD91850	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3900	330	1000	1000	ug/Kg
BD91850	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	7200	330	3900	3900	ug/Kg
BD91850	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	11000	330	1000	1000	ug/Kg
BD91850	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4400	330	1000	1000	ug/Kg
BD91850	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3400	330	500	500	ug/Kg
BD91850	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1600	330	330	330	ug/Kg
BD91851	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	24000	2800	1000	1000	ug/Kg
BD91851	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	29000	2800	3900	3900	ug/Kg
BD91851	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	37000	2800	1000	1000	ug/Kg
BD91851	$8270_TCLR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	8900	2800	3900	3900	ug/Kg
BD91851	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	23000	2800	1000	1000	ug/Kg
BD91851	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	13000	2800	500	500	ug/Kg
BD91851	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2800	330	330	ug/Kg
BD91852	$8260_TCL_SM	Tetrachloroethene	NY / 375-6.8 Volatiles / Residential Restricted	24000	1500	19000	19000	ug/kg
BD91852	$8270_TCLR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	11000	270	1000	1000	ug/Kg

Sample Criteria Exceedences Report

GBD91845 - AFI-ENV

Requested Criteria: 375RRS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD91852	$8270_TCLR	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	15000	270	3900	3900	ug/Kg
BD91852	$8270_TCLR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	23000	270	1000	1000	ug/Kg
BD91852	$8270_TCLR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	12000	270	1000	1000	ug/Kg
BD91852	$8270_TCLR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	8700	270	500	500	ug/Kg
BD91852	$8270_TCLR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3100	270	330	330	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

NY Temperature Narration

June 19, 2013

SDG I.D.: GBD91845

The samples in this delivery group were received at 11°C.
(Note acceptance criteria is above freezing up to 6°C)

PHOENIX
Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

11°w/c +ice Temp Pg 1 of 1

Data Delivery:
☐ Fax #:
☑ Email: Apbills diog@roadrunner.com

Customer: AFI Environmental
Address: PO Box 4049
Niagara Falls, NY 14304

Project: ARB-Hertel-Env
Report to: William Hedzerak
Invoice to: 1100 Shetler Ave

Project P.O: ARB-Hertel-Env
Phone #: 716-283-7645
Fax #: 716-283-2858

Client Sample - Information - Identification

Sampler's Signature Date: 6-4-13

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	TCL VOCs	TCL SVOCs	RCRA Metals	Soil VOA [✓] Methanol [ ] S. Bisulfate [✓] H2O	GL Soil container ( ) oz	GL Soil container (8) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
91845	TP1-6413	S	6-4-13	9:00	X	X	X	3		1							
91846	TP2 6413	S	6-4-13	9:38	X	X	X	3		1							
91847	TP3-6413	S	6-4-13	14:27	X	X	X	3		1							
91848*	TP4-6413	S	6-4-13	13:56	X	X	X	3		1							
① 91849*	TP5-6413	S	6-4-13	15:25	X	X	X	3		1							
② 91850*	TP6-6413	S	6-4-13	15:31	X	X	X	3		1							
91851*	TP7-6413	S	6-4-13	15:37	X	X	X	3		1							
91852*	TP8-6413	S	6-4-13	15:35	X	X	X	3		1							

Relinquished by:	Accepted by:	Date:	Time:
		6-13-13	4:30
FedEx	CParadise	6/14/13	11:10

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ 5 Days
☐ 10 Days
☐ Other

* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☐ TOGS GA GW
☐ CP-51 Soil
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☑ NY375 Restricted Non-Residential Soil

Data Format
☐ Phoenix Std Report
☐ Excel
☐ PDF
☐ GIS/Key
☑ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other

Data Package
☐ NJ Reduced Deliv. *
☐ NY Enhanced (ASP B) *
☐ Other

State where samples were collected: NY

Comments, Special Requirements or Regulations:

* 3day rush per client 6/14/13 LC

① rcvd one low level voa broken CP

② rcvd soil jar broken CP transferred @ lab.

PHOENIX
Environmental Laboratories, Inc.

Monday, June 17, 2013

Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Project ID: ALZB-HENTEL ENV
Sample ID#s: BD87628 - BD87631

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller

Laboratory Director

NELAC - #NY11301	**NJ Lab Registration #CT-003**
CT Lab Registration #PH-0618	**NY Lab Registration #11301**
MA Lab Registration #MA-CT-007	**PA Lab Registration #68-03530**
ME Lab Registration #CT-007	**RI Lab Registration #63**
NH Lab Registration #213693-A,B	**VT Lab Registration #VT11301**

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PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Report

June 17, 2013

FOR: Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/05/13	12:30
Location Code:	AFI-ENV	Received by:	SW	06/06/13	11:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	ALZB-HATEL ENV				

Laboratory Data

SDG ID: GBD87628
Phoenix ID: BD87628

Project ID: ALZB-HENTEL ENV
Client ID: S+W BEDDY-0605B

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Percent Solid	100		1		%	06/05/13		E160.3
1,4-dioxane								
1,4-dioxane	ND		75	75	ug/kg	06/11/13	R/J	SW8260B
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	103				%	06/11/13	R/J	70 - 121 %
% Bromofluorobenzene	90				%	06/11/13	R/J	59 - 113 %
% Toluene-d8	97				%	06/11/13	R/J	84 - 138 %
Volatiles								
1,1,1-Trichloroethane	ND		3.8	0.75	ug/Kg	06/11/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND		3.8	0.53	ug/Kg	06/11/13	R/J	SW8260
1,1,2-Trichloroethane	ND		3.8	0.37	ug/Kg	06/11/13	R/J	SW8260
1,1-Dichloroethane	ND		3.8	0.74	ug/Kg	06/11/13	R/J	SW8260
1,1-Dichloroethene	ND		3.8	0.82	ug/Kg	06/11/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND		3.8	0.50	ug/Kg	06/11/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND		3.8	0.44	ug/Kg	06/11/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND		3.8	1.0	ug/Kg	06/11/13	R/J	SW8260
1,2-Dibromoethane	ND		3.8	1.0	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichlorobenzene	ND		3.8	0.41	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichloroethane	ND		3.8	0.33	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichloropropane	ND		3.8	0.53	ug/Kg	06/11/13	R/J	SW8260
1,3-Dichlorobenzene	ND		3.8	0.56	ug/Kg	06/11/13	R/J	SW8260
1,4-Dichlorobenzene	ND		3.8	0.59	ug/Kg	06/11/13	R/J	SW8260
2-Hexanone	ND		19	1.7	ug/Kg	06/11/13	R/J	SW8260
4-Methyl-2-pentanone	ND		19	0.89	ug/Kg	06/11/13	R/J	SW8260
Acetone	20	JS	38	3.7	ug/Kg	06/11/13	R/J	SW8260
Benzene	ND		3.8	0.74	ug/Kg	06/11/13	R/J	SW8260
Bromochloromethane	ND		3.8	0.55	ug/Kg	06/11/13	R/J	SW8260

Project ID: ALZB-HENTEL ENV
Client ID: S+W BEDDY-0605B

Phoenix I.D.: BD87628

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Bromodichloromethane	ND		3.8	0.47	ug/Kg	06/11/13	R/J	SW8260
Bromoform	ND		3.8	0.53	ug/Kg	06/11/13	R/J	SW8260
Bromomethane	ND		3.8	2.9	ug/Kg	06/11/13	R/J	SW8260
Carbon Disulfide	ND		3.8	0.61	ug/Kg	06/11/13	R/J	SW8260
Carbon tetrachloride	ND		3.8	0.44	ug/Kg	06/11/13	R/J	SW8260
Chlorobenzene	ND		3.8	0.56	ug/Kg	06/11/13	R/J	SW8260
Chloroethane	ND		3.8	0.88	ug/Kg	06/11/13	R/J	SW8260
Chloroform	ND		3.8	0.68	ug/Kg	06/11/13	R/J	SW8260
Chloromethane	ND		3.8	2.0	ug/Kg	06/11/13	R/J	SW8260
cis-1,2-Dichloroethene	ND		3.8	0.82	ug/Kg	06/11/13	R/J	SW8260
cis-1,3-Dichloropropene	ND		3.8	0.41	ug/Kg	06/11/13	R/J	SW8260 1
Cyclohexane	ND		3.8	3.8	ug/Kg	06/11/13	R/J	SW8260
Dibromochloromethane	ND		3.8	0.42	ug/Kg	06/11/13	R/J	SW8260
Dichlorodifluoromethane	ND		3.8	1.0	ug/Kg	06/11/13	R/J	SW8260
Ethylbenzene	ND		3.8	0.68	ug/Kg	06/11/13	R/J	SW8260
Isopropylbenzene	ND		3.8	0.72	ug/Kg	06/11/13	R/J	SW8260
m&p-Xylene	ND		3.8	1.5	ug/Kg	06/11/13	R/J	SW8260
Methyl ethyl ketone	ND		23	3.3	ug/Kg	06/11/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND		7.5	1.0	ug/Kg	06/11/13	R/J	SW8260
Methylacetate	ND		3.8	3.8	ug/Kg	06/11/13	R/J	SW8260
Methylcyclohexane	ND		3.8	3.8	ug/Kg	06/11/13	R/J	SW8260
Methylene chloride	2.0	JS	3.8	0.62	ug/Kg	06/11/13	R/J	SW8260
o-Xylene	ND		3.8	1.4	ug/Kg	06/11/13	R/J	SW8260
Styrene	ND		3.8	1.1	ug/Kg	06/11/13	R/J	SW8260
Tetrachloroethene	ND		3.8	0.79	ug/Kg	06/11/13	R/J	SW8260
Toluene	ND		3.8	0.59	ug/Kg	06/11/13	R/J	SW8260
Total Xylenes	ND		3.8	1.5	ug/Kg	06/11/13	R/J	SW8260
trans-1,2-Dichloroethene	ND		3.8	0.75	ug/Kg	06/11/13	R/J	SW8260
trans-1,3-Dichloropropene	ND		3.8	0.77	ug/Kg	06/11/13	R/J	SW8260
Trichloroethene	ND		3.8	0.80	ug/Kg	06/11/13	R/J	SW8260
Trichlorofluoromethane	ND		3.8	0.83	ug/Kg	06/11/13	R/J	SW8260
Trichlorotrifluoroethane	ND		3.8	0.59	ug/Kg	06/11/13	R/J	SW8260
Vinyl chloride	ND		3.8	1.2	ug/Kg	06/11/13	R/J	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	103				%	06/11/13	R/J	70 - 121 %
% Bromofluorobenzene	90				%	06/11/13	R/J	59 - 113 %
% Dibromofluoromethane	100				%	06/11/13	R/J	70 - 130 %
% Toluene-d8	97				%	06/11/13	R/J	84 - 138 %
Volatile Library Search Top 10	Completed					06/12/13	JH	

Project ID: ALZB-HENTEL ENV
Client ID: S+W BEDDY-0605B

Phoenix I.D.: BD87628

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 17, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

June 17, 2013

FOR: Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/05/13	12:30
Location Code:	AFI-ENV	Received by:	SW	06/06/13	11:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	ALZB-HATEL ENV				

Laboratory Data

SDG ID: GBD87628
Phoenix ID: BD87629

Project ID: ALZB-HENTEL ENV
Client ID: DUP-060513

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Percent Solid	100		1		%	06/05/13		E160.3

1,4-dioxane

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,4-dioxane	ND		84	84	ug/kg	06/11/13	R/J	SW8260B
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	103				%	06/11/13	R/J	70 - 121 %
% Bromofluorobenzene	90				%	06/11/13	R/J	59 - 113 %
% Toluene-d8	97				%	06/11/13	R/J	84 - 138 %

Volatiles

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1,1-Trichloroethane	ND		4.2	0.84	ug/Kg	06/11/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND		4.2	0.60	ug/Kg	06/11/13	R/J	SW8260
1,1,2-Trichloroethane	ND		4.2	0.41	ug/Kg	06/11/13	R/J	SW8260
1,1-Dichloroethane	ND		4.2	0.83	ug/Kg	06/11/13	R/J	SW8260
1,1-Dichloroethene	ND		4.2	0.92	ug/Kg	06/11/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND		4.2	0.56	ug/Kg	06/11/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND		4.2	0.50	ug/Kg	06/11/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND		4.2	1.1	ug/Kg	06/11/13	R/J	SW8260
1,2-Dibromoethane	ND		4.2	1.1	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichlorobenzene	ND		4.2	0.46	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichloroethane	ND		4.2	0.37	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichloropropane	ND		4.2	0.60	ug/Kg	06/11/13	R/J	SW8260
1,3-Dichlorobenzene	ND		4.2	0.62	ug/Kg	06/11/13	R/J	SW8260
1,4-Dichlorobenzene	ND		4.2	0.66	ug/Kg	06/11/13	R/J	SW8260
2-Hexanone	ND		21	1.9	ug/Kg	06/11/13	R/J	SW8260
4-Methyl-2-pentanone	ND		21	1.0	ug/Kg	06/11/13	R/J	SW8260
Acetone	82	S	42	4.2	ug/Kg	06/11/13	R/J	SW8260
Benzene	ND		4.2	0.83	ug/Kg	06/11/13	R/J	SW8260
Bromochloromethane	ND		4.2	0.61	ug/Kg	06/11/13	R/J	SW8260

Project ID: ALZB-HENTEL ENV
Client ID: DUP-060513

Phoenix I.D.: BD87629

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Bromodichloromethane	ND		4.2	0.52	ug/Kg	06/11/13	R/J	SW8260	
Bromoform	ND		4.2	0.59	ug/Kg	06/11/13	R/J	SW8260	
Bromomethane	ND		4.2	3.2	ug/Kg	06/11/13	R/J	SW8260	
Carbon Disulfide	ND		4.2	0.68	ug/Kg	06/11/13	R/J	SW8260	
Carbon tetrachloride	ND		4.2	0.49	ug/Kg	06/11/13	R/J	SW8260	
Chlorobenzene	ND		4.2	0.62	ug/Kg	06/11/13	R/J	SW8260	
Chloroethane	ND		4.2	0.98	ug/Kg	06/11/13	R/J	SW8260	
Chloroform	ND		4.2	0.76	ug/Kg	06/11/13	R/J	SW8260	
Chloromethane	ND		4.2	2.2	ug/Kg	06/11/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND		4.2	0.92	ug/Kg	06/11/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND		4.2	0.45	ug/Kg	06/11/13	R/J	SW8260	1
Cyclohexane	ND		4.2	4.2	ug/Kg	06/11/13	R/J	SW8260	
Dibromochloromethane	ND		4.2	0.47	ug/Kg	06/11/13	R/J	SW8260	
Dichlorodifluoromethane	ND		4.2	1.1	ug/Kg	06/11/13	R/J	SW8260	
Ethylbenzene	ND		4.2	0.76	ug/Kg	06/11/13	R/J	SW8260	
Isopropylbenzene	ND		4.2	0.81	ug/Kg	06/11/13	R/J	SW8260	
m&p-Xylene	ND		4.2	1.7	ug/Kg	06/11/13	R/J	SW8260	
Methyl ethyl ketone	ND		25	3.6	ug/Kg	06/11/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND		8.4	1.2	ug/Kg	06/11/13	R/J	SW8260	
Methylacetate	ND		4.2	4.2	ug/Kg	06/11/13	R/J	SW8260	
Methylcyclohexane	ND		4.2	4.2	ug/Kg	06/11/13	R/J	SW8260	
Methylene chloride	0.92	JS	4.2	0.69	ug/Kg	06/11/13	R/J	SW8260	
o-Xylene	ND		4.2	1.6	ug/Kg	06/11/13	R/J	SW8260	
Styrene	ND		4.2	1.2	ug/Kg	06/11/13	R/J	SW8260	
Tetrachloroethene	ND		4.2	0.88	ug/Kg	06/11/13	R/J	SW8260	
Toluene	1.5	J	4.2	0.66	ug/Kg	06/11/13	R/J	SW8260	
Total Xylenes	ND		4.2	1.7	ug/Kg	06/11/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND		4.2	0.84	ug/Kg	06/11/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND		4.2	0.86	ug/Kg	06/11/13	R/J	SW8260	
Trichloroethene	ND		4.2	0.89	ug/Kg	06/11/13	R/J	SW8260	
Trichlorofluoromethane	ND		4.2	0.93	ug/Kg	06/11/13	R/J	SW8260	
Trichlorotrifluoroethane	ND		4.2	0.66	ug/Kg	06/11/13	R/J	SW8260	
Vinyl chloride	ND		4.2	1.4	ug/Kg	06/11/13	R/J	SW8260	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	103				%	06/11/13	R/J	70 - 121 %	
% Bromofluorobenzene	90				%	06/11/13	R/J	59 - 113 %	
% Dibromofluoromethane	102				%	06/11/13	R/J	70 - 130 %	
% Toluene-d8	97				%	06/11/13	R/J	84 - 138 %	
Volatile Library Search Top 10	Completed					06/12/13	JH		

Project ID: ALZB-HENTEL ENV
Client ID: DUP-060513

Phoenix I.D.: BD87629

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 17, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Analysis Report

June 17, 2013

FOR: Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/05/13	12:30
Location Code:	AFI-ENV	Received by:	SW	06/06/13	11:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	ALZB-HATEL ENV				

Laboratory Data

SDG ID: GBD87628
Phoenix ID: BD87630

Project ID: ALZB-HENTEL ENV
Client ID: TRIP BLANK HIGH

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Percent Solid	100	1		%	06/05/13		E160.3
1,4-dioxane							
1,4-dioxane	ND	5000	5000	ug/kg	06/11/13	R/J	SW8260B
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102			%	06/11/13	R/J	70 - 121 %
% Bromofluorobenzene	92			%	06/11/13	R/J	59 - 113 %
% Toluene-d8	98			%	06/11/13	R/J	84 - 138 %
Volatiles							
1,1,1-Trichloroethane	ND	250	50	ug/Kg	06/11/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	36	ug/Kg	06/11/13	R/J	SW8260
1,1,2-Trichloroethane	ND	250	25	ug/Kg	06/11/13	R/J	SW8260
1,1-Dichloroethane	ND	250	50	ug/Kg	06/11/13	R/J	SW8260
1,1-Dichloroethene	ND	250	55	ug/Kg	06/11/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	250	34	ug/Kg	06/11/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	250	30	ug/Kg	06/11/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	67	ug/Kg	06/11/13	R/J	SW8260
1,2-Dibromoethane	ND	250	67	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichlorobenzene	ND	250	28	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichloroethane	ND	250	22	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichloropropane	ND	250	36	ug/Kg	06/11/13	R/J	SW8260
1,3-Dichlorobenzene	ND	250	37	ug/Kg	06/11/13	R/J	SW8260
1,4-Dichlorobenzene	ND	250	40	ug/Kg	06/11/13	R/J	SW8260
2-Hexanone	ND	1300	110	ug/Kg	06/11/13	R/J	SW8260
4-Methyl-2-pentanone	ND	1300	60	ug/Kg	06/11/13	R/J	SW8260
Acetone	ND	2500	250	ug/Kg	06/11/13	R/J	SW8260
Benzene	ND	250	50	ug/Kg	06/11/13	R/J	SW8260
Bromochloromethane	ND	250	37	ug/Kg	06/11/13	R/J	SW8260

Project ID: ALZB-HENTEL ENV
Client ID: TRIP BLANK HIGH

Phoenix I.D.: BD87630

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Bromodichloromethane	ND		250	31	ug/Kg	06/11/13	R/J	SW8260
Bromoform	ND		250	35	ug/Kg	06/11/13	R/J	SW8260
Bromomethane	ND		250	190	ug/Kg	06/11/13	R/J	SW8260
Carbon Disulfide	ND		250	41	ug/Kg	06/11/13	R/J	SW8260
Carbon tetrachloride	ND		250	29	ug/Kg	06/11/13	R/J	SW8260
Chlorobenzene	ND		250	37	ug/Kg	06/11/13	R/J	SW8260
Chloroethane	ND		250	59	ug/Kg	06/11/13	R/J	SW8260
Chloroform	ND		250	46	ug/Kg	06/11/13	R/J	SW8260
Chloromethane	ND		250	130	ug/Kg	06/11/13	R/J	SW8260
cis-1,2-Dichloroethene	ND		250	55	ug/Kg	06/11/13	R/J	SW8260
cis-1,3-Dichloropropene	ND		250	27	ug/Kg	06/11/13	R/J	SW8260 1
Cyclohexane	ND		250	250	ug/Kg	06/11/13	R/J	SW8260
Dibromochloromethane	ND		250	28	ug/Kg	06/11/13	R/J	SW8260
Dichlorodifluoromethane	ND		250	67	ug/Kg	06/11/13	R/J	SW8260
Ethylbenzene	ND		250	46	ug/Kg	06/11/13	R/J	SW8260
Isopropylbenzene	ND		250	48	ug/Kg	06/11/13	R/J	SW8260
m&p-Xylene	ND		250	99	ug/Kg	06/11/13	R/J	SW8260
Methyl ethyl ketone	ND		1500	220	ug/Kg	06/11/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND		500	69	ug/Kg	06/11/13	R/J	SW8260
Methylacetate	ND		250	250	ug/Kg	06/11/13	R/J	SW8260
Methylcyclohexane	ND		250	250	ug/Kg	06/11/13	R/J	SW8260
Methylene chloride	57	JS	250	41	ug/Kg	06/11/13	R/J	SW8260
o-Xylene	ND		250	96	ug/Kg	06/11/13	R/J	SW8260
Styrene	ND		250	72	ug/Kg	06/11/13	R/J	SW8260
Tetrachloroethene	ND		250	53	ug/Kg	06/11/13	R/J	SW8260
Toluene	ND		250	40	ug/Kg	06/11/13	R/J	SW8260
Total Xylenes	ND		250	99	ug/Kg	06/11/13	R/J	SW8260
trans-1,2-Dichloroethene	ND		250	50	ug/Kg	06/11/13	R/J	SW8260
trans-1,3-Dichloropropene	ND		250	51	ug/Kg	06/11/13	R/J	SW8260
Trichloroethene	ND		250	53	ug/Kg	06/11/13	R/J	SW8260
Trichlorofluoromethane	ND		250	56	ug/Kg	06/11/13	R/J	SW8260
Trichlorotrifluoroethane	ND		250	39	ug/Kg	06/11/13	R/J	SW8260
Vinyl chloride	ND		250	81	ug/Kg	06/11/13	R/J	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	102				%	06/11/13	R/J	70 - 121 %
% Bromofluorobenzene	92				%	06/11/13	R/J	59 - 113 %
% Dibromofluoromethane	95				%	06/11/13	R/J	70 - 130 %
% Toluene-d8	98				%	06/11/13	R/J	84 - 138 %
Volatile Library Search Top 10	Completed					06/12/13	JH	

Project ID: ALZB-HENTEL ENV
Client ID: TRIP BLANK HIGH

Phoenix I.D.: BD87630

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 17, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Analysis Report

June 17, 2013

FOR: Attn: Mr. Patrick Ackerman
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/05/13	12:30
Location Code:	AFI-ENV	Received by:	SW	06/06/13	11:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	ALZB-HATEL ENV				

Laboratory Data

SDG ID: GBD87628
Phoenix ID: BD87631

Project ID: ALZB-HENTEL ENV
Client ID: TRIP BLANK LOW

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Percent Solid	100	1		%	06/05/13		E160.3
1,4-dioxane							
1,4-dioxane	ND	100	100	ug/kg	06/11/13	R/J	SW8260B
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103			%	06/11/13	R/J	70 - 121 %
% Bromofluorobenzene	93			%	06/11/13	R/J	59 - 113 %
% Toluene-d8	97			%	06/11/13	R/J	84 - 138 %
Volatiles							
1,1,1-Trichloroethane	ND	5.0	1.0	ug/Kg	06/11/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.0	0.71	ug/Kg	06/11/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.0	0.49	ug/Kg	06/11/13	R/J	SW8260
1,1-Dichloroethane	ND	5.0	0.99	ug/Kg	06/11/13	R/J	SW8260
1,1-Dichloroethene	ND	5.0	1.1	ug/Kg	06/11/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	0.67	ug/Kg	06/11/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	0.59	ug/Kg	06/11/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/Kg	06/11/13	R/J	SW8260
1,2-Dibromoethane	ND	5.0	1.3	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.0	0.55	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichloroethane	ND	5.0	0.44	ug/Kg	06/11/13	R/J	SW8260
1,2-Dichloropropane	ND	5.0	0.71	ug/Kg	06/11/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.0	0.74	ug/Kg	06/11/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.0	0.79	ug/Kg	06/11/13	R/J	SW8260
2-Hexanone	ND	25	2.3	ug/Kg	06/11/13	R/J	SW8260
4-Methyl-2-pentanone	ND	25	1.2	ug/Kg	06/11/13	R/J	SW8260
Acetone	ND	50	5.0	ug/Kg	06/11/13	R/J	SW8260
Benzene	ND	5.0	0.99	ug/Kg	06/11/13	R/J	SW8260
Bromochloromethane	ND	5.0	0.73	ug/Kg	06/11/13	R/J	SW8260

Project ID: ALZB-HENTEL ENV
Client ID: TRIP BLANK LOW

Phoenix I.D.: BD87631

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Bromodichloromethane	ND		5.0	0.62	ug/Kg	06/11/13	R/J	SW8260	
Bromoform	ND		5.0	0.70	ug/Kg	06/11/13	R/J	SW8260	
Bromomethane	ND		5.0	3.9	ug/Kg	06/11/13	R/J	SW8260	
Carbon Disulfide	ND		5.0	0.81	ug/Kg	06/11/13	R/J	SW8260	
Carbon tetrachloride	ND		5.0	0.58	ug/Kg	06/11/13	R/J	SW8260	
Chlorobenzene	ND		5.0	0.74	ug/Kg	06/11/13	R/J	SW8260	
Chloroethane	ND		5.0	1.2	ug/Kg	06/11/13	R/J	SW8260	
Chloroform	ND		5.0	0.91	ug/Kg	06/11/13	R/J	SW8260	
Chloromethane	ND		5.0	2.6	ug/Kg	06/11/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND		5.0	1.1	ug/Kg	06/11/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND		5.0	0.54	ug/Kg	06/11/13	R/J	SW8260	1
Cyclohexane	ND		5.0	5.0	ug/Kg	06/11/13	R/J	SW8260	
Dibromochloromethane	ND		5.0	0.56	ug/Kg	06/11/13	R/J	SW8260	
Dichlorodifluoromethane	ND		5.0	1.3	ug/Kg	06/11/13	R/J	SW8260	
Ethylbenzene	ND		5.0	0.91	ug/Kg	06/11/13	R/J	SW8260	
Isopropylbenzene	ND		5.0	0.96	ug/Kg	06/11/13	R/J	SW8260	
m&p-Xylene	ND		5.0	2.0	ug/Kg	06/11/13	R/J	SW8260	
Methyl ethyl ketone	ND		30	4.3	ug/Kg	06/11/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND		10	1.4	ug/Kg	06/11/13	R/J	SW8260	
Methylacetate	ND		5.0	5.0	ug/Kg	06/11/13	R/J	SW8260	
Methylcyclohexane	ND		5.0	5.0	ug/Kg	06/11/13	R/J	SW8260	
Methylene chloride	ND		5.0	0.82	ug/Kg	06/11/13	R/J	SW8260	
o-Xylene	ND		5.0	1.9	ug/Kg	06/11/13	R/J	SW8260	
Styrene	ND		5.0	1.4	ug/Kg	06/11/13	R/J	SW8260	
Tetrachloroethene	ND		5.0	1.1	ug/Kg	06/11/13	R/J	SW8260	
Toluene	0.95	J	5.0	0.79	ug/Kg	06/11/13	R/J	SW8260	
Total Xylenes	ND		5.0	2.0	ug/Kg	06/11/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND		5.0	1.0	ug/Kg	06/11/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND		5.0	1.0	ug/Kg	06/11/13	R/J	SW8260	
Trichloroethene	ND		5.0	1.1	ug/Kg	06/11/13	R/J	SW8260	
Trichlorofluoromethane	ND		5.0	1.1	ug/Kg	06/11/13	R/J	SW8260	
Trichlorotrifluoroethane	ND		5.0	0.78	ug/Kg	06/11/13	R/J	SW8260	
Vinyl chloride	ND		5.0	1.6	ug/Kg	06/11/13	R/J	SW8260	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	103				%	06/11/13	R/J	70 - 121 %	
% Bromofluorobenzene	93				%	06/11/13	R/J	59 - 113 %	
% Dibromofluoromethane	100				%	06/11/13	R/J	70 - 130 %	
% Toluene-d8	97				%	06/11/13	R/J	84 - 138 %	
Volatile Library Search Top 10	Completed					06/12/13	JH		

Project ID: ALZB-HENTEL ENV
Client ID: TRIP BLANK LOW

Phoenix I.D.: BD87631

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
June 17, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

S+W BEDDY-0605B

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD87628

Matrix:(soil/water) SOIL

Lab Sample ID: BD87628

Sample wt/vol: 6.69 (g/mL) g

Lab File ID: 0610L66.D

Level: (low/med) Low

Date Received: 06/06/13

% Moisture: not dec. 0

Date Analyzed: 06/11/13

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Soil Extract Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000109-67-1	1-Pentene	1.940	7.3	JN

FORM I VOA-TIC

CLIENT ID

DUP-060513

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD87628

Matrix:(soil/water) SOIL

Lab Sample ID: BD87629

Sample wt/vol: 5.97 (g/mL) g

Lab File ID: 0610L67.D

Level: (low/med) Low

Date Received: 06/06/13

% Moisture: not dec. 0

Date Analyzed: 06/11/13

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Soil Extract Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000287-92-3	Cyclopentane	1.940	12	JN

FORM I VOA-TIC

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TRIP BLANK HIGH

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD87628

Matrix:(soil/water) SOIL

Lab Sample ID: BD87630

Sample wt/vol: 10 (g/mL) g

Lab File ID: 0610L56.D

Level: (low/med) Meth

Date Received: 06/06/13

% Moisture: not dec. 0

Date Analyzed: 06/11/13

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 50

Soil Extract Volume: 10000 (uL)

Soil Aliquot Vol (uL): 100

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

TRIP BLANK LOW

Lab Name: Phoenix Environmental Labs

Client: AFI-ENV

Lab Code: Phoenix

Case No.:

SAS No.:

SDG No.: GBD87628

Matrix:(soil/water) SOIL

Lab Sample ID: BD87631

Sample wt/vol: 5 (g/mL) g

Lab File ID: 0610L57.D

Level: (low/med) Low

Date Received: 06/06/13

% Moisture: not dec. 0

Date Analyzed: 06/11/13

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Soil Extract Volume: 5000 (uL)

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000078-78-4	Butane, 2-methyl-	1.420	13	JN

FORM I VOA-TIC

Monday, June 17, 2013

Sample Criteria Exceedences Report

GBD87628 - AFI-ENV

Requested Criteria: 375RRS
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

June 17, 2013

SDG I.D.: GBD87628

The samples in this delivery group were received at 1°C.
(Note acceptance criteria is above freezing up to 6°C)

PHOENIX
Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

°W | C+ice Temp Pg 1 of 1

Data Delivery:
☐ Fax #:
☑ Email: Captbillsdog@roadrunner.com

Customer: AFI Environmental
Address: PO Box 4099
Niagara Falls, NY 14304

Project: A12B-Hertel Env
Report to: Bill Hertzenrater
Invoice to: 1100 Shetter Ave, Jacksonville FL

Project P.O: A12B-Hertel-Env
Phone #: 716-283-7645
Fax #: 716-283-8858

Client Sample - Information - Identification

Sampler's Signature Date: 6-5-13

Matrix Code:
DW=drinking water **WW**=wastewater **S**=soil/solid **O**=oil
GW=groundwater **SL**=sludge **A**=air **X**=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	TCL VOCs												Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle	
87628	S+WBeddy-060513	S	6-5-13	12:30	X												3										
87629	Dup-060513	S	6-5-13	12:30	X												3										
87630	TRIP BlANK-H				X												1										
87631	Trip Blank-Low																2										

Relinquished by:	Accepted by:	Date:	Time:
		6-5-13	16:00
FedEx	C Paradise	6/6/13	11:00

Comments, Special Requirements or Regulations:

Turnaround:
- ☐ 1 Day*
- ☐ 2 Days*
- ☐ 3 Days*
- ☐ 5 Days
- ☑ 10 Days
- ☐ Other

* SURCHARGE APPLIES

NJ
- ☐ Res. Criteria
- ☐ Non-Res. Criteria
- ☐ Impact to GW Soil Cleanup Criteria
- ☐ GW Criteria

NY
- ☐ TOGS GA GW
- ☐ CP-51 Soil
- ☐ NY375 Unrestricted Soil
- ☐ NY375 Residential Soil
- ☑ NY375 Restricted Non-Residential Soil

Data Format
- ☐ Phoenix Std Report
- ☐ Excel
- ☐ PDF
- ☐ GIS/Key
- ☑ EQuIS
- ☐ NJ Hazsite EDD
- ☐ NY EZ EDD (ASP)
- ☐ Other

Data Package
- ☐ NJ Reduced Deliv. *
- ☑ NY Enhanced (ASP B) *
- ☐ Other

State where samples were collected: NY

PHOENIX
Environmental Laboratories, Inc.

Wednesday, August 14, 2013

Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Project ID: A12 B-HERTEL
Sample ID#s: BF14672 - BF14684

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	9:30
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14672

Project ID: A12 B-HERTEL
Client ID: MW1-73113

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,4-dioxane								
1,4-dioxane	ND	100	100	ug/l	08/06/13	H/T	SW8260B	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	108			%	08/06/13	H/T	70 - 121 %	
% Bromofluorobenzene	85			%	08/06/13	H/T	59 - 113 %	
% Toluene-d8	103			%	08/06/13	H/T	84 - 138 %	
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2-Trichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	0.40	ug/L	08/06/13	H/T	SW8260	B
1,2,4-Trichlorobenzene	ND	1.0	0.40	ug/L	08/06/13	H/T	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	0.40	ug/L	08/06/13	H/T	SW8260	
1,2-Dibromoethane	ND	1.0	0.20	ug/L	08/06/13	H/T	SW8260	
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2-Dichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
2-Hexanone	ND	1.0	0.27	ug/L	08/06/13	H/T	SW8260	
4-Methyl-2-pentanone	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Acetone	ND	5.0	0.31	ug/L	08/06/13	H/T	SW8260	
Benzene	ND	0.70	0.25	ug/L	08/06/13	H/T	SW8260	
Bromochloromethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Bromodichloromethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Bromoform	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromomethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Carbon Disulfide	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Carbon tetrachloride	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Chlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloroform	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloromethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
cis-1,2-Dichloroethene	0.56	J	1.0	0.25	ug/L	08/06/13	H/T	SW8260
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Cyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Dibromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Dichlorodifluoromethane	ND		1.0	0.26	ug/L	08/06/13	H/T	SW8260
Ethylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Isopropylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
m&p-Xylene	ND		1.0	0.42	ug/L	08/06/13	H/T	SW8260
Methyl ethyl ketone	ND		1.0	0.50	ug/L	08/06/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	0.58	J	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Methylacetate	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Methylcyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Methylene chloride	ND		3.0	0.25	ug/L	08/06/13	H/T	SW8260
o-Xylene	ND		1.0	0.45	ug/L	08/06/13	H/T	SW8260
Styrene	ND		1.0	0.41	ug/L	08/06/13	H/T	SW8260
Tetrachloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Toluene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Total Xylenes	ND		1.0	0.87	ug/L	08/06/13	H/T	SW8260
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichloroethene	0.32	J	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichlorofluoromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Vinyl chloride	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	108				%	08/06/13	H/T	70 - 121 %
% Bromofluorobenzene	85				%	08/06/13	H/T	59 - 113 %
% Dibromofluoromethane	113				%	08/06/13	H/T	70 - 130 %
% Toluene-d8	103				%	08/06/13	H/T	84 - 138 %
Volatile Library Search Top 10	Completed					08/08/13	TC	1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	10:05
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14673

Project ID: A12 B-HERTEL
Client ID: MW2-73113

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,4-dioxane									
1,4-dioxane	ND		100	100	ug/l	08/06/13	H/T	SW8260B	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	104				%	08/06/13	H/T	70 - 121 %	
% Bromofluorobenzene	83				%	08/06/13	H/T	59 - 113 %	
% Toluene-d8	98				%	08/06/13	H/T	84 - 138 %	
Volatiles									
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260	B
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260	
1,2-Dibromo-3-chloropropane	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260	
1,2-Dibromoethane	ND		1.0	0.20	ug/L	08/06/13	H/T	SW8260	
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2-Dichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
2-Hexanone	ND		1.0	0.27	ug/L	08/06/13	H/T	SW8260	
4-Methyl-2-pentanone	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Acetone	2.6	JS	5.0	0.31	ug/L	08/06/13	H/T	SW8260	
Benzene	ND		0.70	0.25	ug/L	08/06/13	H/T	SW8260	
Bromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Bromodichloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Bromoform	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromomethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
Carbon Disulfide	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Carbon tetrachloride	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Chlorobenzene	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloroform	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloromethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
cis-1,3-Dichloropropene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Cyclohexane	ND	5.0	5.0	ug/L	08/06/13	H/T	SW8260
Dibromochloromethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	0.26	ug/L	08/06/13	H/T	SW8260
Ethylbenzene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Isopropylbenzene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
m&p-Xylene	ND	1.0	0.42	ug/L	08/06/13	H/T	SW8260
Methyl ethyl ketone	ND	1.0	0.50	ug/L	08/06/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Methylacetate	ND	5.0	5.0	ug/L	08/06/13	H/T	SW8260
Methylcyclohexane	ND	5.0	5.0	ug/L	08/06/13	H/T	SW8260
Methylene chloride	ND	3.0	0.25	ug/L	08/06/13	H/T	SW8260
o-Xylene	ND	1.0	0.45	ug/L	08/06/13	H/T	SW8260
Styrene	ND	1.0	0.41	ug/L	08/06/13	H/T	SW8260
Tetrachloroethene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Toluene	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
Total Xylenes	ND	1.0	0.87	ug/L	08/06/13	H/T	SW8260
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
trans-1,3-Dichloropropene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichloroethene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichlorofluoromethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Vinyl chloride	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104			%	08/06/13	H/T	70 - 121 %
% Bromofluorobenzene	83			%	08/06/13	H/T	59 - 113 %
% Dibromofluoromethane	103			%	08/06/13	H/T	70 - 130 %
% Toluene-d8	98			%	08/06/13	H/T	84 - 138 %
QC for Volatile	Completed				08/08/13	H/T	
MS/MSD Volatiles	Completed				08/06/13		
Volatile Library Search Top 10	Completed				08/08/13	TC	1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	9:49
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14674

Project ID: A12 B-HERTEL
Client ID: MW3-73113

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Iron, (Dissolved)	0.18	0.01	0.005	mg/L	08/03/13	LK	SW6010	
Iron	31.5	0.01	0.005	mg/L	08/03/13	LK	SW6010	
Manganese, (Dissolved)	0.327	0.005	0.001	mg/L	08/03/13	LK	SW6010	
Manganese	0.476	0.005	0.001	mg/L	08/03/13	LK	SW6010	
Hydrogen Sulfide	< 0.05	0.05	0.05	mg/L	08/02/13	GD	SM4500SH	1
Nitrite as Nitrogen	< 0.01	0.01	0.01	mg/L	08/01/13 20:14	BS/EG	300.0	
Sulfate	84.1	6.0	6	mg/L	08/01/13	BS/EG	300.0	
Filtration	Completed				08/01/13	Z/Z	0.45um Filter	
Semi-Volatile Extraction	Completed				08/01/13	I/K/D	SW3520	
Dissolved Metals Preparation	Completed				08/01/13	Z/Z	SW846-3005	
Total Metals Digestion	Completed				08/01/13	AG	SW846 - 3050	
Ethane	ND	5.0	5.0	ug/L	08/07/13	*	SW8015	S
Ethene	ND	5.0	5.0	ug/L	08/07/13	*	SW8015	S
Methane	3.73	2.2	2.2	ug/L	08/07/13	*	EPA 3C MOD	S
1,4-dioxane								
1,4-dioxane	ND	100	100	ug/l	08/06/13	H/T	SW8260B	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	104			%	08/06/13	H/T	70 - 121 %	
% Bromofluorobenzene	83			%	08/06/13	H/T	59 - 113 %	
% Toluene-d8	103			%	08/06/13	H/T	84 - 138 %	
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2-Trichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	0.40	ug/L	08/06/13	H/T	SW8260	B

Project ID: A12 B-HERTEL
Client ID: MW3-73113

Phoenix I.D.: BF14674

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260
1,2-Dibromoethane	ND		1.0	0.20	ug/L	08/06/13	H/T	SW8260
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,2-Dichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,2-Dichloropropane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
2-Hexanone	ND		1.0	0.27	ug/L	08/06/13	H/T	SW8260
4-Methyl-2-pentanone	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Acetone	ND		5.0	0.31	ug/L	08/06/13	H/T	SW8260
Benzene	ND		0.70	0.25	ug/L	08/06/13	H/T	SW8260
Bromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromodichloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromoform	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromomethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Carbon Disulfide	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Carbon tetrachloride	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Chlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloroform	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloromethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
cis-1,2-Dichloroethene	1100		200	50	ug/L	08/06/13	H/T	SW8260
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Cyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Dibromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Dichlorodifluoromethane	ND		1.0	0.26	ug/L	08/06/13	H/T	SW8260
Ethylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Isopropylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
m&p-Xylene	ND		1.0	0.42	ug/L	08/06/13	H/T	SW8260
Methyl ethyl ketone	ND		1.0	0.50	ug/L	08/06/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Methylacetate	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Methylcyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Methylene chloride	ND		3.0	0.25	ug/L	08/06/13	H/T	SW8260
o-Xylene	ND		1.0	0.45	ug/L	08/06/13	H/T	SW8260
Styrene	ND		1.0	0.41	ug/L	08/06/13	H/T	SW8260
Tetrachloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Toluene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Total Xylenes	ND		1.0	0.87	ug/L	08/06/13	H/T	SW8260
trans-1,2-Dichloroethene	0.36	J	2.0	0.25	ug/L	08/06/13	H/T	SW8260
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichlorofluoromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Vinyl chloride	18		1.0	0.25	ug/L	08/06/13	H/T	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	104				%	08/06/13	H/T	70 - 121 %
% Bromofluorobenzene	83				%	08/06/13	H/T	59 - 113 %
% Dibromofluoromethane	117				%	08/06/13	H/T	70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Toluene-d8	103			%	08/06/13	H/T	84 - 138 %
Volatile Library Search Top 10	Completed				08/08/13	TC	1
Semivolatiles							
2,3,4,6-tetrachlorophenol	ND	5.0	2.3	ug/L	08/04/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	5.0	2.7	ug/L	08/04/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
2,4-Dichlorophenol	ND	5.0	1.8	ug/L	08/04/13	DD	SW 8270
2,4-Dimethylphenol	ND	5.0	1.2	ug/L	08/04/13	DD	SW 8270
2,4-Dinitrophenol	ND	25	3.5	ug/L	08/04/13	DD	SW 8270
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	08/04/13	DD	SW 8270
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
2-Chloronaphthalene	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
2-Chlorophenol	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
2-Methylnaphthalene	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	5.0	2.4	ug/L	08/04/13	DD	SW 8270
2-Nitroaniline	ND	25	5.1	ug/L	08/04/13	DD	SW 8270
2-Nitrophenol	ND	5.0	3.2	ug/L	08/04/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	5.0	2.0	ug/L	08/04/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	10	2.4	ug/L	08/04/13	DD	SW 8270
3-Nitroaniline	ND	25	11	ug/L	08/04/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	25	5.4	ug/L	08/04/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	5.0	1.8	ug/L	08/04/13	DD	SW 8270
4-Chloroaniline	ND	10	2.3	ug/L	08/04/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	08/04/13	DD	SW 8270
4-Nitroaniline	ND	25	1.7	ug/L	08/04/13	DD	SW 8270
4-Nitrophenol	ND	25	2.3	ug/L	08/04/13	DD	SW 8270
Acenaphthene	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
Acetophenone	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Anthracene	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Benzaldehyde	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
Benzo(ghi)perylene	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	08/04/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
Caprolactam	ND	10	8.9	ug/L	08/04/13	DD	SW 8270
Carbazole	ND	25	3.8	ug/L	08/04/13	DD	SW 8270
Dibenzofuran	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
Diethyl phthalate	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Dimethylphthalate	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Di-n-butylphthalate	ND	5.0	1.3	ug/L	08/04/13	DD	SW 8270
Di-n-octylphthalate	ND	5.0	1.3	ug/L	08/04/13	DD	SW 8270
Fluoranthene	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Fluorene	ND	5.0	1.7	ug/L	08/04/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
Isophorone	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
Naphthalene	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Nitrobenzene	ND	5.0	1.8	ug/L	08/04/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	08/04/13	DD	SW 8270
Phenol	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Pyrene	ND	5.0	1.7	ug/L	08/04/13	DD	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	115			%	08/04/13	DD	19 - 122 %
% 2-Fluorobiphenyl	89			%	08/04/13	DD	30 - 115 %
% 2-Fluorophenol	65			%	08/04/13	DD	25 - 121 %
% Nitrobenzene-d5	83			%	08/04/13	DD	23 - 120 %
% Phenol-d5	60			%	08/04/13	DD	24 - 113 %
% Terphenyl-d14	112			%	08/04/13	DD	18 - 137 %
Semivolatiles							
1,1-Biphenyl	ND	0.90	0.90	ug/L	08/03/13	DD	SW 8270(SIM)
1,2,4,5-Tetrachlorobenzene	ND	2.0	2.0	ug/L	08/03/13	DD	SW 8270(SIM)
Acenaphthylene	ND	0.30	0.30	ug/L	08/03/13	DD	SW 8270(SIM)
Atrazine	ND	3.0	3.0	ug/L	08/03/13	DD	SW 8270(SIM)
Benz(a)anthracene	0.09	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Benzo(a)pyrene	0.15	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Benzo(b)fluoranthene	0.24	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Benzo(k)fluoranthene	0.1	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Bis(2-ethylhexyl)phthalate	3	2.0	2.0	ug/L	08/03/13	DD	SW 8270(SIM)
Chrysene	0.12	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Dibenz(a,h)anthracene	0.03	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Hexachlorobenzene	ND	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	08/03/13	DD	SW 8270(SIM)
Hexachloroethane	ND	3.0	3.0	ug/L	08/03/13	DD	SW 8270(SIM)
Indeno(1,2,3-cd)pyrene	0.12	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
N-Nitrosodimethylamine	ND	0.80	0.80	ug/L	08/03/13	DD	SW 8270(SIM)
Pentachlorophenol	ND	0.30	0.30	ug/L	08/03/13	DD	SW 8270(SIM)
Phenanthrene	ND	0.077	0.077	ug/L	08/03/13	DD	SW 8270(SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	115			%	08/03/13	DD	19 - 122 %
% 2-Fluorobiphenyl	89			%	08/03/13	DD	30 - 115 %
% 2-Fluorophenol	65			%	08/03/13	DD	25 - 121 %
% Nitrobenzene-d5	83			%	08/03/13	DD	23 - 120 %
% Phenol-d5	60			%	08/03/13	DD	24 - 113 %
% Terphenyl-d14	112			%	08/03/13	DD	18 - 137 %
SVOA Library Search Top 15	Completed				08/05/13	DD	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
S = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

*Methane, Ethane and Ethene analyzed by NY certified lab #11393.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	11:15
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14675

Project ID: A12 B-HERTEL
Client ID: MW4-73113

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed					08/01/13	I/K/D	SW3520	
1,4-dioxane									
1,4-dioxane	ND		100	100	ug/l	08/06/13	H/T	SW8260B	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	106				%	08/06/13	H/T	70 - 121 %	
% Bromofluorobenzene	85				%	08/06/13	H/T	59 - 113 %	
% Toluene-d8	102				%	08/06/13	H/T	84 - 138 %	
Volatiles									
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethane	0.25	J	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260	B
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260	
1,2-Dibromo-3-chloropropane	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260	
1,2-Dibromoethane	ND		1.0	0.20	ug/L	08/06/13	H/T	SW8260	
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2-Dichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
2-Hexanone	ND		1.0	0.27	ug/L	08/06/13	H/T	SW8260	
4-Methyl-2-pentanone	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Acetone	3.9	JS	5.0	0.31	ug/L	08/06/13	H/T	SW8260	
Benzene	ND		0.70	0.25	ug/L	08/06/13	H/T	SW8260	
Bromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	

Project ID: A12 B-HERTEL
Client ID: MW4-73113

Phoenix I.D.: BF14675

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Bromodichloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromoform	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromomethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Carbon Disulfide	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Carbon tetrachloride	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Chlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloroform	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloromethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	08/06/13	H/T	SW8260
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Cyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Dibromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Dichlorodifluoromethane	ND		1.0	0.26	ug/L	08/06/13	H/T	SW8260
Ethylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Isopropylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
m&p-Xylene	ND		1.0	0.42	ug/L	08/06/13	H/T	SW8260
Methyl ethyl ketone	ND		1.0	0.50	ug/L	08/06/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	0.41	J	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Methylacetate	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Methylcyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Methylene chloride	ND		3.0	0.25	ug/L	08/06/13	H/T	SW8260
o-Xylene	ND		1.0	0.45	ug/L	08/06/13	H/T	SW8260
Styrene	ND		1.0	0.41	ug/L	08/06/13	H/T	SW8260
Tetrachloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Toluene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Total Xylenes	ND		1.0	0.87	ug/L	08/06/13	H/T	SW8260
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichloroethene	0.27	J	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichlorofluoromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Vinyl chloride	4.1		1.0	0.25	ug/L	08/06/13	H/T	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	106				%	08/06/13	H/T	70 - 121 %
% Bromofluorobenzene	85				%	08/06/13	H/T	59 - 113 %
% Dibromofluoromethane	105				%	08/06/13	H/T	70 - 130 %
% Toluene-d8	102				%	08/06/13	H/T	84 - 138 %
Volatile Library Search Top 10	Completed					08/08/13	TC	1

Semivolatiles

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
2,3,4,6-tetrachlorophenol	ND		5.0	2.3	ug/L	08/04/13	DD	SW 8270
2,4,5-Trichlorophenol	ND		5.0	2.7	ug/L	08/04/13	DD	SW 8270
2,4,6-Trichlorophenol	ND		5.0	1.6	ug/L	08/04/13	DD	SW 8270
2,4-Dichlorophenol	ND		5.0	1.8	ug/L	08/04/13	DD	SW 8270
2,4-Dimethylphenol	ND		5.0	1.2	ug/L	08/04/13	DD	SW 8270
2,4-Dinitrophenol	ND		25	3.5	ug/L	08/04/13	DD	SW 8270
2,4-Dinitrotoluene	ND		5.0	2.0	ug/L	08/04/13	DD	SW 8270
2,6-Dinitrotoluene	ND		5.0	1.6	ug/L	08/04/13	DD	SW 8270

Project ID: A12 B-HERTEL
Client ID: MW4-73113

Phoenix I.D.: BF14675

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
2-Chloronaphthalene	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
2-Chlorophenol	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
2-Methylnaphthalene	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	5.0	2.4	ug/L	08/04/13	DD	SW 8270
2-Nitroaniline	ND	25	5.1	ug/L	08/04/13	DD	SW 8270
2-Nitrophenol	ND	5.0	3.2	ug/L	08/04/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	5.0	2.0	ug/L	08/04/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	10	2.4	ug/L	08/04/13	DD	SW 8270
3-Nitroaniline	ND	25	11	ug/L	08/04/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	25	5.4	ug/L	08/04/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	5.0	1.8	ug/L	08/04/13	DD	SW 8270
4-Chloroaniline	ND	10	2.3	ug/L	08/04/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	08/04/13	DD	SW 8270
4-Nitroaniline	ND	25	1.7	ug/L	08/04/13	DD	SW 8270
4-Nitrophenol	ND	25	2.3	ug/L	08/04/13	DD	SW 8270
Acenaphthene	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
Acetophenone	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Anthracene	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Benzaldehyde	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
Benzo(ghi)perylene	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	08/04/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
Caprolactam	ND	10	8.9	ug/L	08/04/13	DD	SW 8270
Carbazole	ND	25	3.8	ug/L	08/04/13	DD	SW 8270
Dibenzofuran	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
Diethyl phthalate	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Dimethylphthalate	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Di-n-butylphthalate	ND	5.0	1.3	ug/L	08/04/13	DD	SW 8270
Di-n-octylphthalate	ND	5.0	1.3	ug/L	08/04/13	DD	SW 8270
Fluoranthene	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Fluorene	ND	5.0	1.7	ug/L	08/04/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	08/04/13	DD	SW 8270
Isophorone	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
Naphthalene	ND	5.0	1.4	ug/L	08/04/13	DD	SW 8270
Nitrobenzene	ND	5.0	1.8	ug/L	08/04/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	08/04/13	DD	SW 8270
Phenol	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Pyrene	ND	5.0	1.7	ug/L	08/04/13	DD	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	108			%	08/04/13	DD	19 - 122 %
% 2-Fluorobiphenyl	89			%	08/04/13	DD	30 - 115 %
% 2-Fluorophenol	72			%	08/04/13	DD	25 - 121 %
% Nitrobenzene-d5	81			%	08/04/13	DD	23 - 120 %
% Phenol-d5	70			%	08/04/13	DD	24 - 113 %
% Terphenyl-d14	132			%	08/04/13	DD	18 - 137 %

Project ID: A12 B-HERTEL
Client ID: MW4-73113

Phoenix I.D.: BF14675

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Semivolatiles							
1,1-Biphenyl	ND	0.90	0.90	ug/L	08/03/13	DD	SW 8270(SIM)
1,2,4,5-Tetrachlorobenzene	ND	2.0	2.0	ug/L	08/03/13	DD	SW 8270(SIM)
Acenaphthylene	ND	0.30	0.30	ug/L	08/03/13	DD	SW 8270(SIM)
Atrazine	ND	3.0	3.0	ug/L	08/03/13	DD	SW 8270(SIM)
Benz(a)anthracene	0.16	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Benzo(a)pyrene	0.19	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Benzo(b)fluoranthene	0.39	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Benzo(k)fluoranthene	0.12	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Bis(2-ethylhexyl)phthalate	3.4	2.0	2.0	ug/L	08/03/13	DD	SW 8270(SIM)
Chrysene	0.22	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Dibenz(a,h)anthracene	0.06	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Hexachlorobenzene	ND	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	08/03/13	DD	SW 8270(SIM)
Hexachloroethane	ND	3.0	3.0	ug/L	08/03/13	DD	SW 8270(SIM)
Indeno(1,2,3-cd)pyrene	0.17	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
N-Nitrosodimethylamine	ND	0.80	0.80	ug/L	08/03/13	DD	SW 8270(SIM)
Pentachlorophenol	ND	0.30	0.30	ug/L	08/03/13	DD	SW 8270(SIM)
Phenanthrene	ND	0.077	0.077	ug/L	08/03/13	DD	SW 8270(SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	108			%	08/03/13	DD	19 - 122 %
% 2-Fluorobiphenyl	89			%	08/03/13	DD	30 - 115 %
% 2-Fluorophenol	72			%	08/03/13	DD	25 - 121 %
% Nitrobenzene-d5	81			%	08/03/13	DD	23 - 120 %
% Phenol-d5	70			%	08/03/13	DD	24 - 113 %
% Terphenyl-d14	132			%	08/03/13	DD	18 - 137 %
SVOA Library Search Top 15	Completed				08/05/13	DD	

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B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	11:30
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14676

Project ID: A12 B-HERTEL
Client ID: MW5-73113

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,4-dioxane							
1,4-dioxane	ND	100	100	ug/l	08/06/13	H/T	SW8260B
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	109			%	08/06/13	H/T	70 - 121 %
% Bromofluorobenzene	89			%	08/06/13	H/T	59 - 113 %
% Toluene-d8	107			%	08/06/13	H/T	84 - 138 %
Volatiles							
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
1,1,2-Trichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,1-Dichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,1-Dichloroethene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	0.40	ug/L	08/06/13	H/T	SW8260 B
1,2,4-Trichlorobenzene	ND	1.0	0.40	ug/L	08/06/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	0.40	ug/L	08/06/13	H/T	SW8260
1,2-Dibromoethane	ND	1.0	0.20	ug/L	08/06/13	H/T	SW8260
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,2-Dichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,2-Dichloropropane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260
2-Hexanone	ND	1.0	0.27	ug/L	08/06/13	H/T	SW8260
4-Methyl-2-pentanone	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Acetone	5.5 S	5.0	0.31	ug/L	08/06/13	H/T	SW8260
Benzene	ND	0.70	0.25	ug/L	08/06/13	H/T	SW8260
Bromochloromethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromodichloromethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260

Project ID: A12 B-HERTEL
Client ID: MW5-73113

Phoenix I.D.: BF14676

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Bromoform	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Bromomethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
Carbon Disulfide	0.53	J	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Carbon tetrachloride	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Chlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
Chloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
Chloroform	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
Chloromethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Cyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260	
Dibromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Dichlorodifluoromethane	ND		1.0	0.26	ug/L	08/06/13	H/T	SW8260	
Ethylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Isopropylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
m&p-Xylene	ND		1.0	0.42	ug/L	08/06/13	H/T	SW8260	
Methyl ethyl ketone	0.97	J	1.0	0.50	ug/L	08/06/13	H/T	SW8260	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Methylacetate	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260	
Methylcyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260	
Methylene chloride	ND		3.0	0.25	ug/L	08/06/13	H/T	SW8260	
o-Xylene	ND		1.0	0.45	ug/L	08/06/13	H/T	SW8260	
Styrene	ND		1.0	0.41	ug/L	08/06/13	H/T	SW8260	
Tetrachloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Toluene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
Total Xylenes	ND		1.0	0.87	ug/L	08/06/13	H/T	SW8260	
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Trichloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Vinyl chloride	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	109				%	08/06/13	H/T	70 - 121 %	
% Bromofluorobenzene	89				%	08/06/13	H/T	59 - 113 %	
% Dibromofluoromethane	103				%	08/06/13	H/T	70 - 130 %	
% Toluene-d8	107				%	08/06/13	H/T	84 - 138 %	
Volatile Library Search Top 10	Completed					08/08/13	TC		1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

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B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Elevated reporting limits for volatiles due to the foamy nature of the sample.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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NY # 11301

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	10:55
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14677

Project ID: A12 B-HERTEL
Client ID: MW6-73113

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Iron, (Dissolved)	0.03		0.01	0.005	mg/L	08/03/13	LK	SW6010	
Iron	32.4		0.01	0.005	mg/L	08/03/13	LK	SW6010	
Manganese, (Dissolved)	0.697		0.005	0.001	mg/L	08/03/13	LK	SW6010	
Manganese	1.07		0.005	0.001	mg/L	08/03/13	LK	SW6010	
Hydrogen Sulfide	< 0.05		0.05	0.05	mg/L	08/02/13	GD	SM4500SH	1
Nitrite as Nitrogen	< 0.01		0.01	0.01	mg/L	08/01/13 20:22	BS/EG	300.0	
Sulfate	10.9		3.0	3	mg/L	08/01/13	BS/EG	300.0	
Filtration	Completed					08/01/13	Z/Z	0.45um Filter	
Semi-Volatile Extraction	Completed					08/01/13	I/K/D	SW3520	
Dissolved Metals Preparation	Completed					08/01/13	Z/Z	SW846-3005	
Total Metals Digestion	Completed					08/01/13	AG	SW846 - 3050	
Ethane	8.56		5.0	5.0	ug/L	08/07/13	*	SW8015	S
Ethene	16.0		5.0	5.0	ug/L	08/07/13	*	SW8015	S
Methane	ND		2.2	2.2	ug/L	08/07/13	*	EPA 3C MOD	S
1,4-dioxane									
1,4-dioxane	ND		100	100	ug/l	08/03/13	HM	SW8260B	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	112				%	08/03/13	HM	70 - 121 %	
% Bromofluorobenzene	87				%	08/03/13	HM	59 - 113 %	
% Toluene-d8	98				%	08/03/13	HM	84 - 138 %	
Volatiles									
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260	
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260	
1,1-Dichloroethane	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260	
1,1-Dichloroethene	0.30	J	1.0	0.25	ug/L	08/03/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L	08/03/13	H/T	SW8260	B

Project ID: A12 B-HERTEL
Client ID: MW6-73113

Phoenix I.D.: BF14677

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L	08/03/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND		1.0	0.40	ug/L	08/03/13	H/T	SW8260
1,2-Dibromoethane	ND		1.0	0.20	ug/L	08/03/13	H/T	SW8260
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260
1,2-Dichloroethane	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260
1,2-Dichloropropane	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260
2-Hexanone	ND		1.0	0.27	ug/L	08/03/13	H/T	SW8260
4-Methyl-2-pentanone	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Acetone	6.9	S	5.0	0.31	ug/L	08/03/13	H/T	SW8260
Benzene	ND		0.70	0.25	ug/L	08/03/13	H/T	SW8260
Bromochloromethane	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Bromodichloromethane	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Bromoform	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Bromomethane	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260
Carbon Disulfide	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Carbon tetrachloride	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Chlorobenzene	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260
Chloroethane	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260
Chloroform	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260
Chloromethane	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260
cis-1,2-Dichloroethene	63		10	2.5	ug/L	08/06/13	H/T	SW8260
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Cyclohexane	ND		5.0	5.0	ug/L	08/03/13	H/T	SW8260
Dibromochloromethane	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Dichlorodifluoromethane	ND		1.0	0.26	ug/L	08/03/13	H/T	SW8260
Ethylbenzene	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Isopropylbenzene	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
m&p-Xylene	ND		1.0	0.42	ug/L	08/03/13	H/T	SW8260
Methyl ethyl ketone	ND		1.0	0.50	ug/L	08/03/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	0.85	J	1.0	0.25	ug/L	08/03/13	H/T	SW8260
Methylacetate	ND		5.0	5.0	ug/L	08/03/13	H/T	SW8260
Methylcyclohexane	ND		5.0	5.0	ug/L	08/03/13	H/T	SW8260
Methylene chloride	ND		3.0	0.25	ug/L	08/03/13	H/T	SW8260
o-Xylene	ND		1.0	0.45	ug/L	08/03/13	H/T	SW8260
Styrene	ND		1.0	0.41	ug/L	08/03/13	H/T	SW8260
Tetrachloroethene	9.7		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Toluene	ND		2.0	0.25	ug/L	08/03/13	H/T	SW8260
Total Xylenes	ND		1.0	0.87	ug/L	08/03/13	H/T	SW8260
trans-1,2-Dichloroethene	0.40	J	2.0	0.25	ug/L	08/03/13	H/T	SW8260
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Trichloroethene	4.3		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Trichlorofluoromethane	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	08/03/13	H/T	SW8260
Vinyl chloride	16		1.0	0.25	ug/L	08/03/13	H/T	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	112				%	08/03/13	H/T	70 - 121 %
% Bromofluorobenzene	87				%	08/03/13	H/T	59 - 113 %
% Dibromofluoromethane	105				%	08/03/13	H/T	70 - 130 %

Project ID: A12 B-HERTEL
Client ID: MW6-73113

Phoenix I.D.: BF14677

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
% Toluene-d8	98				%	08/03/13	H/T	84 - 138 %	
Volatile Library Search Top 10	Completed					08/08/13	TC		1
Semivolatiles									
2,3,4,6-tetrachlorophenol	ND		5.0	2.3	ug/L	08/04/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND		5.0	2.7	ug/L	08/04/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND		5.0	1.6	ug/L	08/04/13	DD	SW 8270	
2,4-Dichlorophenol	ND		5.0	1.8	ug/L	08/04/13	DD	SW 8270	
2,4-Dimethylphenol	ND		5.0	1.2	ug/L	08/04/13	DD	SW 8270	
2,4-Dinitrophenol	ND		25	3.5	ug/L	08/04/13	DD	SW 8270	
2,4-Dinitrotoluene	ND		5.0	2.0	ug/L	08/04/13	DD	SW 8270	
2,6-Dinitrotoluene	ND		5.0	1.6	ug/L	08/04/13	DD	SW 8270	
2-Chloronaphthalene	ND		5.0	1.4	ug/L	08/04/13	DD	SW 8270	
2-Chlorophenol	ND		5.0	1.4	ug/L	08/04/13	DD	SW 8270	
2-Methylnaphthalene	ND		5.0	1.5	ug/L	08/04/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		5.0	2.4	ug/L	08/04/13	DD	SW 8270	
2-Nitroaniline	ND		25	5.1	ug/L	08/04/13	DD	SW 8270	
2-Nitrophenol	ND		5.0	3.2	ug/L	08/04/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND		5.0	2.0	ug/L	08/04/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND		10	2.4	ug/L	08/04/13	DD	SW 8270	
3-Nitroaniline	ND		25	11	ug/L	08/04/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		25	5.4	ug/L	08/04/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		5.0	1.5	ug/L	08/04/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND		5.0	1.8	ug/L	08/04/13	DD	SW 8270	
4-Chloroaniline	ND		10	2.3	ug/L	08/04/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		5.0	1.7	ug/L	08/04/13	DD	SW 8270	
4-Nitroaniline	ND		25	1.7	ug/L	08/04/13	DD	SW 8270	
4-Nitrophenol	ND		25	2.3	ug/L	08/04/13	DD	SW 8270	
Acenaphthene	ND		5.0	1.5	ug/L	08/04/13	DD	SW 8270	
Acetophenone	ND		5.0	1.6	ug/L	08/04/13	DD	SW 8270	
Anthracene	ND		5.0	1.6	ug/L	08/04/13	DD	SW 8270	
Benzaldehyde	ND		5.0	1.5	ug/L	08/04/13	DD	SW 8270	
Benzo(ghi)perylene	3.3	J	5.0	1.6	ug/L	08/04/13	DD	SW 8270	
Benzyl butyl phthalate	ND		5.0	1.3	ug/L	08/04/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND		5.0	1.4	ug/L	08/04/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND		5.0	1.4	ug/L	08/04/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND		5.0	1.4	ug/L	08/04/13	DD	SW 8270	
Caprolactam	ND		10	8.9	ug/L	08/04/13	DD	SW 8270	
Carbazole	ND		25	3.8	ug/L	08/04/13	DD	SW 8270	
Dibenzofuran	ND		5.0	1.5	ug/L	08/04/13	DD	SW 8270	
Diethyl phthalate	ND		5.0	1.6	ug/L	08/04/13	DD	SW 8270	
Dimethylphthalate	ND		5.0	1.6	ug/L	08/04/13	DD	SW 8270	
Di-n-butylphthalate	ND		5.0	1.3	ug/L	08/04/13	DD	SW 8270	
Di-n-octylphthalate	ND		5.0	1.3	ug/L	08/04/13	DD	SW 8270	
Fluoranthene	7.4		5.0	1.6	ug/L	08/04/13	DD	SW 8270	
Fluorene	ND		5.0	1.7	ug/L	08/04/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND		5.0	1.5	ug/L	08/04/13	DD	SW 8270	
Isophorone	ND		5.0	1.4	ug/L	08/04/13	DD	SW 8270	
Naphthalene	ND		5.0	1.4	ug/L	08/04/13	DD	SW 8270	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Nitrobenzene	ND	5.0	1.8	ug/L	08/04/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	08/04/13	DD	SW 8270
Phenol	ND	5.0	1.6	ug/L	08/04/13	DD	SW 8270
Pyrene	6.2	5.0	1.7	ug/L	08/04/13	DD	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	103			%	08/04/13	DD	19 - 122 %
% 2-Fluorobiphenyl	82			%	08/04/13	DD	30 - 115 %
% 2-Fluorophenol	73			%	08/04/13	DD	25 - 121 %
% Nitrobenzene-d5	79			%	08/04/13	DD	23 - 120 %
% Phenol-d5	73			%	08/04/13	DD	24 - 113 %
% Terphenyl-d14	66			%	08/04/13	DD	18 - 137 %
Semivolatiles							
1,1-Biphenyl	ND	0.90	0.90	ug/L	08/03/13	DD	SW 8270(SIM)
1,2,4,5-Tetrachlorobenzene	ND	2.0	2.0	ug/L	08/03/13	DD	SW 8270(SIM)
Acenaphthylene	ND	0.30	0.30	ug/L	08/03/13	DD	SW 8270(SIM)
Atrazine	ND	3.0	3.0	ug/L	08/03/13	DD	SW 8270(SIM)
Benz(a)anthracene	4.2	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Benzo(a)pyrene	4.2	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Benzo(b)fluoranthene	6.5	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Benzo(k)fluoranthene	2.1	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Bis(2-ethylhexyl)phthalate	ND	2.0	2.0	ug/L	08/03/13	DD	SW 8270(SIM)
Chrysene	4.5	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Dibenz(a,h)anthracene	0.93	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Hexachlorobenzene	ND	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	08/03/13	DD	SW 8270(SIM)
Hexachloroethane	ND	3.0	3.0	ug/L	08/03/13	DD	SW 8270(SIM)
Indeno(1,2,3-cd)pyrene	2.7	0.020	0.020	ug/L	08/03/13	DD	SW 8270(SIM)
N-Nitrosodimethylamine	ND	0.80	0.80	ug/L	08/03/13	DD	SW 8270(SIM)
Pentachlorophenol	ND	0.30	0.30	ug/L	08/03/13	DD	SW 8270(SIM)
Phenanthrene	4	0.077	0.077	ug/L	08/03/13	DD	SW 8270(SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	103			%	08/03/13	DD	19 - 122 %
% 2-Fluorobiphenyl	82			%	08/03/13	DD	30 - 115 %
% 2-Fluorophenol	73			%	08/03/13	DD	25 - 121 %
% Nitrobenzene-d5	79			%	08/03/13	DD	23 - 120 %
% Phenol-d5	73			%	08/03/13	DD	24 - 113 %
% Terphenyl-d14	66			%	08/03/13	DD	18 - 137 %
SVOA Library Search Top 15	Completed				08/05/13	DD	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
S = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

*Methane, Ethane and Ethene analyzed by NY certified lab #11393.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	10:30
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14678

Project ID: A12 B-HERTEL
Client ID: MW7-73113

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Iron, (Dissolved)	0.06		0.01	0.005	mg/L	08/03/13	LK	SW6010	
Iron	16.0		0.01	0.005	mg/L	08/03/13	LK	SW6010	
Manganese, (Dissolved)	0.528		0.005	0.001	mg/L	08/03/13	LK	SW6010	
Manganese	0.596		0.005	0.001	mg/L	08/03/13	LK	SW6010	
Hydrogen Sulfide	< 0.05		0.05	0.05	mg/L	08/02/13	GD	SM4500SH	1
Nitrite as Nitrogen	< 0.01		0.01	0.01	mg/L	08/01/13 20:30	BS/EG	300.0	
Sulfate	49.2		3.0	3	mg/L	08/01/13	BS/EG	300.0	
Filtration	Completed					08/01/13	Z/Z	0.45um Filter	
Semi-Volatile Extraction	Completed					08/01/13	I/K/D	SW3520	
Dissolved Metals Preparation	Completed					08/01/13	Z/Z	SW846-3005	
Total Metals Digestion	Completed					08/01/13	AG	SW846 - 3050	
Ethane	19.8		5.0	5.0	ug/L	08/07/13	*	SW8015	S
Ethene	72.5		5.0	5.0	ug/L	08/07/13	*	SW8015	S
Methane	180		2.2	2.2	ug/L	08/07/13	*	EPA 3C MOD	S

1,4-dioxane

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,4-dioxane	ND		5000	5000	ug/l	08/06/13	H/T	SW8260B	

QA/QC Surrogates

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
% 1,2-dichlorobenzene-d4	107				%	08/06/13	H/T	70 - 121 %	
% Bromofluorobenzene	83				%	08/06/13	H/T	59 - 113 %	
% Toluene-d8	92				%	08/06/13	H/T	84 - 138 %	

Volatiles

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1,1-Trichloroethane	ND		100	13	ug/L	08/06/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND		50	13	ug/L	08/06/13	H/T	SW8260	
1,1,2-Trichloroethane	ND		100	13	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethane	ND		100	13	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethene	46	J	50	13	ug/L	08/06/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND		50	20	ug/L	08/06/13	H/T	SW8260	B

Project ID: A12 B-HERTEL
Client ID: MW7-73113

Phoenix I.D.: BF14678

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND		50	20	ug/L	08/06/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND		50	20	ug/L	08/06/13	H/T	SW8260
1,2-Dibromoethane	ND		50	10	ug/L	08/06/13	H/T	SW8260
1,2-Dichlorobenzene	ND		100	13	ug/L	08/06/13	H/T	SW8260
1,2-Dichloroethane	ND		100	13	ug/L	08/06/13	H/T	SW8260
1,2-Dichloropropane	ND		50	13	ug/L	08/06/13	H/T	SW8260
1,3-Dichlorobenzene	ND		100	13	ug/L	08/06/13	H/T	SW8260
1,4-Dichlorobenzene	ND		100	13	ug/L	08/06/13	H/T	SW8260
2-Hexanone	21	J	50	14	ug/L	08/06/13	H/T	SW8260
4-Methyl-2-pentanone	ND		50	13	ug/L	08/06/13	H/T	SW8260
Acetone	53	JS	250	16	ug/L	08/06/13	H/T	SW8260
Benzene	ND		35	13	ug/L	08/06/13	H/T	SW8260
Bromochloromethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Bromodichloromethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Bromoform	ND		50	13	ug/L	08/06/13	H/T	SW8260
Bromomethane	ND		100	13	ug/L	08/06/13	H/T	SW8260
Carbon Disulfide	ND		50	13	ug/L	08/06/13	H/T	SW8260
Carbon tetrachloride	ND		50	13	ug/L	08/06/13	H/T	SW8260
Chlorobenzene	ND		100	13	ug/L	08/06/13	H/T	SW8260
Chloroethane	ND		100	13	ug/L	08/06/13	H/T	SW8260
Chloroform	ND		100	13	ug/L	08/06/13	H/T	SW8260
Chloromethane	ND		100	13	ug/L	08/06/13	H/T	SW8260
cis-1,2-Dichloroethene	35000		5000	1300	ug/L	08/08/13	H/T	SW8260
cis-1,3-Dichloropropene	ND		50	13	ug/L	08/06/13	H/T	SW8260
Cyclohexane	ND		250	250	ug/L	08/06/13	H/T	SW8260
Dibromochloromethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Dichlorodifluoromethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Ethylbenzene	ND		50	13	ug/L	08/06/13	H/T	SW8260
Isopropylbenzene	ND		50	13	ug/L	08/06/13	H/T	SW8260
m&p-Xylene	ND		50	21	ug/L	08/06/13	H/T	SW8260
Methyl ethyl ketone	ND		50	25	ug/L	08/06/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND		50	13	ug/L	08/06/13	H/T	SW8260
Methylacetate	ND		250	250	ug/L	08/06/13	H/T	SW8260
Methylcyclohexane	ND		250	250	ug/L	08/06/13	H/T	SW8260
Methylene chloride	ND		150	13	ug/L	08/06/13	H/T	SW8260
o-Xylene	ND		50	23	ug/L	08/06/13	H/T	SW8260
Styrene	ND		50	21	ug/L	08/06/13	H/T	SW8260
Tetrachloroethene	4900		500	130	ug/L	08/06/13	H/T	SW8260
Toluene	ND		100	13	ug/L	08/06/13	H/T	SW8260
Total Xylenes	ND		50	44	ug/L	08/06/13	H/T	SW8260
trans-1,2-Dichloroethene	47	J	100	13	ug/L	08/06/13	H/T	SW8260
trans-1,3-Dichloropropene	ND		50	13	ug/L	08/06/13	H/T	SW8260
Trichloroethene	1600		500	130	ug/L	08/06/13	H/T	SW8260
Trichlorofluoromethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Trichlorotrifluoroethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Vinyl chloride	4100		500	130	ug/L	08/06/13	H/T	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	107				%	08/06/13	H/T	70 - 121 %
% Bromofluorobenzene	83				%	08/06/13	H/T	59 - 113 %
% Dibromofluoromethane	115				%	08/06/13	H/T	70 - 130 %

Project ID: A12 B-HERTEL
Client ID: MW7-73113

Phoenix I.D.: BF14678

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Toluene-d8	92				%	08/06/13	H/T	84 - 138 %
Volatile Library Search Top 10	Completed					08/08/13	TC	[1]
Semivolatiles								
2,3,4,6-tetrachlorophenol	ND		5.0	2.3	ug/L	08/05/13	DD	SW 8270
2,4,5-Trichlorophenol	ND		5.0	2.7	ug/L	08/05/13	DD	SW 8270
2,4,6-Trichlorophenol	ND		5.0	1.6	ug/L	08/05/13	DD	SW 8270
2,4-Dichlorophenol	ND		5.0	1.8	ug/L	08/05/13	DD	SW 8270
2,4-Dimethylphenol	ND		5.0	1.2	ug/L	08/05/13	DD	SW 8270
2,4-Dinitrophenol	ND		25	3.5	ug/L	08/05/13	DD	SW 8270
2,4-Dinitrotoluene	ND		5.0	2.0	ug/L	08/05/13	DD	SW 8270
2,6-Dinitrotoluene	ND		5.0	1.6	ug/L	08/05/13	DD	SW 8270
2-Chloronaphthalene	ND		5.0	1.4	ug/L	08/05/13	DD	SW 8270
2-Chlorophenol	ND		5.0	1.4	ug/L	08/05/13	DD	SW 8270
2-Methylnaphthalene	ND		5.0	1.5	ug/L	08/05/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND		5.0	2.4	ug/L	08/05/13	DD	SW 8270
2-Nitroaniline	ND		25	5.1	ug/L	08/05/13	DD	SW 8270
2-Nitrophenol	ND		5.0	3.2	ug/L	08/05/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND		5.0	2.0	ug/L	08/05/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND		10	2.4	ug/L	08/05/13	DD	SW 8270
3-Nitroaniline	ND		25	11	ug/L	08/05/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND		25	5.4	ug/L	08/05/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND		5.0	1.5	ug/L	08/05/13	DD	SW 8270
4-Chloro-3-methylphenol	ND		5.0	1.8	ug/L	08/05/13	DD	SW 8270
4-Chloroaniline	ND		10	2.3	ug/L	08/05/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND		5.0	1.7	ug/L	08/05/13	DD	SW 8270
4-Nitroaniline	ND		25	1.7	ug/L	08/05/13	DD	SW 8270
4-Nitrophenol	ND		25	2.3	ug/L	08/05/13	DD	SW 8270
Acenaphthene	ND		5.0	1.5	ug/L	08/05/13	DD	SW 8270
Acetophenone	ND		5.0	1.6	ug/L	08/05/13	DD	SW 8270
Anthracene	ND		5.0	1.6	ug/L	08/05/13	DD	SW 8270
Benzaldehyde	ND		5.0	1.5	ug/L	08/05/13	DD	SW 8270
Benzo(ghi)perylene	ND		5.0	1.6	ug/L	08/05/13	DD	SW 8270
Benzyl butyl phthalate	ND		5.0	1.3	ug/L	08/05/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND		5.0	1.4	ug/L	08/05/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND		5.0	1.4	ug/L	08/05/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND		5.0	1.4	ug/L	08/05/13	DD	SW 8270
Caprolactam	ND		10	8.9	ug/L	08/05/13	DD	SW 8270
Carbazole	ND		25	3.8	ug/L	08/05/13	DD	SW 8270
Dibenzofuran	ND		5.0	1.5	ug/L	08/05/13	DD	SW 8270
Diethyl phthalate	ND		5.0	1.6	ug/L	08/05/13	DD	SW 8270
Dimethylphthalate	ND		5.0	1.6	ug/L	08/05/13	DD	SW 8270
Di-n-butylphthalate	ND		5.0	1.3	ug/L	08/05/13	DD	SW 8270
Di-n-octylphthalate	ND		5.0	1.3	ug/L	08/05/13	DD	SW 8270
Fluoranthene	1.7	J	5.0	1.6	ug/L	08/05/13	DD	SW 8270
Fluorene	ND		5.0	1.7	ug/L	08/05/13	DD	SW 8270
Hexachlorocyclopentadiene	ND		5.0	1.5	ug/L	08/05/13	DD	SW 8270
Isophorone	ND		5.0	1.4	ug/L	08/05/13	DD	SW 8270
Naphthalene	ND		5.0	1.4	ug/L	08/05/13	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Nitrobenzene	ND	5.0	1.8	ug/L	08/05/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	08/05/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	08/05/13	DD	SW 8270
Phenol	ND	5.0	1.6	ug/L	08/05/13	DD	SW 8270
Pyrene	ND	5.0	1.7	ug/L	08/05/13	DD	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	105			%	08/05/13	DD	19 - 122 %
% 2-Fluorobiphenyl	81			%	08/05/13	DD	30 - 115 %
% 2-Fluorophenol	73			%	08/05/13	DD	25 - 121 %
% Nitrobenzene-d5	89			%	08/05/13	DD	23 - 120 %
% Phenol-d5	75			%	08/05/13	DD	24 - 113 %
% Terphenyl-d14	74			%	08/05/13	DD	18 - 137 %

Semivolatiles

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1-Biphenyl	ND	0.90	0.90	ug/L	08/04/13	DD	SW 8270(SIM)
1,2,4,5-Tetrachlorobenzene	ND	2.0	2.0	ug/L	08/04/13	DD	SW 8270(SIM)
Acenaphthylene	ND	0.30	0.30	ug/L	08/04/13	DD	SW 8270(SIM)
Atrazine	ND	3.0	3.0	ug/L	08/04/13	DD	SW 8270(SIM)
Benz(a)anthracene	0.5	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Benzo(a)pyrene	0.42	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Benzo(b)fluoranthene	0.6	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Benzo(k)fluoranthene	0.19	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Bis(2-ethylhexyl)phthalate	ND	2.0	2.0	ug/L	08/04/13	DD	SW 8270(SIM)
Chrysene	0.52	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Dibenz(a,h)anthracene	0.09	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Hexachlorobenzene	ND	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	08/04/13	DD	SW 8270(SIM)
Hexachloroethane	ND	3.0	3.0	ug/L	08/04/13	DD	SW 8270(SIM)
Indeno(1,2,3-cd)pyrene	0.28	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
N-Nitrosodimethylamine	ND	0.80	0.80	ug/L	08/04/13	DD	SW 8270(SIM)
Pentachlorophenol	ND	0.30	0.30	ug/L	08/04/13	DD	SW 8270(SIM)
Phenanthrene	0.84	0.077	0.077	ug/L	08/04/13	DD	SW 8270(SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	105			%	08/04/13	DD	19 - 122 %
% 2-Fluorobiphenyl	81			%	08/04/13	DD	30 - 115 %
% 2-Fluorophenol	73			%	08/04/13	DD	25 - 121 %
% Nitrobenzene-d5	89			%	08/04/13	DD	23 - 120 %
% Phenol-d5	75			%	08/04/13	DD	24 - 113 %
% Terphenyl-d14	74			%	08/04/13	DD	18 - 137 %
SVOA Library Search Top 15	Completed				08/05/13	DD	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
S = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

*Methane, Ethane and Ethene analyzed by NY certified lab #11393.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	10:48
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14679

Project ID: A12 B-HERTEL
Client ID: MW8-73113

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Iron, (Dissolved)	0.02	0.01	0.005	mg/L	08/03/13	LK	SW6010	
Iron	20.1	0.01	0.005	mg/L	08/03/13	LK	SW6010	
Manganese, (Dissolved)	1.32	0.005	0.001	mg/L	08/03/13	LK	SW6010	
Manganese	1.64	0.005	0.001	mg/L	08/03/13	LK	SW6010	
Hydrogen Sulfide	< 0.05	0.05	0.05	mg/L	08/02/13	GD	SM4500SH	1
Nitrite as Nitrogen	< 0.01	0.01	0.01	mg/L	08/01/13 20:38	BS/EG	300.0	
Sulfate	54.2	3.0	3	mg/L	08/01/13	BS/EG	300.0	
Filtration	Completed				08/01/13	Z/Z	0.45um Filter	
Dissolved Metals Preparation	Completed				08/01/13	Z/Z	SW846-3005	
Total Metals Digestion	Completed				08/01/13	AG	SW846 - 3050	
Ethane	ND	5.0	5.0	ug/L	08/07/13	*	SW8015	S
Ethene	ND	5.0	5.0	ug/L	08/07/13	*	SW8015	S
Methane	ND	2.2	2.2	ug/L	08/07/13	*	EPA 3C MOD	S

1,4-dioxane

1,4-dioxane	ND	100	100	ug/l	08/06/13	H/T	SW8260B	

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	107			%	08/06/13	H/T	70 - 121 %	
% Bromofluorobenzene	92			%	08/06/13	H/T	59 - 113 %	
% Toluene-d8	100			%	08/06/13	H/T	84 - 138 %	

Volatiles

1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2-Trichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethane	ND	2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	0.40	ug/L	08/06/13	H/T	SW8260	B
1,2,4-Trichlorobenzene	ND	1.0	0.40	ug/L	08/06/13	H/T	SW8260	

Project ID: A12 B-HERTEL
Client ID: MW8-73113

Phoenix I.D.: BF14679

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,2-Dibromo-3-chloropropane	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260
1,2-Dibromoethane	ND		1.0	0.20	ug/L	08/06/13	H/T	SW8260
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,2-Dichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,2-Dichloropropane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
2-Hexanone	ND		1.0	0.27	ug/L	08/06/13	H/T	SW8260
4-Methyl-2-pentanone	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Acetone	ND		5.0	0.31	ug/L	08/06/13	H/T	SW8260
Benzene	ND		0.70	0.25	ug/L	08/06/13	H/T	SW8260
Bromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromodichloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromoform	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Bromomethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Carbon Disulfide	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Carbon tetrachloride	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Chlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloroform	0.35	J	2.0	0.25	ug/L	08/06/13	H/T	SW8260
Chloromethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
cis-1,2-Dichloroethene	17		1.0	0.25	ug/L	08/06/13	H/T	SW8260
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Cyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Dibromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Dichlorodifluoromethane	ND		1.0	0.26	ug/L	08/06/13	H/T	SW8260
Ethylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Isopropylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
m&p-Xylene	ND		1.0	0.42	ug/L	08/06/13	H/T	SW8260
Methyl ethyl ketone	ND		1.0	0.50	ug/L	08/06/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Methylacetate	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Methylcyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260
Methylene chloride	ND		3.0	0.25	ug/L	08/06/13	H/T	SW8260
o-Xylene	ND		1.0	0.45	ug/L	08/06/13	H/T	SW8260
Styrene	ND		1.0	0.41	ug/L	08/06/13	H/T	SW8260
Tetrachloroethene	110		20	5.0	ug/L	08/06/13	H/T	SW8260
Toluene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
Total Xylenes	ND		1.0	0.87	ug/L	08/06/13	H/T	SW8260
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichloroethene	5.8		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichlorofluoromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
Vinyl chloride	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	107				%	08/06/13	H/T	70 - 121 %
% Bromofluorobenzene	92				%	08/06/13	H/T	59 - 113 %
% Dibromofluoromethane	101				%	08/06/13	H/T	70 - 130 %
% Toluene-d8	100				%	08/06/13	H/T	84 - 138 %

Project ID: A12 B-HERTEL
Client ID: MW8-73113

Phoenix I.D.: BF14679

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Volatile Library Search Top 10	Completed				08/08/13	TC	1

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S = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

*Methane, Ethane and Ethene analyzed by NY certified lab #11393.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	10:25
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14680

Project ID: A12 B-HERTEL
Client ID: MW9-73113

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed					08/01/13	I/K/D	SW3520	
1,4-dioxane									
1,4-dioxane	ND		100	100	ug/l	08/06/13	H/T	SW8260B	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	107				%	08/06/13	H/T	70 - 121 %	
% Bromofluorobenzene	81				%	08/06/13	H/T	59 - 113 %	
% Toluene-d8	101				%	08/06/13	H/T	84 - 138 %	
Volatiles									
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260	B
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260	
1,2-Dibromo-3-chloropropane	ND		1.0	0.40	ug/L	08/06/13	H/T	SW8260	
1,2-Dibromoethane	ND		1.0	0.20	ug/L	08/06/13	H/T	SW8260	
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2-Dichloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
2-Hexanone	ND		1.0	0.27	ug/L	08/06/13	H/T	SW8260	
4-Methyl-2-pentanone	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Acetone	1.7	JS	5.0	0.31	ug/L	08/06/13	H/T	SW8260	
Benzene	ND		0.70	0.25	ug/L	08/06/13	H/T	SW8260	
Bromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	

Project ID: A12 B-HERTEL
Client ID: MW9-73113

Phoenix I.D.: BF14680

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Bromodichloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Bromoform	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Bromomethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
Carbon Disulfide	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Carbon tetrachloride	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Chlorobenzene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
Chloroethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
Chloroform	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
Chloromethane	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
cis-1,2-Dichloroethene	67		20	5.0	ug/L	08/06/13	H/T	SW8260	
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Cyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260	
Dibromochloromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Dichlorodifluoromethane	ND		1.0	0.26	ug/L	08/06/13	H/T	SW8260	
Ethylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Isopropylbenzene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
m&p-Xylene	ND		1.0	0.42	ug/L	08/06/13	H/T	SW8260	
Methyl ethyl ketone	ND		1.0	0.50	ug/L	08/06/13	H/T	SW8260	
Methyl t-butyl ether (MTBE)	1.6		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Methylacetate	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260	
Methylcyclohexane	ND		5.0	5.0	ug/L	08/06/13	H/T	SW8260	
Methylene chloride	ND		3.0	0.25	ug/L	08/06/13	H/T	SW8260	
o-Xylene	ND		1.0	0.45	ug/L	08/06/13	H/T	SW8260	
Styrene	ND		1.0	0.41	ug/L	08/06/13	H/T	SW8260	
Tetrachloroethene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Toluene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
Total Xylenes	ND		1.0	0.87	ug/L	08/06/13	H/T	SW8260	
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L	08/06/13	H/T	SW8260	
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Trichloroethene	0.33	J	1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	08/06/13	H/T	SW8260	
Vinyl chloride	160		20	5.0	ug/L	08/06/13	H/T	SW8260	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	107				%	08/06/13	H/T	70 - 121 %	
% Bromofluorobenzene	81				%	08/06/13	H/T	59 - 113 %	
% Dibromofluoromethane	123				%	08/06/13	H/T	70 - 130 %	
% Toluene-d8	101				%	08/06/13	H/T	84 - 138 %	
Volatile Library Search Top 10	Completed					08/08/13	TC		1
Semivolatiles									
2,3,4,6-tetrachlorophenol	ND		5.0	2.3	ug/L	08/05/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND		5.0	2.7	ug/L	08/05/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND		5.0	1.6	ug/L	08/05/13	DD	SW 8270	
2,4-Dichlorophenol	ND		5.0	1.8	ug/L	08/05/13	DD	SW 8270	
2,4-Dimethylphenol	ND		5.0	1.2	ug/L	08/05/13	DD	SW 8270	
2,4-Dinitrophenol	ND		25	3.5	ug/L	08/05/13	DD	SW 8270	
2,4-Dinitrotoluene	ND		5.0	2.0	ug/L	08/05/13	DD	SW 8270	
2,6-Dinitrotoluene	ND		5.0	1.6	ug/L	08/05/13	DD	SW 8270	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
2-Chloronaphthalene	ND	5.0	1.4	ug/L	08/05/13	DD	SW 8270
2-Chlorophenol	ND	5.0	1.4	ug/L	08/05/13	DD	SW 8270
2-Methylnaphthalene	ND	5.0	1.5	ug/L	08/05/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	5.0	2.4	ug/L	08/05/13	DD	SW 8270
2-Nitroaniline	ND	25	5.1	ug/L	08/05/13	DD	SW 8270
2-Nitrophenol	ND	5.0	3.2	ug/L	08/05/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	5.0	2.0	ug/L	08/05/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	10	2.4	ug/L	08/05/13	DD	SW 8270
3-Nitroaniline	ND	25	11	ug/L	08/05/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	25	5.4	ug/L	08/05/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	08/05/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	5.0	1.8	ug/L	08/05/13	DD	SW 8270
4-Chloroaniline	ND	10	2.3	ug/L	08/05/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	08/05/13	DD	SW 8270
4-Nitroaniline	ND	25	1.7	ug/L	08/05/13	DD	SW 8270
4-Nitrophenol	ND	25	2.3	ug/L	08/05/13	DD	SW 8270
Acenaphthene	ND	5.0	1.5	ug/L	08/05/13	DD	SW 8270
Acetophenone	ND	5.0	1.6	ug/L	08/05/13	DD	SW 8270
Anthracene	ND	5.0	1.6	ug/L	08/05/13	DD	SW 8270
Benzaldehyde	ND	5.0	1.5	ug/L	08/05/13	DD	SW 8270
Benzo(ghi)perylene	ND	5.0	1.6	ug/L	08/05/13	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	08/05/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	08/05/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	5.0	1.4	ug/L	08/05/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	08/05/13	DD	SW 8270
Caprolactam	ND	10	8.9	ug/L	08/05/13	DD	SW 8270
Carbazole	ND	25	3.8	ug/L	08/05/13	DD	SW 8270
Dibenzofuran	ND	5.0	1.5	ug/L	08/05/13	DD	SW 8270
Diethyl phthalate	ND	5.0	1.6	ug/L	08/05/13	DD	SW 8270
Dimethylphthalate	ND	5.0	1.6	ug/L	08/05/13	DD	SW 8270
Di-n-butylphthalate	ND	5.0	1.3	ug/L	08/05/13	DD	SW 8270
Di-n-octylphthalate	ND	5.0	1.3	ug/L	08/05/13	DD	SW 8270
Fluoranthene	ND	5.0	1.6	ug/L	08/05/13	DD	SW 8270
Fluorene	ND	5.0	1.7	ug/L	08/05/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	08/05/13	DD	SW 8270
Isophorone	ND	5.0	1.4	ug/L	08/05/13	DD	SW 8270
Naphthalene	ND	5.0	1.4	ug/L	08/05/13	DD	SW 8270
Nitrobenzene	ND	5.0	1.8	ug/L	08/05/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	08/05/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	08/05/13	DD	SW 8270
Phenol	ND	5.0	1.6	ug/L	08/05/13	DD	SW 8270
Pyrene	ND	5.0	1.7	ug/L	08/05/13	DD	SW 8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	110			%	08/05/13	DD	19 - 122 %
% 2-Fluorobiphenyl	89			%	08/05/13	DD	30 - 115 %
% 2-Fluorophenol	77			%	08/05/13	DD	25 - 121 %
% Nitrobenzene-d5	88			%	08/05/13	DD	23 - 120 %
% Phenol-d5	75			%	08/05/13	DD	24 - 113 %
% Terphenyl-d14	99			%	08/05/13	DD	18 - 137 %

Project ID: A12 B-HERTEL
Client ID: MW9-73113

Phoenix I.D.: BF14680

Semivolatiles

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1-Biphenyl	ND	0.90	0.90	ug/L	08/04/13	DD	SW 8270(SIM)
1,2,4,5-Tetrachlorobenzene	ND	2.0	2.0	ug/L	08/04/13	DD	SW 8270(SIM)
Acenaphthylene	ND	0.30	0.30	ug/L	08/04/13	DD	SW 8270(SIM)
Atrazine	ND	3.0	3.0	ug/L	08/04/13	DD	SW 8270(SIM)
Benz(a)anthracene	0.17	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Benzo(a)pyrene	0.2	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Benzo(b)fluoranthene	0.28	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Benzo(k)fluoranthene	0.07	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Bis(2-ethylhexyl)phthalate	ND	2.0	2.0	ug/L	08/04/13	DD	SW 8270(SIM)
Chrysene	0.19	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Dibenz(a,h)anthracene	0.04	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Hexachlorobenzene	ND	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	08/04/13	DD	SW 8270(SIM)
Hexachloroethane	ND	3.0	3.0	ug/L	08/04/13	DD	SW 8270(SIM)
Indeno(1,2,3-cd)pyrene	0.13	0.020	0.020	ug/L	08/04/13	DD	SW 8270(SIM)
N-Nitrosodimethylamine	ND	0.80	0.80	ug/L	08/04/13	DD	SW 8270(SIM)
Pentachlorophenol	ND	0.30	0.30	ug/L	08/04/13	DD	SW 8270(SIM)
Phenanthrene	0.27	0.077	0.077	ug/L	08/04/13	DD	SW 8270(SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	110			%	08/04/13	DD	19 - 122 %
% 2-Fluorobiphenyl	89			%	08/04/13	DD	30 - 115 %
% 2-Fluorophenol	77			%	08/04/13	DD	25 - 121 %
% Nitrobenzene-d5	88			%	08/04/13	DD	23 - 120 %
% Phenol-d5	75			%	08/04/13	DD	24 - 113 %
% Terphenyl-d14	99			%	08/04/13	DD	18 - 137 %
SVOA Library Search Top 15	Completed				08/05/13	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	12:05
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14681

Project ID: A12 B-HERTEL
Client ID: MW11-73113

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Iron, (Dissolved)	0.07		0.01	0.005	mg/L	08/03/13	LK	SW6010	
Iron	68.7		0.01	0.005	mg/L	08/03/13	LK	SW6010	
Manganese, (Dissolved)	2.76		0.053	0.011	mg/L	08/02/13	LK	SW6010	
Manganese	3.63		0.050	0.010	mg/L	08/03/13	LK	SW6010	
Hydrogen Sulfide	< 0.05		0.05	0.05	mg/L	08/02/13	GD	SM4500SH	1
Nitrite as Nitrogen	< 0.01		0.01	0.01	mg/L	08/01/13 20:45	BS/EG	300.0	
Sulfate	19.3		3.0	3	mg/L	08/01/13	BS/EG	300.0	
Filtration	Completed					08/01/13	Z/Z	0.45um Filter	
Dissolved Metals Preparation	Completed					08/01/13	Z/Z	SW846-3005	
Total Metals Digestion	Completed					08/01/13	AG	SW846 - 3050	
Ethane	12.0		5.0	5.0	ug/L	08/07/13	*	SW8015	S
Ethene	6.93		5.0	5.0	ug/L	08/07/13	*	SW8015	S
Methane	9.25		2.2	2.2	ug/L	08/07/13	*	EPA 3C MOD	S

1,4-dioxane

1,4-dioxane	ND		5000	5000	ug/l	08/06/13	H/T	SW8260B	

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	109				%	08/06/13	H/T	70 - 121 %	
% Bromofluorobenzene	86				%	08/06/13	H/T	59 - 113 %	
% Toluene-d8	101				%	08/06/13	H/T	84 - 138 %	

Volatiles

1,1,1-Trichloroethane	ND		100	13	ug/L	08/06/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND		50	13	ug/L	08/06/13	H/T	SW8260	
1,1,2-Trichloroethane	ND		100	13	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethane	ND		100	13	ug/L	08/06/13	H/T	SW8260	
1,1-Dichloroethene	40	J	50	13	ug/L	08/06/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND		50	20	ug/L	08/06/13	H/T	SW8260	B
1,2,4-Trichlorobenzene	ND		50	20	ug/L	08/06/13	H/T	SW8260	

Project ID: A12 B-HERTEL
Client ID: MW11-73113

Phoenix I.D.: BF14681

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,2-Dibromo-3-chloropropane	ND		50	20	ug/L	08/06/13	H/T	SW8260
1,2-Dibromoethane	ND		50	10	ug/L	08/06/13	H/T	SW8260
1,2-Dichlorobenzene	ND		100	13	ug/L	08/06/13	H/T	SW8260
1,2-Dichloroethane	ND		100	13	ug/L	08/06/13	H/T	SW8260
1,2-Dichloropropane	ND		50	13	ug/L	08/06/13	H/T	SW8260
1,3-Dichlorobenzene	ND		100	13	ug/L	08/06/13	H/T	SW8260
1,4-Dichlorobenzene	ND		100	13	ug/L	08/06/13	H/T	SW8260
2-Hexanone	ND		50	14	ug/L	08/06/13	H/T	SW8260
4-Methyl-2-pentanone	ND		50	13	ug/L	08/06/13	H/T	SW8260
Acetone	ND		250	16	ug/L	08/06/13	H/T	SW8260
Benzene	ND		35	13	ug/L	08/06/13	H/T	SW8260
Bromochloromethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Bromodichloromethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Bromoform	ND		50	13	ug/L	08/06/13	H/T	SW8260
Bromomethane	ND		100	13	ug/L	08/06/13	H/T	SW8260
Carbon Disulfide	ND		50	13	ug/L	08/06/13	H/T	SW8260
Carbon tetrachloride	ND		50	13	ug/L	08/06/13	H/T	SW8260
Chlorobenzene	ND		100	13	ug/L	08/06/13	H/T	SW8260
Chloroethane	ND		100	13	ug/L	08/06/13	H/T	SW8260
Chloroform	ND		100	13	ug/L	08/06/13	H/T	SW8260
Chloromethane	ND		100	13	ug/L	08/06/13	H/T	SW8260
cis-1,2-Dichloroethene	13000		500	130	ug/L	08/06/13	H/T	SW8260
cis-1,3-Dichloropropene	ND		50	13	ug/L	08/06/13	H/T	SW8260
Cyclohexane	ND		250	250	ug/L	08/06/13	H/T	SW8260
Dibromochloromethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Dichlorodifluoromethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Ethylbenzene	ND		50	13	ug/L	08/06/13	H/T	SW8260
Isopropylbenzene	ND		50	13	ug/L	08/06/13	H/T	SW8260
m&p-Xylene	ND		50	21	ug/L	08/06/13	H/T	SW8260
Methyl ethyl ketone	ND		50	25	ug/L	08/06/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND		50	13	ug/L	08/06/13	H/T	SW8260
Methylacetate	ND		250	250	ug/L	08/06/13	H/T	SW8260
Methylcyclohexane	ND		250	250	ug/L	08/06/13	H/T	SW8260
Methylene chloride	ND		150	13	ug/L	08/06/13	H/T	SW8260
o-Xylene	ND		50	23	ug/L	08/06/13	H/T	SW8260
Styrene	ND		50	21	ug/L	08/06/13	H/T	SW8260
Tetrachloroethene	600		50	13	ug/L	08/06/13	H/T	SW8260
Toluene	ND		100	13	ug/L	08/06/13	H/T	SW8260
Total Xylenes	ND		50	44	ug/L	08/06/13	H/T	SW8260
trans-1,2-Dichloroethene	50	J	100	13	ug/L	08/06/13	H/T	SW8260
trans-1,3-Dichloropropene	ND		50	13	ug/L	08/06/13	H/T	SW8260
Trichloroethene	980		50	13	ug/L	08/06/13	H/T	SW8260
Trichlorofluoromethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Trichlorotrifluoroethane	ND		50	13	ug/L	08/06/13	H/T	SW8260
Vinyl chloride	340		50	13	ug/L	08/06/13	H/T	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	108				%	08/06/13	H/T	70 - 121 %
% Bromofluorobenzene	81				%	08/06/13	H/T	59 - 113 %
% Dibromofluoromethane	111				%	08/06/13	H/T	70 - 130 %
% Toluene-d8	92				%	08/06/13	H/T	84 - 138 %

Project ID: A12 B-HERTEL
Client ID: MW11-73113

Phoenix I.D.: BF14681

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Volatile Library Search Top 10	Completed				08/08/13	TC		1

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
S = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

*Methane, Ethane and Ethene analyzed by NY certified lab #11393.

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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	11:50
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14682

Project ID: A12 B-HERTEL
Client ID: MW12-73113

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Iron, (Dissolved)	0.04	0.01	0.005	mg/L	08/03/13	LK	SW6010	
Iron	7.90	0.01	0.005	mg/L	08/03/13	LK	SW6010	
Manganese, (Dissolved)	0.371	0.005	0.001	mg/L	08/03/13	LK	SW6010	
Manganese	0.443	0.005	0.001	mg/L	08/03/13	LK	SW6010	
Hydrogen Sulfide	< 0.05	0.05	0.05	mg/L	08/02/13	GD	SM4500SH	1
Nitrite as Nitrogen	< 0.01	0.01	0.01	mg/L	08/01/13 20:53	BS/EG	300.0	
Sulfate	< 3.0	3.0	3	mg/L	08/01/13	BS/EG	300.0	
Filtration	Completed				08/01/13	Z/Z	0.45um Filter	
Dissolved Metals Preparation	Completed				08/01/13	Z/Z	SW846-3005	
Total Metals Digestion	Completed				08/01/13	AG	SW846 - 3050	
Ethane	71.0	50	50	ug/L	08/07/13	*	SW8015	S
Ethene	59.4	50	50	ug/L	08/07/13	*	SW8015	S
Methane	1820	22	22	ug/L	08/07/13	*	EPA 3C MOD	S

1,4-dioxane

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,4-dioxane	ND	200	200	ug/l	08/07/13	H/T	SW8260B
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105			%	08/07/13	H/T	70 - 121 %
% Bromofluorobenzene	81			%	08/07/13	H/T	59 - 113 %
% Toluene-d8	102			%	08/07/13	H/T	84 - 138 %

Volatiles

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1,1-Trichloroethane	ND	4.0	0.50	ug/L	08/07/13	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	2.0	0.50	ug/L	08/07/13	H/T	SW8260
1,1,2-Trichloroethane	ND	4.0	0.50	ug/L	08/07/13	H/T	SW8260
1,1-Dichloroethane	ND	4.0	0.50	ug/L	08/07/13	H/T	SW8260
1,1-Dichloroethene	ND	2.0	0.50	ug/L	08/07/13	H/T	SW8260
1,2,3-Trichlorobenzene	ND	2.0	0.80	ug/L	08/07/13	H/T	SW8260
1,2,4-Trichlorobenzene	ND	2.0	0.80	ug/L	08/07/13	H/T	SW8260

Project ID: A12 B-HERTEL
Client ID: MW12-73113

Phoenix I.D.: BF14682

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,2-Dibromo-3-chloropropane	ND		2.0	0.80	ug/L	08/07/13	H/T	SW8260
1,2-Dibromoethane	ND		2.0	0.40	ug/L	08/07/13	H/T	SW8260
1,2-Dichlorobenzene	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
1,2-Dichloroethane	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
1,2-Dichloropropane	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
1,3-Dichlorobenzene	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
1,4-Dichlorobenzene	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
2-Hexanone	ND		2.0	0.54	ug/L	08/07/13	H/T	SW8260
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Acetone	9.2	JS	10	0.62	ug/L	08/07/13	H/T	SW8260
Benzene	ND		1.4	0.50	ug/L	08/07/13	H/T	SW8260
Bromochloromethane	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Bromodichloromethane	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Bromoform	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Bromomethane	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
Carbon Disulfide	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Carbon tetrachloride	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Chlorobenzene	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
Chloroethane	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
Chloroform	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
Chloromethane	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
cis-1,2-Dichloroethene	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
cis-1,3-Dichloropropene	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Cyclohexane	ND		10	10	ug/L	08/07/13	H/T	SW8260
Dibromochloromethane	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Dichlorodifluoromethane	ND		2.0	0.52	ug/L	08/07/13	H/T	SW8260
Ethylbenzene	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Isopropylbenzene	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
m&p-Xylene	ND		2.0	0.84	ug/L	08/07/13	H/T	SW8260
Methyl ethyl ketone	ND		2.0	1.0	ug/L	08/07/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Methylacetate	ND		10	10	ug/L	08/07/13	H/T	SW8260
Methylcyclohexane	ND		10	10	ug/L	08/07/13	H/T	SW8260
Methylene chloride	ND		6.0	0.50	ug/L	08/07/13	H/T	SW8260
o-Xylene	ND		2.0	0.90	ug/L	08/07/13	H/T	SW8260
Styrene	ND		2.0	0.82	ug/L	08/07/13	H/T	SW8260
Tetrachloroethene	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Toluene	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
Total Xylenes	ND		2.0	1.7	ug/L	08/07/13	H/T	SW8260
trans-1,2-Dichloroethene	ND		4.0	0.50	ug/L	08/07/13	H/T	SW8260
trans-1,3-Dichloropropene	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Trichloroethene	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Trichlorofluoromethane	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Trichlorotrifluoroethane	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
Vinyl chloride	ND		2.0	0.50	ug/L	08/07/13	H/T	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	105				%	08/07/13	H/T	70 - 121 %
% Bromofluorobenzene	81				%	08/07/13	H/T	59 - 113 %
% Dibromofluoromethane	117				%	08/07/13	H/T	70 - 130 %
% Toluene-d8	102				%	08/07/13	H/T	84 - 138 %

Project ID: A12 B-HERTEL
Client ID: MW12-73113

Phoenix I.D.: BF14682

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Volatile Library Search Top 10	Completed				08/08/13	TC	1

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
S = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

*Methane, Ethane and Ethene analyzed by NY certified lab #11393.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823
NY # 11301

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	10:05
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14683

Project ID: A12 B-HERTEL
Client ID: DUP-73113

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,4-dioxane							
1,4-dioxane	ND	100	100	ug/l	08/07/13	H/T	SW8260B
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	109			%	08/07/13	H/T	70 - 121 %
% Bromofluorobenzene	79			%	08/07/13	H/T	59 - 113 %
% Toluene-d8	105			%	08/07/13	H/T	84 - 138 %
Volatiles							
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
1,1,2-Trichloroethane	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
1,1-Dichloroethane	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
1,1-Dichloroethene	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	0.40	ug/L	08/07/13	H/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	0.40	ug/L	08/07/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	0.40	ug/L	08/07/13	H/T	SW8260
1,2-Dibromoethane	ND	1.0	0.20	ug/L	08/07/13	H/T	SW8260
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
1,2-Dichloroethane	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
1,2-Dichloropropane	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
2-Hexanone	ND	1.0	0.27	ug/L	08/07/13	H/T	SW8260
4-Methyl-2-pentanone	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Acetone	3.7 JS	5.0	0.31	ug/L	08/07/13	H/T	SW8260
Benzene	ND	0.70	0.25	ug/L	08/07/13	H/T	SW8260
Bromochloromethane	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Bromodichloromethane	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Bromoform	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Bromomethane	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
Carbon Disulfide	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Carbon tetrachloride	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Chlorobenzene	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
Chloroethane	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
Chloroform	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
Chloromethane	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
cis-1,3-Dichloropropene	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Cyclohexane	ND	5.0	5.0	ug/L	08/07/13	H/T	SW8260
Dibromochloromethane	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	0.26	ug/L	08/07/13	H/T	SW8260
Ethylbenzene	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Isopropylbenzene	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
m&p-Xylene	ND	1.0	0.42	ug/L	08/07/13	H/T	SW8260
Methyl ethyl ketone	ND	1.0	0.50	ug/L	08/07/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Methylacetate	ND	5.0	5.0	ug/L	08/07/13	H/T	SW8260
Methylcyclohexane	ND	5.0	5.0	ug/L	08/07/13	H/T	SW8260
Methylene chloride	ND	3.0	0.25	ug/L	08/07/13	H/T	SW8260
o-Xylene	ND	1.0	0.45	ug/L	08/07/13	H/T	SW8260
Styrene	ND	1.0	0.41	ug/L	08/07/13	H/T	SW8260
Tetrachloroethene	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Toluene	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
Total Xylenes	ND	1.0	0.87	ug/L	08/07/13	H/T	SW8260
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	08/07/13	H/T	SW8260
trans-1,3-Dichloropropene	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Trichloroethene	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Trichlorofluoromethane	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
Vinyl chloride	ND	1.0	0.25	ug/L	08/07/13	H/T	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	109			%	08/07/13	H/T	70 - 121 %
% Bromofluorobenzene	79			%	08/07/13	H/T	59 - 113 %
% Dibromofluoromethane	117			%	08/07/13	H/T	70 - 130 %
% Toluene-d8	105			%	08/07/13	H/T	84 - 138 %
Volatile Library Search Top 10	Completed				08/08/13	TC	1

Project ID: A12 B-HERTEL
Client ID: DUP-73113

Phoenix I.D.: BF14683

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller

Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Report

August 14, 2013

FOR: Attn: Mr. Elby Benton
AFI Environmental
P.O. Box 4049
Niagara Falls, NY 14304

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	J	07/31/13	0:00
Location Code:	AFI-ENV	Received by:	LPB	08/01/13	11:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF14672
Phoenix ID: BF14684

Project ID: A12 B-HERTEL
Client ID: TRIP BLANK

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,4-dioxane									
1,4-dioxane	ND		100	100	ug/l	08/02/13	H/T	SW8260B	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	107				%	08/02/13	H/T	70 - 121 %	
% Bromofluorobenzene	87				%	08/02/13	H/T	59 - 113 %	
% Toluene-d8	100				%	08/02/13	H/T	84 - 138 %	
Volatiles									
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260	
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260	
1,1-Dichloroethane	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L	08/02/13	H/T	SW8260	B
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L	08/02/13	H/T	SW8260	
1,2-Dibromo-3-chloropropane	ND		1.0	0.40	ug/L	08/02/13	H/T	SW8260	
1,2-Dibromoethane	ND		1.0	0.20	ug/L	08/02/13	H/T	SW8260	
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260	
1,2-Dichloroethane	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260	
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260	
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260	
2-Hexanone	ND		1.0	0.27	ug/L	08/02/13	H/T	SW8260	
4-Methyl-2-pentanone	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260	
Acetone	1.5	JS	5.0	0.31	ug/L	08/02/13	H/T	SW8260	
Benzene	ND		0.70	0.25	ug/L	08/02/13	H/T	SW8260	
Bromochloromethane	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260	
Bromodichloromethane	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Bromoform	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Bromomethane	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260
Carbon Disulfide	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Carbon tetrachloride	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Chlorobenzene	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260
Chloroethane	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260
Chloroform	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260
Chloromethane	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Cyclohexane	ND		5.0	5.0	ug/L	08/02/13	H/T	SW8260
Dibromochloromethane	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Dichlorodifluoromethane	ND		1.0	0.26	ug/L	08/02/13	H/T	SW8260
Ethylbenzene	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Isopropylbenzene	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
m&p-Xylene	ND		1.0	0.42	ug/L	08/02/13	H/T	SW8260
Methyl ethyl ketone	ND		1.0	0.50	ug/L	08/02/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Methylacetate	ND		5.0	5.0	ug/L	08/02/13	H/T	SW8260
Methylcyclohexane	ND		5.0	5.0	ug/L	08/02/13	H/T	SW8260
Methylene chloride	0.42	JS	3.0	0.25	ug/L	08/02/13	H/T	SW8260
o-Xylene	ND		1.0	0.45	ug/L	08/02/13	H/T	SW8260
Styrene	ND		1.0	0.41	ug/L	08/02/13	H/T	SW8260
Tetrachloroethene	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Toluene	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260
Total Xylenes	ND		1.0	0.87	ug/L	08/02/13	H/T	SW8260
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L	08/02/13	H/T	SW8260
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Trichloroethene	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Trichlorofluoromethane	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
Vinyl chloride	ND		1.0	0.25	ug/L	08/02/13	H/T	SW8260
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	107				%	08/02/13	H/T	70 - 121 %
% Bromofluorobenzene	87				%	08/02/13	H/T	59 - 113 %
% Dibromofluoromethane	91				%	08/02/13	H/T	70 - 130 %
% Toluene-d8	100				%	08/02/13	H/T	84 - 138 %
Volatile Library Search Top 10	Completed					08/05/13	TC	1

Project ID: A12 B-HERTEL
Client ID: TRIP BLANK

Phoenix I.D.: BF14684

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
August 14, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

Sample Criteria Exceedences Report

GBF14672 - AFI-ENV

Requested Criteria: GW
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14672	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BF14672	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14672	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14672	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14672	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF14672	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF14673	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BF14673	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14673	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14673	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14673	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF14673	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF14674	$DP8260_TCLR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	18	1.0	2	2	ug/L
BF14674	$DP8260_TCLR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	18	1.0	2	2	ug/L
BF14674	$DP8260_TCLR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	1100	200	5	5	ug/L
BF14674	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BF14674	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14674	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14674	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14674	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF14674	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF14674	$DPWM_TCLR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BF14674	$DPWM_TCLR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BF14674	$DPWM_TCLR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF14674	$DPWM_TCLR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14674	$DPWM_TCLR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14674	$DPWM_TCLR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L

Sample Criteria Exceedences Report

GBF14672 - AFI-ENV

Requested Criteria: GW
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14674	$DPWM_TCLR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14674	$DPWM_TCLR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14674	$DPWM_TCLR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14674	$DPWM_TCLR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14674	$DPWM_TCLR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14674	$DPWM_TCLR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14674	$DPWM_TCLR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14674	$DPWM_TCLR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14674	$DPWM_TCLR	2,3,4,6-tetrachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14674	$DPWM_TCLR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF14674	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.020	0.002	0.002	ug/L
BF14674	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.09	0.020	0.002	0.002	ug/L
BF14674	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.12	0.020	0.002	0.002	ug/L
BF14674	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.12	0.020	0.002	0.002	ug/L
BF14674	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.24	0.020	0.002	0.002	ug/L
BF14674	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.24	0.020	0.002	0.002	ug/L
BF14674	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.1	0.020	0.002	0.002	ug/L
BF14674	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.1	0.020	0.002	0.002	ug/L
BF14674	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.15	0.020	0.002	0.002	ug/L
BF14674	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.12	0.020	0.002	0.002	ug/L
BF14674	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.12	0.020	0.002	0.002	ug/L
BF14674	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.327	0.005	0.3	0.3	mg/L
BF14674	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	31.5	0.01	0.3	0.3	mg/L
BF14674	HYDROSUL	Hydrogen Sulfide	NY / TOGS - Water Quality / GA Criteria	BRL	0.05	0.005	0.005	mg/L
BF14674	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	0.476	0.005	0.3	0.3	mg/L
BF14675	$DP8260_TCLR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	4.1	1.0	2	2	ug/L
BF14675	$DP8260_TCLR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	4.1	1.0	2	2	ug/L
BF14675	$DP8260_TCLR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	13	1.0	5	5	ug/L
BF14675	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BF14675	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14675	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14675	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14675	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF14675	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF14675	$DPWM_TCLR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BF14675	$DPWM_TCLR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L

Wednesday, August 14, 2013

Requested Criteria: GW

State: NY

Sample Criteria Exceedences Report

GBF14672 - AFI-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14675	$DPWM_TCLR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BF14675	$DPWM_TCLR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF14675	$DPWM_TCLR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14675	$DPWM_TCLR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14675	$DPWM_TCLR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14675	$DPWM_TCLR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14675	$DPWM_TCLR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14675	$DPWM_TCLR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14675	$DPWM_TCLR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14675	$DPWM_TCLR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14675	$DPWM_TCLR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14675	$DPWM_TCLR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14675	$DPWM_TCLR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14675	$DPWM_TCLR	2,3,4,6-tetrachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14675	$DPWM_TCLR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF14675	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.16	0.020	0.002	0.002	ug/L
BF14675	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.16	0.020	0.002	0.002	ug/L
BF14675	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.22	0.020	0.002	0.002	ug/L
BF14675	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.22	0.020	0.002	0.002	ug/L
BF14675	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.39	0.020	0.002	0.002	ug/L
BF14675	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.39	0.020	0.002	0.002	ug/L
BF14675	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.12	0.020	0.002	0.002	ug/L
BF14675	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.12	0.020	0.002	0.002	ug/L
BF14675	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.19	0.020	0.002	0.002	ug/L
BF14675	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.17	0.020	0.002	0.002	ug/L
BF14675	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.17	0.020	0.002	0.002	ug/L
BF14676	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BF14676	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14676	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14676	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14676	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF14676	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF14677	$DP8260_TCLR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	16	1.0	2	2	ug/L

Wednesday, August 14, 2013

Sample Criteria Exceedences Report

GBF14672 - AFI-ENV

Requested Criteria: GW
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14677	$DP8260_TCLR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	16	1.0	2	2	ug/L
BF14677	$DP8260_TCLR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	63	10	5	5	ug/L
BF14677	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BF14677	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14677	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14677	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14677	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF14677	$DP8260_TCLR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	9.7	1.0	5	5	ug/L
BF14677	$DP8260_TCLR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	9.7	1.0	5	5	ug/L
BF14677	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF14677	$DPWM_TCLR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BF14677	$DPWM_TCLR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BF14677	$DPWM_TCLR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF14677	$DPWM_TCLR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14677	$DPWM_TCLR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14677	$DPWM_TCLR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14677	$DPWM_TCLR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14677	$DPWM_TCLR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14677	$DPWM_TCLR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14677	$DPWM_TCLR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14677	$DPWM_TCLR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14677	$DPWM_TCLR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14677	$DPWM_TCLR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14677	$DPWM_TCLR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14677	$DPWM_TCLR	2,3,4,6-tetrachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14677	$DPWM_TCLR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF14677	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	4.2	0.020	0.002	0.002	ug/L
BF14677	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	4.2	0.020	0.002	0.002	ug/L
BF14677	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	4.5	0.020	0.002	0.002	ug/L

Sample Criteria Exceedences Report

GBF14672 - AFI-ENV

Requested Criteria: GW
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14677	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	4.5	0.020	0.002	0.002	ug/L
BF14677	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	6.5	0.020	0.002	0.002	ug/L
BF14677	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	6.5	0.020	0.002	0.002	ug/L
BF14677	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	2.1	0.020	0.002	0.002	ug/L
BF14677	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	2.1	0.020	0.002	0.002	ug/L
BF14677	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	4.2	0.020	0.002	0.002	ug/L
BF14677	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	2.7	0.020	0.002	0.002	ug/L
BF14677	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	2.7	0.020	0.002	0.002	ug/L
BF14677	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.697	0.005	0.3	0.3	mg/L
BF14677	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	32.4	0.01	0.3	0.3	mg/L
BF14677	HYDROSUL	Hydrogen Sulfide	NY / TOGS - Water Quality / GA Criteria	BRL	0.05	0.005	0.005	mg/L
BF14677	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	1.07	0.005	0.3	0.3	mg/L
BF14678	$DP8260_TCLR	Dichlorodifluoromethane	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	Chloromethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	4100	500	2	2	ug/L
BF14678	$DP8260_TCLR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	4100	500	2	2	ug/L
BF14678	$DP8260_TCLR	Bromomethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	Chloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	50	50	ug/L
BF14678	$DP8260_TCLR	Chloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	Trichlorofluoromethane	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	1,1-Dichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	46	50	5	5	ug/L
BF14678	$DP8260_TCLR	1,1-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	46	50	5	5	ug/L
BF14678	$DP8260_TCLR	Trichlorotrifluoroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	Trichlorotrifluoroethane	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	Acetone	NY / TAGM - Volatile Organics / Groundwater Standards	53	250	50	50	ug/L
BF14678	$DP8260_TCLR	Acetone	NY / TOGS - Water Quality / GA Criteria	53	250	50	50	ug/L
BF14678	$DP8260_TCLR	Methylene chloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	150	5	5	ug/L
BF14678	$DP8260_TCLR	Methylene chloride	NY / TOGS - Water Quality / GA Criteria	ND	150	5	5	ug/L
BF14678	$DP8260_TCLR	trans-1,2-Dichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	47	100	5	5	ug/L
BF14678	$DP8260_TCLR	trans-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	47	100	5	5	ug/L
BF14678	$DP8260_TCLR	1,1-Dichloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	1,1-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	35000	5000	5	5	ug/L
BF14678	$DP8260_TCLR	Bromochloromethane	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	Chloroform	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	7	7	ug/L
BF14678	$DP8260_TCLR	Chloroform	NY / TOGS - Water Quality / GA Criteria	ND	100	7	7	ug/L
BF14678	$DP8260_TCLR	1,1,1-Trichloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	1,1,1-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	Carbon tetrachloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	Carbon tetrachloride	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	35	0.7	0.7	ug/L

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SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14678	$DP8260_TCLR	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	35	1	1	ug/L
BF14678	$DP8260_TCLR	1,2-Dichloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	0.6	0.6	ug/L
BF14678	$DP8260_TCLR	Trichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	1600	500	5	5	ug/L
BF14678	$DP8260_TCLR	Trichloroethene	NY / TOGS - Water Quality / GA Criteria	1600	500	5	5	ug/L
BF14678	$DP8260_TCLR	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BF14678	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	50	0.4	0.4	ug/L
BF14678	$DP8260_TCLR	Toluene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	Toluene	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	50	0.4	0.4	ug/L
BF14678	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1	ug/L
BF14678	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	50	0.0006	0.0006	ug/L
BF14678	$DP8260_TCLR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	4900	500	5	5	ug/L
BF14678	$DP8260_TCLR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	4900	500	5	5	ug/L
BF14678	$DP8260_TCLR	Chlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	Chlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	Ethylbenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	Ethylbenzene	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	o-Xylene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	o-Xylene	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	Styrene	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	1,1,2,2-Tetrachloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	1,1,2,2-Tetrachloroethane	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	1,3-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	1,3-Dichlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	100	3	3	ug/L
BF14678	$DP8260_TCLR	1,4-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14678	$DP8260_TCLR	1,2-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	4.7	4.7	ug/L
BF14678	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	50	0.04	0.04	ug/L
BF14678	$DP8260_TCLR	Total Xylenes	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14678	$DP8260_TCLR	Total Xylenes	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14678	$DPWM_TCLR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BF14678	$DPWM_TCLR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L

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SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14678	$DPWM_TCLR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF14678	$DPWM_TCLR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14678	$DPWM_TCLR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14678	$DPWM_TCLR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14678	$DPWM_TCLR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14678	$DPWM_TCLR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14678	$DPWM_TCLR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14678	$DPWM_TCLR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14678	$DPWM_TCLR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14678	$DPWM_TCLR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14678	$DPWM_TCLR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14678	$DPWM_TCLR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14678	$DPWM_TCLR	2,3,4,6-tetrachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14678	$DPWM_TCLR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF14678	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.5	0.020	0.002	0.002	ug/L
BF14678	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.5	0.020	0.002	0.002	ug/L
BF14678	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.52	0.020	0.002	0.002	ug/L
BF14678	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.52	0.020	0.002	0.002	ug/L
BF14678	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.6	0.020	0.002	0.002	ug/L
BF14678	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.6	0.020	0.002	0.002	ug/L
BF14678	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.19	0.020	0.002	0.002	ug/L
BF14678	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.19	0.020	0.002	0.002	ug/L
BF14678	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.42	0.020	0.002	0.002	ug/L
BF14678	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.28	0.020	0.002	0.002	ug/L
BF14678	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.28	0.020	0.002	0.002	ug/L
BF14678	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.528	0.005	0.3	0.3	mg/L
BF14678	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	16.0	0.01	0.3	0.3	mg/L
BF14678	HYDROSUL	Hydrogen Sulfide	NY / TOGS - Water Quality / GA Criteria	BRL	0.05	0.005	0.005	mg/L
BF14678	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	0.596	0.005	0.3	0.3	mg/L
BF14679	$DP8260_TCLR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	17	1.0	5	5	ug/L
BF14679	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BF14679	$DP8260_TCLR	Trichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	5.8	1.0	5	5	ug/L
BF14679	$DP8260_TCLR	Trichloroethene	NY / TOGS - Water Quality / GA Criteria	5.8	1.0	5	5	ug/L
BF14679	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14679	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14679	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14679	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L

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SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14679	$DP8260_TCLR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	110	20	5	5	ug/L
BF14679	$DP8260_TCLR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	110	20	5	5	ug/L
BF14679	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF14679	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.32	0.005	0.3	0.3	mg/L
BF14679	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	20.1	0.01	0.3	0.3	mg/L
BF14679	HYDROSUL	Hydrogen Sulfide	NY / TOGS - Water Quality / GA Criteria	BRL	0.05	0.005	0.005	mg/L
BF14679	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	1.64	0.005	0.3	0.3	mg/L
BF14680	$DP8260_TCLR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	160	20	2	2	ug/L
BF14680	$DP8260_TCLR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	160	20	2	2	ug/L
BF14680	$DP8260_TCLR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	67	20	5	5	ug/L
BF14680	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BF14680	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14680	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14680	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14680	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF14680	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF14680	$DPWM_TCLR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BF14680	$DPWM_TCLR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BF14680	$DPWM_TCLR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF14680	$DPWM_TCLR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14680	$DPWM_TCLR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14680	$DPWM_TCLR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14680	$DPWM_TCLR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14680	$DPWM_TCLR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14680	$DPWM_TCLR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14680	$DPWM_TCLR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L
BF14680	$DPWM_TCLR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14680	$DPWM_TCLR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	25	5	5	ug/L

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SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14680	$DPWM_TCLR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	25	5	5	ug/L
BF14680	$DPWM_TCLR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	25	1	1	ug/L
BF14680	$DPWM_TCLR	2,3,4,6-tetrachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF14680	$DPWM_TCLR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF14680	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.17	0.020	0.002	0.002	ug/L
BF14680	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.17	0.020	0.002	0.002	ug/L
BF14680	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.19	0.020	0.002	0.002	ug/L
BF14680	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.19	0.020	0.002	0.002	ug/L
BF14680	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.28	0.020	0.002	0.002	ug/L
BF14680	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.28	0.020	0.002	0.002	ug/L
BF14680	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.07	0.020	0.002	0.002	ug/L
BF14680	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.07	0.020	0.002	0.002	ug/L
BF14680	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.2	0.020	0.002	0.002	ug/L
BF14680	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.13	0.020	0.002	0.002	ug/L
BF14680	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.13	0.020	0.002	0.002	ug/L
BF14681	$DP8260_TCLR	Dichlorodifluoromethane	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	Chloromethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	340	50	2	2	ug/L
BF14681	$DP8260_TCLR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	340	50	2	2	ug/L
BF14681	$DP8260_TCLR	Bromomethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	Chloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	50	50	ug/L
BF14681	$DP8260_TCLR	Chloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	Trichlorofluoromethane	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	1,1-Dichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	40	50	5	5	ug/L
BF14681	$DP8260_TCLR	1,1-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	40	50	5	5	ug/L
BF14681	$DP8260_TCLR	Trichlorotrifluoroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	Trichlorotrifluoroethane	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	Acetone	NY / TAGM - Volatile Organics / Groundwater Standards	ND	250	50	50	ug/L
BF14681	$DP8260_TCLR	Acetone	NY / TOGS - Water Quality / GA Criteria	ND	250	50	50	ug/L
BF14681	$DP8260_TCLR	Methylene chloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	150	5	5	ug/L
BF14681	$DP8260_TCLR	Methylene chloride	NY / TOGS - Water Quality / GA Criteria	ND	150	5	5	ug/L
BF14681	$DP8260_TCLR	trans-1,2-Dichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	50	100	5	5	ug/L
BF14681	$DP8260_TCLR	trans-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	50	100	5	5	ug/L
BF14681	$DP8260_TCLR	1,1-Dichloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	1,1-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	13000	500	5	5	ug/L
BF14681	$DP8260_TCLR	Bromochloromethane	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	Chloroform	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	7	7	ug/L
BF14681	$DP8260_TCLR	Chloroform	NY / TOGS - Water Quality / GA Criteria	ND	100	7	7	ug/L
BF14681	$DP8260_TCLR	1,1,1-Trichloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	1,1,1-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L

Sample Criteria Exceedences Report

GBF14672 - AFI-ENV

Requested Criteria: GW
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14681	$DP8260_TCLR	Carbon tetrachloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	Carbon tetrachloride	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	35	0.7	0.7	ug/L
BF14681	$DP8260_TCLR	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	35	1	1	ug/L
BF14681	$DP8260_TCLR	1,2-Dichloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	0.6	0.6	ug/L
BF14681	$DP8260_TCLR	Trichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	980	50	5	5	ug/L
BF14681	$DP8260_TCLR	Trichloroethene	NY / TOGS - Water Quality / GA Criteria	980	50	5	5	ug/L
BF14681	$DP8260_TCLR	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BF14681	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	50	0.4	0.4	ug/L
BF14681	$DP8260_TCLR	Toluene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	Toluene	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	50	0.4	0.4	ug/L
BF14681	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1	ug/L
BF14681	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	50	0.0006	0.0006	ug/L
BF14681	$DP8260_TCLR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	600	50	5	5	ug/L
BF14681	$DP8260_TCLR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	600	50	5	5	ug/L
BF14681	$DP8260_TCLR	Chlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	Chlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	Ethylbenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	Ethylbenzene	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	o-Xylene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	o-Xylene	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	Styrene	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	1,1,2,2-Tetrachloroethane	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	1,1,2,2-Tetrachloroethane	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	1,3-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	1,3-Dichlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	100	3	3	ug/L
BF14681	$DP8260_TCLR	1,4-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	5	5	ug/L
BF14681	$DP8260_TCLR	1,2-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	4.7	4.7	ug/L
BF14681	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	50	0.04	0.04	ug/L
BF14681	$DP8260_TCLR	Total Xylenes	NY / TAGM - Volatile Organics / Groundwater Standards	ND	50	5	5	ug/L
BF14681	$DP8260_TCLR	Total Xylenes	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF14681	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	2.76	0.053	0.3	0.3	mg/L
BF14681	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	68.7	0.01	0.3	0.3	mg/L
BF14681	HYDROSUL	Hydrogen Sulfide	NY / TOGS - Water Quality / GA Criteria	BRL	0.05	0.005	0.005	mg/L
BF14681	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	3.63	0.050	0.3	0.3	mg/L
BF14682	$DP8260_TCLR	Methylene chloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	6.0	5	5	ug/L
BF14682	$DP8260_TCLR	Methylene chloride	NY / TOGS - Water Quality / GA Criteria	ND	6.0	5	5	ug/L
BF14682	$DP8260_TCLR	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	1.4	0.7	0.7	ug/L

Wednesday, August 14, 2013

Sample Criteria Exceedences Report

GBF14672 - AFI-ENV

Requested Criteria: GW
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF14682	$DP8260_TCLR	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	1.4	1	1	ug/L
BF14682	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	4.0	0.6	0.6	ug/L
BF14682	$DP8260_TCLR	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14682	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.4	0.4	ug/L
BF14682	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.4	0.4	ug/L
BF14682	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	4.0	1	1	ug/L
BF14682	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.0006	0.0006	ug/L
BF14682	$DP8260_TCLR	1,3-Dichlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	4.0	3	3	ug/L
BF14682	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04	ug/L
BF14682	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.371	0.005	0.3	0.3	mg/L
BF14682	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	7.90	0.01	0.3	0.3	mg/L
BF14682	HYDROSUL	Hydrogen Sulfide	NY / TOGS - Water Quality / GA Criteria	BRL	0.05	0.005	0.005	mg/L
BF14682	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	0.443	0.005	0.3	0.3	mg/L
BF14683	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BF14683	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14683	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14683	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14683	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF14683	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF14684	$DP8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BF14684	$DP8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14684	$DP8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BF14684	$DP8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	1	1	ug/L
BF14684	$DP8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF14684	$DP8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

August 14, 2013

SDG I.D.: GBF14672

The samples in this delivery group were received at 12°C.
(Note acceptance criteria is above freezing up to 6°C)

PHOENIX
Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 12 w/ ice Pg 1 of 2

Data Delivery:
☐ Fax #:
☑ Email: Captbillsdiving@roadrunner.com

Customer: AFI Environmental
Address: PO Box 4049
Niagara Falls, NY 14304

Project: A12B - Hertel
Report to: Elby Benton
Invoice to: 1100 Shetter Ave Suite 202
Jacksonville FL 32250

Project P.O.:
Phone #: 716 283 7645
Fax #: 716 283 2858

Client Sample - Information - Identification

Sampler's Signature

Date: 7-31-13

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	RSK-175	TCL VOCs	TCL SVOCs	EPA 300.0	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
14072	MW1-73113	GW	7313	9:30		X						2√						
14073	MW2-73113	GW	7-31-13	10:05		X						2√						
14074	MW3-73113	GW	7-31-13	9:49	X	X	X	X				4√	√1	√2				
14075	MW4-73113	GW	7-31-13	11:15		X	X					2√	√1					
14076	MW5-73113	GW	7-31-13	11:30		X						2√						
14077	MW6-73113	GW	7-31-13	10:55	X	X	X	X				4√	√1	√2				
14078	MW7-73113	GW	7-31-13	10:30	X	X	X	X				4√	√1	√2				
14079	MW8-73113	GW	7-31-13	10:48	X	X		X				4√		√2				
14080	MW9-73113	GW	7313	10:25		X	X					2√	√1					
14081	MW11-73113	GW	7-31-13	12:05	X	X		X				√4		2√				
14082	MW12-73113	GW	7-31-13	11:50	X	X		X				4√		2√				
14083	Dup-73113	GW	7-31-13	10:05		X						2√						

Relinquished by:	Accepted by:	Date:	Time:
		7-31-13	
Fedex	CParadise	8/1/13	1120

Comments, Special Requirements or Regulations:

-RSK-175 Need IRON And Manganese - TOTAL + DISSOLVED
EPA300.0 Nitrite, Sulphate, methane, ethane/ethene
and Hydrogen

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ 5 Days
☐ 10 Days
☐ Other

* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☒ TOGS GA GW
☐ CP-51 Soil
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

State where samples were collected: NY

Data Format
☐ Phoenix Std Report
☐ Excel
☐ PDF
☐ GIS/Key
☒ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other

Data Package
☐ NJ Reduced Deliv. *
☒ NY Enhanced (ASP B) *
☐ Other

PHOENIX
Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 12 cwic ic Pg 2 of 2

Data Delivery:
☐ Fax #:
☑ Email: Captbllsdiwy@ roadrunner.com

Customer: AFI Environment
Address: PO Box 4049
NIAgAraFalls, NY 14304

Project: A12B-Hertel-Env
Report to: Bill Hertzenlehr
Invoice to: 1100 Shetter Ave, Jackson

Project P.O: A12B-Hertel-Env
Phone #: 716-283-7645
Fax #: 716-283-2858

Client Sample - Information - Identification

Sampler's Signature _______ Date: 7-31-13

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	TCL VOCs		Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container ( )oz	GL Soil container ( )oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
~~14084~~	MS-73113	GW	7-31-13	10:05	X	} 14673				✓2						
~~14085~~	MSD-73113	GW	7-31-13	10:05	X					2✓						
* ~~14086~~	TBlank					14684				1						

Relinquished by:	Accepted by:	Date:	Time:
		7-31-13	
Fedex	Grandelise	8/1/13	1120

Comments, Special Requirements or Regulations:
NOTE! MS-73113 + MSD-73113 ARE SAme
Sample as MW-2-73113
*TB recieved. mjp

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☑ TOGS GA GW
☐ CP-51 Soil
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

State where samples were collected: NY

Data Format
☐ Phoenix Std Report
☐ Excel
☐ PDF
☐ GIS/Key
☑ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other

Data Package
☐ NJ Reduced Deliv. *
☑ NY Enhanced (ASP B) *
☐ Other

APPENDIX E

Health and Safety Plan (HASP)

Health & Safety Plan
(HASP)

Project Location:

HERTEL WAREHOUSE, Inc.
373 Hertel Avenue
Buffalo, New York 14207

Prepared By:

AFI Environmental
PO Box 4049
Niagara Falls, New York 14304
(716) 283-7645
www.afienvironmental.com

August 2014

Contents

Site Specific Health and Safety Plan for

HERTEL WAREHOUSE, INC.

Site Name: Hertel Warehouse, Inc.

Location: 373 Hertel Avenue, Buffalo, New York

Proposed Dates of Activities: September 2014 – December 31, 2015

Type of Facility: Former Chemical Recycling Facility

Land Use of Area Surrounding Facility: Vacant, Commercial, Rail, and Industrial

Site Activities:

1. Excavation of soil containing elevated levels of VOCs and SVOCs and TSCA (PCBs), RCRA, or other Potential Hazardous Materials.
2. Drilling of soil containing elevated levels of petroleum (gas, diesel fuel),VOCs, SVOCs and TSCA (PCBs), RCRA, or other Potential Hazardous Materials.
3. Sampling of soil and ground water containing elevated levels of petroleum (gas, diesel fuel), VOCs, SVOCs and TSCA (PCBs), RCRA, or other Potential Hazardous Materials.
4. Complete decontamination, washing and cleaning of all equipment and tools.

Potential Site Contaminants: possible undiscovered suspect or potential Regulated, Universal, TSCA, RCRA, or other Potential Hazardous Materials

Routes of Entry: Inhalation of airborne fibers, skin contact with soil, groundwater, or sediment; incidental ingestion of soil, water, or sediment; and inhalation of airborne droplets, dusts, or vapors

Protective Measures (Level D): Hard hat, safety glasses, gloves, protective clothing, steel-toed boots.

Protective Measures (Level C): Hard hat, safety glasses, gloves, protective clothing, steel-toed boots, disposable coveralls and respirators.

Work for this project will be conducted in Level C protection incorporating respiratory protection for all drilling, excavation and Sampling of Soils and ground water work and where required by site conditions and Level D protection for all other work. Situations requiring Levels A or B protection are not anticipated for this project; should they occur, work will stop and the HASP will be amended, as appropriate, prior to resuming work.

1.0 INTRODUCTION

This site-specific Health and Safety Plan (HASP) addresses procedures to minimize the risk of chemical exposures, physical accidents to onsite workers, and environmental contamination. This HASP has been developed by AFI Environmental (AFI) as a Site Specific Health and Safety Plan for compliance with the requirements of the Specified Site Work Hertel Warehouse, Inc.)

1.1 Purpose & Regulatory Compliance

The HASP covers each of the required elements as specified in 29 CFR 1910.120 regulations. This HASP will be made available to all AFI personnel and subcontractors involved in field work on this project. For subcontractors, this Health and Safety Plan (HASP) represents minimum safety procedures. Subcontractors are responsible for their own safety while present onsite or conducting work for this project. Subcontractor work may involve safety and health procedures not addressed in the HASP. The HASP was originally prepared by a Certified Industrial Hygienist and has been reviewed by AFI's Health and Safety Officer. By signing the documentation form provided with this plan (Attachment 2), project workers also certify their agreement to comply with the plan. Both AFI and its subcontractors are independently responsible for the health and safety of their own employees on the project.

1.2 Chain of Command

The AFI chain of command for health and safety on this project involves the following individuals:

AFI Environmental – Project Manager: William Heitzenrater – (716) 940-2725

The Senior Environmental in conjunction with the Site Supervisor has overall responsibility for the successful outcome of the project. The Senior Environmental Professional makes final decisions regarding questions concerning the implementation of the site HASP.

AFI Environmental – Project Director: Geoffrey Heitzenrater – (716) 909-7962

Project H&S Coordinator: Elbert Benton– (716) 622-1470

As the Project H&S Coordinator, this individual is responsible for implementing the HASP in the field. The Project H&S Coordinator informs subcontractors of the minimum requirements of this plan. This person will also assure that proper protective equipment is available and used in the correct manner, decontamination activities are carried out properly, and that employees have knowledge of the local emergency medical system.

The H&S Coordinator also has overall responsibility for preparation and modification of this HASP. In the event that health and safety issues arise during site operations, the H&S Coordinator will attempt to resolve them in discussion with the appropriate members of the project team.

Project Team Members

Project team members are responsible for understanding the H&S requirements for this project, and implementing these procedures in the field. Team members will receive technical guidance from the Project H&S Coordinator.

1.3 Site Work Activities

This HASP covers field site activities to be conducted throughout the project at **Hertel Warehouse, Inc.** The field activities associated with the project includes:

1. Excavation of soil containing elevated levels of VOCs and SVOCs and TSCA (PCBs), RCRA, or other Potential Hazardous Materials.
2. Drilling of soil containing elevated levels of petroleum (gas, diesel fuel),VOCs, SVOCs and TSCA (PCBs), RCRA, or other Potential Hazardous Materials.
3. Sampling of soil and ground water containing elevated levels of petroleum (gas, diesel fuel), VOCs, SVOCs and TSCA (PCBs), RCRA, or other Potential Hazardous Materials.
4. Complete decontamination, washing and cleaning of all equipment and tools.

1.4 Site Description

The property is located at 373 Hertel Avenue, Buffalo, New York. The site is the location of a vacant Warehouse and former site of Morgan Materials, a chemical recycling facility. The work being performed as the subject of this HASP is related to work being performed in accordance with the *Site Characterization & Interim Remedial Measures Report / Ex-Situ Chemical Oxidation Remedial Action Plan*.

Preliminary review of existing data and visual inspections performed by AFI staff does not indicate the presence of any RCRA, TSCA or other hazardous waste in the remaining debris onsite.

2.0 HAZARD EVALUATION AND CONTROL MEASURES

2.1 Potential Site Contaminates

Based on previous assessments of the project location the following wastes are a concern:

- Petroleum Contaminated Soils
- Soils and or ground water with elevated levels of chlorinated organics
- Soils with elevated concentrations of select metals including manganese.

2.2 Potential Exposure Routes

2.2.1 Inhalation

Inhalation of dusts or fugitive vapors generated during the installation of monitoring wells, test pits, soil excavation, removal and loading of soils. Exposure via this route could also potentially occur if chemicals are discovered during the sorting and segregating activities and vapors become airborne during site activities.

2.2.2 Skin Contact

Exposure via this route could potentially occur if chemicals are discovered during the sorting and segregating activities and contact the skin or clothing. Protective clothing and decontamination activities specified in this plan will minimize the potential for skin contact with the contaminants.

2.2.3 Ingestion

Exposure via this route could occur if individuals eat, drink, or perform other hand-to-mouth contact in the regulated work areas/exclusion zones. Decontamination procedures established in this plan will minimize the inadvertent ingestion of contaminants.

2.3 Heat Stress & Hypothermia

2.3.1 Heat Stress

Use of impermeable clothing reduces the cooling ability of the body due to evaporation reduction. This may lead to heat stress. If such conditions occur during site activities, appropriate work-rest cycles will be utilized and water or electrolyte-rich fluids (Gatorade or equivalent) will be made available to minimize heat stress effects.

Also, when ambient temperatures exceed 70°F, monitoring of employee pulse rates will be conducted. Each employee will check his or her pulse rate at the beginning of each break period. Take the pulse at the wrist for 6 seconds, and multiply by 10. If the pulse rate exceeds 110 beats per minute, then reduce the length of the next work period by one-third.

Example: After a 1-hour work period at 80˚F, a worker has a pulse rate of 120 beats per minute. The worker must shorten the next work period by one-third, resulting in a work period of 40 minutes until the next break.

2.3.2 Hypothermia

Hypothermia can result from abnormal cooling of the core body temperature. It is caused by exposure to a cold environment and wind-chill. Wetness or water immersion can also play a significant role.

Typical warning signs of hypothermia include fatigue, weakness, and lack of coordination, apathy, and drowsiness. A confused state is a key symptom of hypothermia. Shivering and pallor are usually absent, and the face may appear puffy and pink. Body temperatures below 90°F require immediate treatment to restore temperature to normal.

Current medical practice recommends slow re-warming as treatment for hypothermia, followed by professional medical care. This can be accomplished by moving the person into a sheltered area and wrapping with blankets in a warm room. In emergency situations, where body temperature falls below 90˚F and heated shelter is not available, use a sleeping bag, blankets, and body heat from another individual to help restore normal body temperature.

2.4 Other Physical Hazards

2.4.1 Slips/Falls

As with all field work sites, caution will be exercised to prevent slips on rain slick surfaces, stepping on sharp objects, etc. Work will not be performed on elevated platforms without fall protection. At least one person with current training in first aid and CPR will be onsite at all times.

2.4.2 Machinery/Moving Parts

The site will incorporate the use of concrete saws, excavators and other machines. These present a general physical hazard from moving parts. Personnel will stand clear of machinery at all times unless specific instructions are given by the operator, or other person in authority. Steel-toed shoes or boots will be worn at all times when on the site. When possible, appropriate guards will be in place during equipment use.

Any other equipment present on site may also present a physical hazard. Field personnel should be careful to keep loose clothing, hands, and feet away from moving equipment and equipment parts.

2.4.3 Confined Spaces

Confined space entry is not anticipated for this project. Personnel will not enter any confined space without specific approval of the Site Supervisor, Project Manager, Sr. Environmental Professional, and Project H&S Manager.

2.4.4 Noise

Appropriate hearing protection (ear muffs or ear plugs with a noise reduction rating of at least 20 dB) will be used if individuals work near high-noise generating equipment (> 85 dB). Determination of the need for hearing protection will be made by the Project H&S Coordinator.

3.0 PROTECTIVE EQUIPMENT AND AIR MONITORING

3.1 Protective Equipment

Work for this project will be conducted in Level C protection incorporating respiratory protection for all remediation work where levels of contaminates (indicated by elevated PID readings from personnel monitoring by use of Entry Rae's) and or by site conditions and Level D protection for all other work. Situations requiring Levels A or B protection are not anticipated for this project; should they occur, work will stop and the HASP will be amended, as appropriate, prior to resuming work.

Workers performing general site activities where skin contact with highly contaminated materials is unlikely and inhalation risks are not expected will wear hard hats, eye protection, gloves, and safety boots. Level D protection will consist of the following:

- Hard hats
- Safety glasses
- Steel-toed boots

Workers performing site activities where contaminated materials are present will wear hard hats, eye protection, safety boots, half-mask or full-face air-purifying respirators with P-100 HEPA and/or organic vapor cartridges, nitrile gloves and Tyvek or other disposable suits. Level C protection will consist of the following:

- Hard hats
- Safety glasses
- Steel-toed boots
- Half-mask or full-face air-purifying respirators with P-100 HEPA cartridges and organic vapor cartridges
- Nitrile gloves
- Tyvek or other disposable suits

When performing activities in which the presence of chemicals vapors and dusts could be a concern, workers will wear half-mask or full-face air-purifying respirators with combination cartridges and nitrile or other appropriate outer and inner gloves. Cartridges should be changed on a daily basis, at a minimum. They should be changed more frequently if chemical vapors are detected inside the respirator or other symptoms of breakthrough are noted (e.g., irritation, dizziness, breathing difficulty).

3.2 Air Monitoring

Negative Exposure Assessment Air Monitoring (NEA) will be conducted for each activity during remediation activities (well installation, test pit Investigation, sampling, removal and debris segregation, loading activities). The air monitoring pumps will be calibrated prior to each day's activity according to manufacturer's instructions. Calibration will be repeated at the end of the activity and recorded in the health and safety logbook or field notes. Air sampling will be conducted that is representative of both the 8-hour time weighted average and 30-minute short-term exposures limit to indicate compliance with the permissible exposure and excursion limits. Results of personal air sample analyses shall be available, verbally, within forty-eight (48) hours of sampling completion and shall be posted upon receipt.

An NEA will also be conducted at the beginning of the job for the Truck Driver function for purposes of Transporting waste from the Project. NEA confirmatory sampling on the Truck Driver function shall also be conducted 1 month after the initial Truck Driver NEA is completed.

4.0 SAFETY EQUIPMENT LIST

The following signs will be posted on the perimeter of the site near the entrance gate:

- Brownfield Cleanup Project Sign, if the project is entered into the BCP Program
- “All Visitors Must Report to the Office Trailer”
- “Hard Hat Area”
- “Authorized Personnel Only”
- “Personal Protective Equipment Required Beyond this Point”
- “Fire Extinguisher”
- Emergency Information
- Emergency Route Map

The following safety equipment will be available onsite inside the site field office:

- First aid kit
- Mobile telephone
- Disposal coveralls and gloves
- Safety glasses
- Hard hats
- Air monitoring instruments
- Half-face respirators with cartridges.
- Eye Wash station

5.0 EXCLUSION AREAS

Site control will be maintained by establishing clearly identified work zones. These will include the regulated remediation work area, exclusion zone, staging areas, and support zone, as discussed below.

5.1 Regulated Remediation Work Areas & Exclusion Zone

Regulated remediation work areas and exclusion zones will be established around each contaminated substance activity location. Only persons with appropriate training and authorization from the Project H&S Coordinator will enter this perimeter while work is being conducted. Maps for these areas will be available as these areas are established.

5.2 Contamination Reduction Zone

A contamination reduction zone will consist of a personal decontamination unit station that must be used by all remediation personnel to exit the regulated work area. A decontamination station with pad and filtration unit will be used by all vehicles prior to exiting an exclusion zone. The station will have the power washers and wash fluids necessary to decontaminate equipment leaving the exclusion zone. Care will be taken to prevent the spread of contamination from this area and all wash waters will be collected and filtered.

5.3 Support Zone

A support zone will be established outside the contamination reduction area to stage clean equipment, don protective clothing, take rest breaks, etc.

6.0 MINIMIZATION OF CONTAMINATION

To make the work zone procedure function effectively, the amount of equipment and number of personnel allowed in contaminated areas must be minimized. Do not kneel on contaminated ground, stir up unnecessary dust, or perform any practice that increases the probability of hand-to-mouth transfer of contaminated materials. Eating, drinking, chewing gum, smoking, or using smokeless tobacco is forbidden in the regulated abatement work areas and exclusion zone.

7.0 DECONTAMINATION

Decontamination is necessary to limit the migration of contaminants from the work zone(s) onto the site or from the site into the surrounding environment. Equipment and personnel decontamination are discussed in the following sections.

In the event hazardous materials are encountered, proper decontamination procedures will be employed to ensure that contaminated materials do not contact individuals and are not spread from the site. These procedures will also ensure that contaminated materials generated during site operations and during decontamination are managed appropriately. All non-disposable equipment will be decontaminated in the contamination reduction zone.

8.0 DISPOSAL OF CONTAMINATED MATERIALS

All disposable equipment and personal protective equipment will be rinsed inside the equipment room to remove gross contamination and placed inside of a 6 mil polyethylene bag or other appropriate containers. These disposable supplies and containers will be removed from the decontamination unit and properly labeled.

9.0 SITE SECURITY AND CONTROL

Site security and control will be the responsibility of the Project H&S Coordinator. The “buddy- system” will be used when working in designated hazardous areas. Any security or control problems will be reported to the client or appropriate authorities.

10.0 SPILL CONTAINMENT

Sources of bulk chemicals subject to spillage are not expected to be used in this project. Accordingly, a spill containment plan is not required for this project.

11.0 EMERGENCY RESPONSE PLAN

The Emergency Response Plan outlines the steps necessary for appropriate response to emergency situations. The following paragraphs summarize the key Emergency Response Plan procedures for this project.

11.1 Plan Content & Review

The principal hazards addressed by the Emergency Response Plan include the following: fire or explosion, medical emergencies, uncontrolled contaminant release, and situations such as the presence of chemicals above exposure guidelines or inadequate protective equipment for the hazards present. However, in order to help anticipate potential emergency situations, field personnel should always exercise caution and look for signs of potentially hazardous situations, including the following as examples:

- Visible or odorous chemical contaminants
- Drums or other containers
- General physical hazards (e.g., traffic, cranes, moving equipment, sharp or hot surfaces, slippery or uneven surfaces)
- Possible sources of radiation
- Live electrical wires or equipment; underground pipelines or cables; and poisonous or dangerous animals.

These and other potential problems should be anticipated and steps taken to avert problems before they occur. All personnel will certify (Attachment 2) that they are familiar with the contents of this plan and acknowledge their agreement to comply with the provisions of the plan.

The Emergency Response Plan will be reviewed during the onsite health and safety briefing so that all personnel will know what their duties are should an emergency occur.

11.2 Plan Implementation

The Project H&S Coordinator will act as the lead individual in the event of an emergency situation and evaluate the situation. This individual will determine the need to implement the emergency procedures, in concert with other resource personnel including client representatives, and the Project H&S Manager. Other onsite field personnel will assist the H&S Coordinator as required during the emergency.

If the Emergency Response Plan is implemented, the Project H&S Coordinator or designees are responsible for alerting all personnel at the affected area by use of a signal device (such as a hand-held air horn), visual, or shouted instructions, as appropriate.

Emergency evacuation routes and safe assembly areas will be identified and discussed in the onsite health and safety briefing, as appropriate. The buddy-system will be employed during evacuation to ensure safe escape, and the Project H&S Coordinator will be responsible for roll-call to account for all personnel.

11.3 Emergency Response Contacts

Site personnel must know whom to notify in the event of Emergency Response Plan implementation. The following information will be readily available at the site in a location known to all workers:

- Emergency Telephone Numbers: see list in Attachment 1
- Route to Nearest Hospital: see directions and map in Attachment 1

- Site Descriptions: see the description at the beginning of this plan

If a significant environmental release of contaminants occurs, the federal, state, and local agencies noted in this plan must be notified within 24 hours. Contact the Project Manager as soon as possible and he/she will be responsible for notifying agencies listed in Attachment 1. If the release to the environment includes navigable waters, also notify the National Response Center.

In the event of an emergency situation requiring implementation of the Emergency Response Plan (e.g., fire or explosion, serious injury, tank leak or other material spill, presence of chemicals above exposure guidelines, inadequate personnel protection equipment for the hazards present), cease all work immediately. Offer whatever assistance is required, but do not enter work areas without proper protective equipment. Workers not needed for immediate assistance will decontaminate per normal procedures (if possible) and leave the work area, pending approval by the Project H&S Coordinator for re-start of work. The following general emergency response safety procedures should be followed.

11.4 Fires

AFI's personnel will attempt to control only very small fires. If an explosion appears likely, evacuate the area immediately. If a fire occurs that cannot be readily controlled, then immediate intervention by the local fire department or other appropriate agency is imperative. Use these steps:

Contact 911 if a medical emergency occurs. If a worker leaves the site to seek medical attention, another worker should accompany the patient. When in doubt about the severity of an accident or exposure, always seek medical attention as a conservative approach. Notify the Project Manager of the outcome of the medical evaluation as soon as possible. For minor cuts and bruises, an onsite first aid kit will be available.

If a worker is seriously injured or becomes ill or unconscious, immediately request assistance from the emergency contact sources noted in the site-specific plan. Do not attempt to assist an unconscious worker in an untested confined space without applying confined space entry procedures or without using proper respiratory protection, such as a self-contained breathing apparatus.

In the event that a seriously injured person is also heavily contaminated, use clean plastic sheeting to prevent contamination of the inside of the emergency vehicle. Less severely injured individuals may also have their protective clothing carefully removed or cut off before transport to the hospital. If it is deemed appropriate to transport the victim to the hospital, follow the route map on Attachment 1.

11.5 Plan Documentation & Review

The Sr. Environmental Professional/Project Manager will notify the Project H&S Manager as soon as possible after an emergency situation has been stabilized. The Project Manager will also notify the appropriate client contacts, and regulatory agencies, if applicable. If an individual is injured, the Project Manager will file a detailed Accident Report with the Project H&S Manager within 24 hours.

The Project H&S Manager will critique the emergency response action following the event. The results of the critique will be used in to improve future Emergency Response Plans and actions.

12.0 MEDICAL SURVEILLANCE

A medical surveillance program has been instituted for AFI and will also be in effect for Subcontractor employees having exposures to hazardous substances. For AFI, exams are given before employment; annually, thereafter; and upon termination. Content of exams is determined by the Occupational Medicine physician, in compliance with applicable regulations, and is detailed in the AFI Health and Safety Program.

AFI adherers to a strict Respiratory Protection Plan, the plan requires annual training, medical surveillance, fit testing and daily fit checks, cartridge replacements, and cleaning.

Each team member will have under gone a physical examination as noted above in order to verify that he/she is physically able to use protective equipment, work in hot environments, and not be predisposed to occupationally induced disease. Additional exams may be needed to evaluate specific exposures or unexplainable illness.

ATTACHMENT 1

EMERGENCY INFORMATION

HOSPITAL Kenmore Mercy Hospital
2950 Elmwood
Buffalo, NY 14217
(716) 447-6100

DIRECTIONS:

1. Determine your location and call 911 if the situation warrants.
2. If the situation is not an emergency, but medical attention is required, get to your vehicle parked at the site and:

   1. Head northeast on Hertel Ave.
   2. Turn left onto Elmwood Ave. Destination will be on the left

TELEPHONE – Cellular telephones to be carried by each team member
EMERGENCY TRANSPORTATION SYSTEMS (Fire, Police, Ambulance) - 911

EMERGENCY ROUTES – Follow above
EMERGENCY CONTACTS –

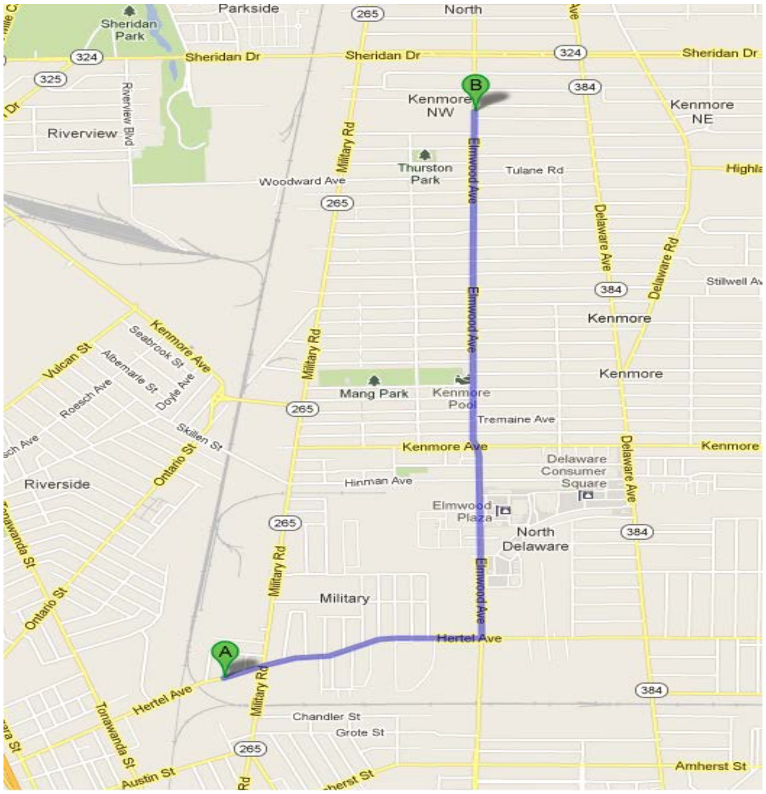
Poison Control Center	(800) 222-1222
Sr. Environmental Professional/Project Manager Bill Heitzenrater	(716) 940-2725
Project Director – Geoff Heitzenrater	(716) 909-7962
Project H&S Manager – Elbert Benton	(716) 622-1470
National Response Center	(800) 424-8802
NYS Spill Line	(800) 457-7632

In the event of an uncontrolled emergency, call for help as soon as possible. Dial **911**; give the following information:

- WHERE the emergency is – use cross streets or landmarks
- PHONE NUMBER you are calling from
- WHAT HAPPENED – type of injury
- HOW MANY persons need help
- WHAT is being done for the victim(s)
- YOU HANG UP LAST – let the person you called hang up first.

EMERGENCY ROUTE MAP

HOSPITAL Kenmore Mercy Hospital
2950 Elmwood
Buffalo, NY 142217



ATTACHMENT 2

CERTIFICATION

All field members are required to read and familiarize themselves with the contents of this Health & Safety Plan and acknowledge their agreement to comply with the provisions of the plan through the entry of a signature and date on the section below.

By my signature, I certify that:
I have read, I understand, and I will comply with this site health and safety plan for the Hertel Warehouse, Inc.

Printed Name	Signature	Date	Affiliation

Personal Health & Safety Briefing Conducted By:

Name ______________________ Signature ______________________ Date ______________________

Plan Prepared/Reviewed By:

Name ______________________ Signature ______________________ Date ______________________

APPENDIX F

Community Air Monitoring Plan (CAMP)

APPENDIX F

NYSDOH Generic Community Air Monitoring Plan (CAMP)

Project Location:

Hertel Warehouse
373 Hertel Avenue
Buffalo, New York 14207
Site No. 915210

Prepared By:

AFI Environmental
PO Box 4049
Niagara Falls, New York 14304
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www.afienvironmental.com

September 2014

9 2 14 rev1

Table of Contents

1.0 Introduction

The Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e.,dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intents to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified here in require increased monitoring, corrective actions to abate emissions, and/or work shut down. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

2.0 Community Air Monitoring Plan

2.1 Continuous monitoring

Continuous monitoring will be required for all ground intrusive activities. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, UST removal, test pitting or trenching, and the installation of soil borings or monitoring wells.

2.2 Periodic monitoring

Periodic monitoring for VOC's will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or over turning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location.

3.0 VOC Monitoring, Response Levels, and Actions

VOCs will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations will be measured at the start of each work day and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5ppm over background but less than 25ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less-but in no case less than 20 feet, is below 5 ppm over background for the15-minute average.
- If the organic vapor level is above 25ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings will be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

4.0 Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration will be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m3) greater than background (upwind perimeter) for the15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work may continue with dusts suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m3 above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150mcg/m 3 above the upwind level, work will be stopped and re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m3 of the upwind level and in preventing visible dust migration.

All 15-minute readings will be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.