

2012 PERIODIC REVIEW REPORT

Groundwater Monitoring and Sampling Results

153 Fillmore Avenue Site City of Tonawanda

2012 PERIODIC REVIEW REPORT GROUNDWATER MONITORING AND SAMPLING RESULTS

153 FILLMORE AVENUE SITE CITY OF TONAWANDA

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SECTION 1 - SITE BACKGROUND

1.1 Site Location

The site is located at the intersection of Fillmore Avenue and Freemont Street in the City of Tonawanda (Figure 1). The 1.7-acre parcel is bounded on the east by an active railroad line, to the north and south by small commercial/industrial operations, and on the west by Fillmore Avenue. The subject property is located in a small industrial area adjacent to a residential neighborhood.

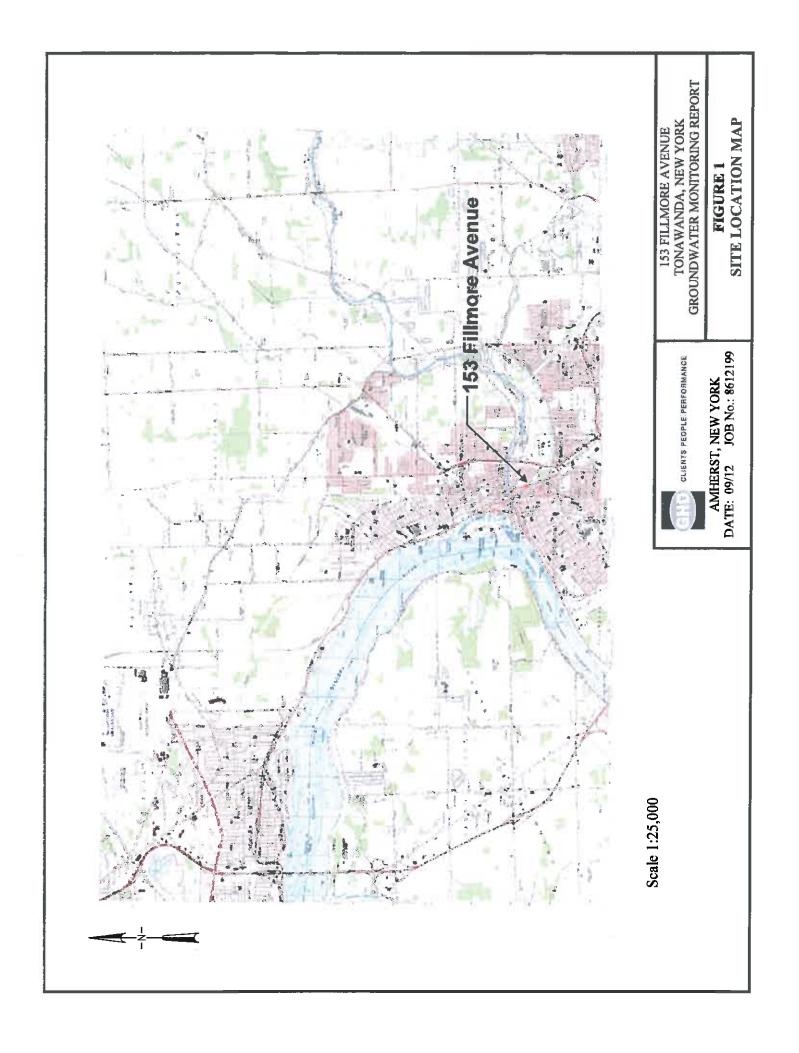
1.2 Site History

City directories for the period between 1946 to 1957, list Tonawanda Roofing and Paint Company at 141 Fillmore Avenue (adjacent property immediately north of site) and National Manufacturing Corporation at 153 Fillmore under Roofing Materials and Supplies. This is consistent with reports from local workers in the area that roofing materials were produced at the National Manufacturing site and installed by Tonawanda Roofing and Paint. This is further supported by the presence of four large ASTs and associated piping on the site that contain heavy, viscous, tarlike material.

In 1957, National Manufacturing Corporation added paint manufacturing facilities at the subject property. Raw materials for paint production were shipped to the facility in bulk and were stored in above-ground storage tanks (ASTs) located in the tank rooms or underground storage tanks (USTs). The raw materials were transferred from the tank rooms to the manufacturing room where the paint was produced. The finished paint was then transferred to the warehouse where it was stored prior to shipment. National Manufacturing Corporation closed the facility in 1981.

In 1981, Envirotek Ltd, a solvent recycling company, reopened the facility as a Resource Conservation and Recovery Act (RCRA) treatment, storage, and disposal (TSD) facility. Containers of RCRA hazardous wastes were transported to the facility where they were stored pending reshipment to a RCRA disposal facility. Containers of RCRA characteristic ignitable, corrosive, and toxic hazardous wastes were stored at the facility from 1981 to 1986. A number of containers were left at the facility when Envirotek Ltd abandoned the facility in 1988.

NYSDEC contacted the United States Environmental Protection Agency (USEPA) concerning the subject property on June 29, 1987. The USEPA conducted a preliminary assessment (PA)



under the Comprehensive Environmental Response, Compensation and Liabilities Act (CERCLA) on November 29-30, 1988 to determine if the subject property should be included on the National Priority List (NPL). The PA disclosed that an estimated 770 55-gallon drums and 1,000 smaller containers of RCRA flammable, combustible, and corrosive hazardous wastes that were present on the subject property. Several process vessels, four large ASTs, two UST's, and six transformers were also present at the subject property.

On July 18, 1989 the USEPA initiated remedial action activities at the site. These initial remedial action activities were completed on October 15, 1990, and included:

- the identification and categorization of all RCRA hazardous wastes;
- repackaging of 31,165 gallons of liquids and 11,655 pounds of solids and shipping off-site for incineration;
- · repackaging 204 cubic yards of solids and shipping off-site for land disposal; and,
- repackaging 61,975 pounds of solids and shipping off-site for recycling.

A summary of remedial action activities are presented in a report entitled, "Federal On-Scene Coordinator's Report – Envirotek 1, Tonawanda, Erie County, New York," prepared by Roy F. Weston, Inc. and dated November 1990.

The NYSDEC conducted a limited site investigation in November 1997. This investigation was intended to determine if the site posed a significant threat to human health or the environment. This investigation consisted of the collection of soil samples from the site and surface water samples from Ellicott Creek.

The results of this investigation indicated no impairment of the Creek sediments or surface waters associated with the site. Analytical results of surface soils detected exceedances of NYSDEC soil cleanup objectives for (polynuclear aromatic hydrocarbons (PAHs), PCBs, and numerous metals. The highest concentrations were observed in the northeast corner of the site.

A Site Investigation/Remedial Alternatives Report was completed by URS Corporation in 2002 indicating that the primary contaminants on-site were volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). These contaminants were present in surface and subsurface soils, and groundwater. Some metals and minor concentrations of PCBs were detected in surface soils.

The remedial activities completed at 153 Fillmore Avenue were separated into two phases. Phase I, completed in 2001, consisted of the demolition and removal of various structures, the removal of three (3) underground storage tanks, backfilling with clean material, and the stockpiling of contaminated soil. Phase II, completed in October 2002, consisted of the following:

- 1. Excavation, removal, and disposal of contaminated soils from Phase I.
- 2. Decontamination and removal of four (4) above ground storage tanks.
- 3. Removal and disposal of ACM coatings on tanks.
- 4. Removal of piping, supports and associated structures.
- 5. Sampling, analysis, and characterization of site materials.
- 6. Removal and off-site disposal of 11.6 tons of hazardous materials
- 7. 200 CY of concrete crushed and placed as fill material.
- 8. Installation of 1-foot of clean cover material over the entire site of clay and topsoil.
- 9. Asphalt paving for two (2) parking areas.

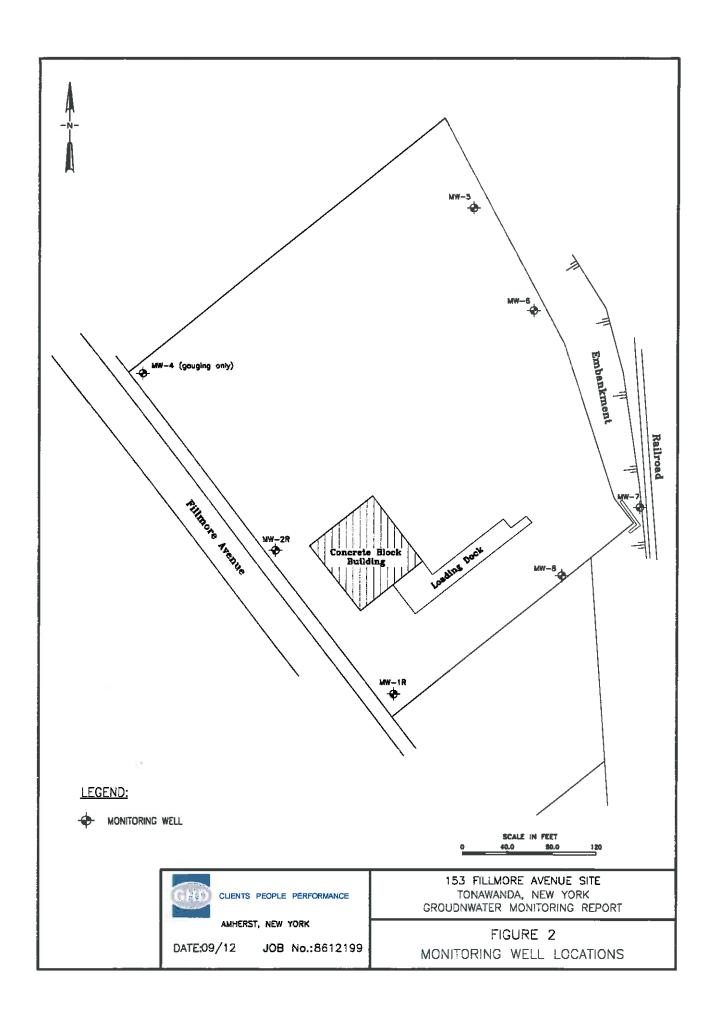
A Site Management Plan was completed after Site Investigation/Remedial Alternatives Report detailing a Groundwater Monitoring Plan. The Groundwater Monitoring Plan required annual sampling of the five down-gradient wells (MW-1 through MW-4) and MW-8 and biennial sampling of potential source wells (MW-5 through MW-7).

SECTION 2 - GROUNDWATER MONITORING ACTIVITIES

The 2012 monitoring program at the 153 Fillmore Avenue Site in the City of Tonawanda consisted of one annual sampling event completed on July 24, 2012. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-5, MW-6, MW-7, and MW-8, located on the perimeter of the property as presented in Figure 2.

Groundwater samples were collected using low-flow purging and sampling techniques. Prior to sampling, each monitoring well was purged using a peristaltic pump and dedicated tubing until parameters of pH, conductance, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP) stabilized, which provided an indication that water drawn from the well is representative of the groundwater in the surrounding formation. The results of these field parameters are presented on Table 1. The groundwater field sampling logs that were used to record field information at each sampling point are provided in Appendix A. After the field parameters stabilized, samples were collected with a disposable bailer into sample containers provided by the laboratory.

Purge water generated during the groundwater sampling activities was emptied on-site away from the sampled well. Quality control samples, including a trip blank, a field blank, a matrix spike and matrix spike duplicate, and a field duplicate were collected during the sampling event. Samples were delivered under a chain of custody to Upstate Laboratories, Inc. of Syracuse, New York for analysis of VOCs, SVOCs and Target Analyte List (TAL) Metals under CLP protocols with ASP Deliverable B test results. Pesticides and PCBs were not required to be tested during the 2012 sampling event.



SECTION 3 - GROUNDWATER MONITORING RESULTS

This section includes the results of the 2012 annual groundwater sampling event. Included are descriptions of site-specific hydrogeology, the identification and distribution of constitutes present in groundwater, and a comparison of historical data. Constitutes were compared to the applicable NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) Groundwater Standards and Guidance Values.

3.1 Site Hydrogeology

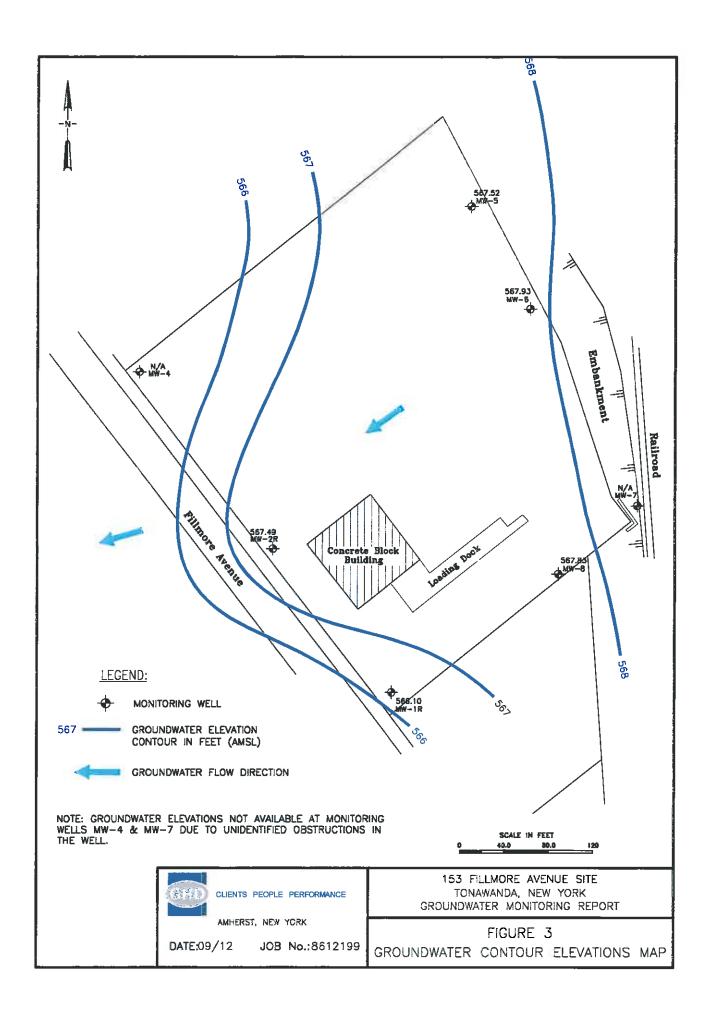
Groundwater levels were collected at each monitoring well and are presented in Table 2. Figure 3 illustrates the groundwater elevation contours based on the groundwater levels measured on July 24, 2012. The groundwater elevation data indicates that groundwater flows toward the west. The up gradient monitoring well is identified as monitoring well MW-7.

3.2 Groundwater Analytical Results

A summary of the compounds detected in groundwater during the 2012 Groundwater Sampling Event is presented on Tables 3, 4 and 5. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998, Class GA was used for the reporting limits. The groundwater samples were analyzed for volatiles, semi-volatiles, and metals on the Target Compound List (TCL). Laboratory analytical data reports are provided in Appendix B. Historical groundwater analytical test data is presented on Tables 3, 4 and 5. Historical groundwater total VOC concentration Figures displaying the lateral extent of the total VOC concentration plume from the sampling events of July, 2012, July 2011, July 2010, July 2009, August 2008, July 2007, and October 2001 are provided in Appendix C.

3.2.1 Volatile Organic Analytical Test Results

The volatile organic analytical test results for the sampling event of 2012 varied depending on the monitoring well and specific compounds detected in groundwater in comparison with previous sampling events. Results showed increasing and decreasing volatile organic concentrations when comparing test data from all sampling events. The volatile organic analytical test results detected concentrations of vinyl chloride (MW-1, MW-2, MW-7 and MW-8), cis-1,2-dichloroethene (MW-1, MW-7 and MW-8), benzene (MW-2 and MW-8) exceeding groundwater quality standards as presented in Table 3.



Vinyl chloride: Detected concentrations of vinyl chloride increased in groundwater sampled from monitoring wells MW-1 and MW-7 which represented concentrations exceeding the groundwater quality standard. The concentrations of vinyl chloride decreased at monitoring wells MW-2 and MW-8, but remained above the groundwater quality standard. Detected concentrations of vinyl chloride exceeded groundwater quality standards for all sampling events in at least one well.

Cis-1,2-dichloroethene: Detected concentrations of cis-1,2-dichloroethene increased in groundwater samples from monitoring wells MW-1 and MW-7, which represented concentrations exceeding the groundwater quality standard. The concentration of cis-1,2-dichloroethene decreased at monitoring well MW-8, but remained above the groundwater quality standard. Detected concentrations of cis-1,2-dichloroethene exceeded groundwater quality standards for all sampling events in at least one well.

Trans-1,2-dichloroethene: Detected concentration of trans-1,2-dichloroethene decreased in groundwater sampled at monitoring well MW-8. The concentration of trans-1,2-dichloroethene at monitoring well MW-8 decreased from the 2011 sampling event and was detected below the groundwater quality standard.

Benzene: Detected concentrations of benzene decreased in groundwater sampled from monitoring wells MW-2 and MW-8 which represented concentrations exceeding the groundwater quality standard.

Trichloroethene: Detected concentrations of trichloroethene increased in groundwater sampled from monitoring well MW-7 which represented concentrations that did not exceeded the groundwater quality standard.

Acetone: Detected concentrations of acetone increased in groundwater sampled from monitoring well MW-7 which represented concentrations that did not exceeded the groundwater quality standard.

As presented in the historical total VOC concentration groundwater plume figures in Appendix C, the total VOC plume has migrated in a westward direction over time in a similar direction as the groundwater flow. The following observations have been made in regard to plume migration and movement.

The October 2001 figure shows a total VOC concentration plume that is centered on the east side of the site with total VOC concentrations of approximately 2,681 ppb detected in groundwater from monitoring well MW-7.

The total VOC concentration plume from the 2007 sampling event indicates decreasing total VOC concentration plumes centered on monitoring well MW-7.

In 2008, the center of the total VOC concentration plume migrated in a westward direction due to higher VOC concentrations detected in groundwater monitoring wells MW-6 and MW-8.

In 2009, the total VOC concentration plume expanded westward with the addition of sampling and test results from monitoring wells MW-1 and MW-2.

In 2010, the total VOC concentration plume remained similar to the 2009 total VOC concentration plume, however, shows decreased VOCs present at monitoring well MW-6.

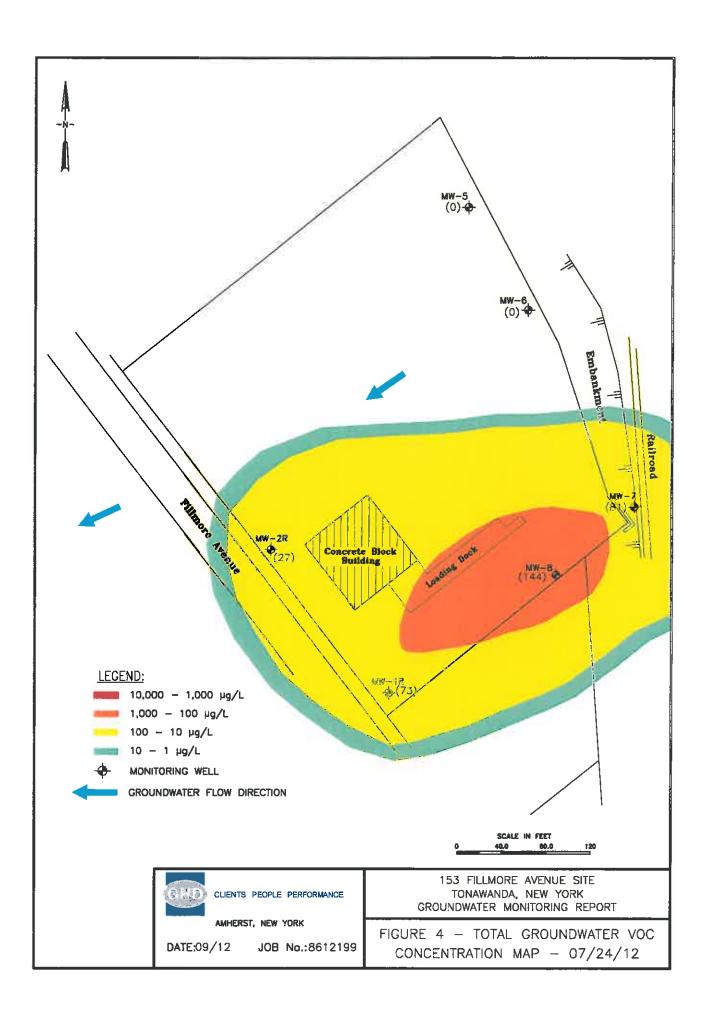
In 2011, the total VOC plume migrated further west with test results from sampling detecting increased total VOC concentrations in monitoring well MW-1. Total VOCs continued to decrease to non-detect results at monitoring well MW-6.

In 2012, the total VOC plume increased in VOC concentrations in monitoring well MW-1 for the third year. Plume migration appears to have moved southwest since total VOC concentrations in monitoring well MW-1 have increased every year from 2009 to 2012 as presented below:

- 2009 5.5 ug/l
- 2010 16.0 ug/l
- 2011 26.0 ug/l
- 2012 73.0 ug/l

The following observations have been made regarding total VOC concentrations:

- There was no VOC test data from monitoring wells MW-1 and MW-2 during the 2007 and 2008 sampling events as the wells were nonfunctional until being re-drilled in 2009.
- Total VOC concentrations increased consistently in groundwater monitoring well MW-8 from the 2001 through the 2009 sampling events.



- Total VOC concentration in monitoring well MW-8 decreased in 2010, 2011, and 2012 as presented in Figure 4.
- Total VOC concentration in monitoring well MW-2 decreased in 2010, 2011, and 2012 as presented in Figure 4.
- Total VOC concentration in monitoring well MW-1 and MW-7 increased in 2012 as presented in Figure 4.

3.2.2 Semi-Volatile Organic Analytical Test Results

The semi-volatile organic analytical test results for the sampling event of 2012 varied depending on the monitoring well location and specific compounds detected in groundwater in comparison with previous sampling events. Results showed increasing and decreasing semi-volatile organic concentrations when comparing data with 2011 test results. The semi-volatile organic analytical test results are presented in Table 4.

Acenaphthene: Detected concentrations of acenaphthene increased in groundwater sampled from monitoring wells MW-2, MW-5, MW-6, MW-7 and MW-8. Concentrations of acenaphthene did not exceed the groundwater quality standard.

Bis(2-ethylhexyl)phthalate: Detected concentrations of bis(2-ethylhexyl)phthalate increased in groundwater sampled from monitoring wells MW-2 and MW-7 exceeding the groundwater quality standard. Detected concentrations of bis(2-ethylhexyl)phthalate decreased in groundwater sampled from monitoring well MW-1 and was below the groundwater quality standard.

Di-n-butyl phthalate: Detected concentrations of di-n-butyl phthalate increased in groundwater sampled from monitoring well MW-2 and remain below the groundwater quality standard.

Carbazole: Detected concentrations of carbazole increased in MW-5 and remain below the groundwater quality standard.

Benz(a)anthracene: Detected concentrations of benz(a)anthracene increased in groundwater sampled from monitoring well MW-7 from 2011 non-detect results. Concentrations exceeded the groundwater quality standard.

Benzo(b)fluoranthene: Detected concentrations of benzo(b)fluoranthene increased in groundwater sampled from monitoring well MW-7 from 2011 non-detect results. Concentrations exceeded the groundwater quality standard.

Benzo(k)fluoranthene: Detected concentrations of benzo(k)fluoranthene increased in groundwater sampled from monitoring well MW-7 from 2011 non-detect results. Concentrations exceeded the groundwater quality standard.

Chrysene: Detected concentrations of chrysene increased in groundwater sampled from monitoring well MW-7 from 2011 non-detect results. Concentrations exceeded the groundwater quality standard.

Detected concentrations of fluoranthene, pyrene, benzo(a)pyrene, acenaphthene increased in groundwater sampled from monitoring well MW-7 from 2011 non-detect results. Concentrations did not exceeded the groundwater quality standard.

3.2.3 Inorganic Metals Analytical Test Results

Detected concentrations of inorganic metals for the 2012 sampling event that exceeded groundwater quality standards increased in concentrations of most parameters when compared with 2011 analytical test results. The inorganic metals analytical test results detected concentrations of aluminum (MW-1, MW-2 and MW-7), antimony (MW-7), arsenic (MW-1, MW-2 and MW-7), barium (MW-2), beryllium (MW-1 and MW-2), cadmium (MW-1, MW-2 and MW-7), chromium (MW-1 and MW-2), copper (MW-2), iron (all wells), lead (MW-1, MW-2, and MW-7), magnesium (MW-1, and MW-2), manganese (MW-1, MW-2, MW-6, MW-7 and MW-8), mercury (MW-2), nickel (MW-1 and MW-2), selenium (MW-5, MW-7 and MW-8), and zinc (MW-7) exceeding groundwater quality standards as presented in Table 5.

Aluminum: Detected concentrations of aluminum increased in groundwater sampled from monitoring wells MW-1 and MW-2. Detected concentrations of aluminum decreased in groundwater sampled from monitoring well MW-7. Detected concentrations of aluminum exceeded the groundwater quality standard at monitoring wells MW-1, MW-2, and MW-7.

Antimony: Detected concentrations of antimony increased in groundwater sampled from monitoring well MW-7 from 2011 non-detect results. Detected concentrations of antimony exceeded the groundwater quality standard.

Arsenic: Detected concentrations of arsenic increased in groundwater sampled from monitoring wells MW-1, MW-2 and MW-7 and exceeded the groundwater quality standard.

Barium: Detected concentrations of barium increased in groundwater sampled from monitoring well MW-2 from the 2011 sampling event. Detected concentration of barium exceeded the groundwater quality standard.

Beryllium: Detected concentrations of beryllium increased in groundwater sampled from monitoring wells MW-1 and MW-2 from 2011 non-detect results. Beryllium concentrations exceeded the groundwater quality standard.

Cadmium: Detected concentrations of cadmium increased in groundwater sampled from monitoring wells MW-1, MW-2, and MW-7. Cadmium concentrations in monitoring well MW-1 increased from 2011 non-detect results. Cadmium concentrations exceeded the groundwater quality standard.

Chromium: Detected concentrations of chromium increased in groundwater sampled from monitoring wells MW-1 and MW-2. Chromium concentrations exceeded the groundwater quality standard.

Copper: Detected concentrations of copper increased in groundwater sampled from monitoring well MW-2. Copper concentration exceeded the groundwater quality standard.

Iron: Detected concentrations of iron increased in groundwater sampled from monitoring wells MW-1, MW-2, and MW-8. Detected concentrations of iron decreased in groundwater sampled from monitoring wells MW-5, MW-6, and MW-7. Detected concentrations of iron exceeded the groundwater quality standard in all wells.

Lead: Detected concentrations of lead increased in groundwater sampled from monitoring wells MW-1, MW-2, and MW-7. Lead concentrations in monitoring well MW-8 increased from 2011 non-detect results. Non-detect results reported in 2012 show a decrease in detected concentrations of lead as reported in 2011 in groundwater sampled from monitoring well MW-5. Detected concentrations of lead exceeded the groundwater quality standard.

Magnesium: Detected concentration of magnesium increased in groundwater sampled from monitoring wells MW-1 and MW-2. Detected concentrations of magnesium exceeded the groundwater quality standard.

Manganese: Detected concentrations of manganese increased in groundwater sampled from monitoring wells MW-1, MW-2, and MW-8. Detected concentration of manganese decreased in groundwater sampled from monitoring wells MW-6 and MW-7. Detected concentrations of manganese exceeded the groundwater quality standard.

Mercury: Detected concentration of mercury increased in groundwater sampled from monitoring well MW-2 and exceed the groundwater quality standard. Detected concentrations of mercury in monitoring wells MW-1, MW-5, and MW-7 increased from 2011 non-detect results, but, did not exceed the groundwater quality standard.

Nickel: Detected concentrations of nickel increased in groundwater sampled from monitoring wells MW-1 and MW-2. Detected concentrations of nickel exceeded the groundwater quality standard.

Selenium: Detected concentrations of selenium increased from 2011 non-detect results in groundwater sampled from monitoring wells MW-5, MW-7, and MW-8. Detected concentrations of selenium exceeded the groundwater quality standard.

Zinc: Detected concentrations of zinc increased in groundwater sampled from monitoring well MW-7. Detected concentrations of zinc exceeded groundwater quality standards.

Detected concentrations that did not exceed groundwater quality standards and represent an increase in concentration when compared to 2011 test results include: barium (MW-1, MW-6, MW-7, and MW-8), chromium (MW-7), copper (MW-1 and MW-7), lead (MW--8), mercury (MW-1, MW-5, and MW-7), magnesium (MW-6 and MW-8), vanadium (MW-1 and MW-2), zinc (MW-1, MW-2, and MW-8).

Detected concentrations that did not exceed groundwater quality standards and represent a decrease in concentration when compared to 2011 test results include: aluminum (MW-5 and MW-6), barium (MW-5), magnesium (MW-5, and MW-7), manganese (MW-5), nickel (MW-7), and zinc (MW-5 and MW-6).

3.3 Quality Assurance/Quality Control Analytical Results

Groundwater samples were analyzed for VOCs by USEPA SW-846 Method 8260, SVOCs by USEPA SW-846 Method 8270 and TAL Metals at Upstate Laboratories in Syracuse, New York. The laboratory data were independently reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The associated laboratory analytical reports of the field duplicate, equipment blank, and other quality assurance/quality control (QA/QC) samples collected during the July 2012 sampling event are presented in Appendix B.

Data Usability Summary Reporting completed by Vali-Data of WNY, LLC August 28, 2012 is presented in Appendix D. The QA/QC measurements examined for the data were within method-specified or laboratory-derived limits. No data were rejected as a result of the data validation.

SECTION 4 - SOILS MANAGEMENT PLAN

4.1 Objective

The objective of this Soils Management Plan (SMP) is to set guidelines for the maintenance and repair of the cover system at the Site, and for the management of soil and fill disturbed during any future intrusive work that breaches this cover system. This SMP addresses environmental concerns related to soil management and has been reviewed and approved by the New York State Department of Environmental Conservation (NYSDEC).

4.2 Nature and Extent of Contamination

The data obtained during the investigation and remediation of the Site reveal that the contaminants of concern at this Site for surface soil consist primarily of semivolatile organic compounds (SVOCs) and metals. The primary SVOCs of concern include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and indeno(1,2,3-cd)pyrene. These contaminants belong to a class of SVOCs known as polycyclic aromatic hydrocarbons (PAHs). PAHs are a group of over 100 different chemicals that are ubiquitous in the environment. Sources of PAHs include incomplete combustion of coal, oil, gasoline, garbage, wood and incinerators. PAHs are also found in coal tar, crude oil, creosote, roofing tar, medicines, dyes, plastics and pesticides. The primary metals of concern in surface soil include barium, cadmium, chromium, lead and mercury.

The contaminants of concern at the Site for subsurface soil consist primarily of volatile organic compounds and semivolatile organic compounds. The primary VOCs of concern include acetone, benzene, ethylbenzene and xylene, while the primary SVOCs of concern include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene.

The contaminants of concern at this Site for groundwater consist primarily of volatile organic compounds and metals. The primary VOCs of concern include dichloroethene and vinyl chloride, although historic groundwater samples also contained benzene, ethylbenzene, toluene, trichloroethene and xylene. The primary metals of concern in groundwater include aluminum, cadmium, iron, lead and manganese.

4.3 Contemplated Use

Following the remediation of the Site, the property was purchased by Manth Manufacturing for use as parking and warehousing for the company's existing manufacturing operations at 131 Fillmore Avenue. The Deed Restriction specifically prohibits the use of the Site for any type of residential, agricultural or school/day care purposes.

4.4 Purpose and Description of the Cover System

The purpose of the cover system is to prevent public exposures with contaminated soil, fill and groundwater, and to prevent the migration of contaminants off-site via groundwater or surface water runoff. The cover system at the Site consists of the following:

- A 1-foot thick clean soil cover without a demarcation layer;
- A 1-foot thick asphalt and subbase cover at two areas used for parking and access;
- A concrete and subbase cover consisting of sidewalks and the floors of Site buildings.
 Vapor barriers are not present under any of the concrete buildings slabs.

4.5 Cover System Maintenance and Repair

The cover system will be periodically inspected and maintained. Maintenance includes controlling surface erosion and run-off from the Site, and includes proper maintenance of the vegetative cover. In the event that damage to the cover system is observed (e.g., ruts, erosion, cracked or broken asphalt, etc.), repairs will be made to restore the cover system to its predamaged condition. These repairs are required to maintain the integrity of the cover system.

Future use of the Site should preclude as described in the Deed Restriction, whenever possible, excavation or disturbance of the cover system. Should any future intrusive work breach the cover system, the requirements of Sections 4.6 thru 4.9 of this SMP must be followed. Once the intrusive activities are complete, the cover system must be restored in a manner that is consistent with the original construction. If the type of cover system changes from that which existed prior to the intrusive activities (i.e., a soil cover is replaced by asphalt, concrete or a building), a figure showing the modified surface should be included in the appropriate annually submitted Periodic Review Report, and in any updates to the Site Management Plan. The Periodic Review Report should also certify that all intrusive and cover system repair activities were conducted in conformance with this Soil Management Plan.

4.6 Management of Subsurface Soil and Fill

The purpose of this section is to provide environmental guidelines for the management of soil and fill encountered during any future intrusive work that breaches the cover system. This SMP includes the following conditions:

- Any breach of the cover system, including for the purposes of construction or utilities work, must be replaced or repaired using an acceptable borrow source free of industrial and/or other potential sources of chemical or petroleum contamination. The repaired area must be covered with clean soil and reseeded, or covered with impervious product such as concrete or asphalt to prevent future erosion;
- During any intrusive activities that breach the cover system, the Contingency Plan of Section 4.7 must be implemented, if conditions so warrant. Dust monitoring and control techniques (e.g., wetting road surfaces, covering soil stockpiles, stopping intrusive activities during windy conditions, etc) must also be implemented;
- Soil and fill excavated at the Site that is intended to be removed from the property must be managed, characterized, and properly disposed of in accordance with NYSDEC regulations as referenced in Section 4.8;
- Soil and fill excavated at the Site may be reused as backfill material on-site provided it contains no visual or olfactory evidence of contamination, and is placed beneath a cover system component as referenced in Section 4.4;
- Any off-site material brought to the Site for filling and grading purposes shall be from an acceptable borrow source free of industrial and/or other potential sources of chemical or petroleum contamination. Off-site borrow sources will be subject to the collection of one representative composite sample per source. The sample should be analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs, TAL metals and cyanide by a NYSDOH ELAP-certified laboratory. The soil will be acceptable for use as cover material provided that all parameters meet the 6 NYCRR Part 375 residential soil cleanup objectives (Appendix E);
- Prior to any construction activities, workers are to be notified of Site conditions with clear

instructions regarding how the work is to proceed. Invasive work performed at the property will be performed in accordance with all applicable local, state, and federal regulations to protect worker health and safety, including all applicable personal protective equipment.

4.7 Contingency Plan

If underground storage tanks or other previously unidentified contaminant sources are encountered during future intrusive work, excavation activities will be suspended until sufficient equipment is mobilized to address the situation. Such findings will be promptly communicated to the NYSDEC Region 9 Office in Buffalo, New York. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. Representative samples of product, soil and fill will be collected for chemical analysis to determine the nature of the material and proper disposal method. The samples should be analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs, TAL metals and cyanide by a NYSDOH ELAP certified laboratory. Disposal of this material should take place as referenced in Section 4.8.

4.8 Disposal of Subsurface Soil and Fill

Soil and fill that is excavated at the Site but cannot be used as fill below the cover system will be further characterized prior to transportation off-site for disposal at a permitted facility. For excavated soil and fill with visual evidence of contamination (i.e., staining or elevated PID measurements), one composite sample and one duplicate sample will be collected for every 100 cubic yards of material. For excavated soil and fill that does not exhibit visual evidence of contamination but must be sent for off-site disposal, one composite sample and one duplicate sample will be collected for every 2,000 cubic yards of material. A minimum of one composite sample and one duplicate sample will be collected for volumes less than 2,000 cubic yards.

The composite sample will be collected from five locations within each stockpile. A duplicate composite sample will also be collected. PID measurements will be recorded for each of the five individual locations. If elevated PID measurements are documented, one grab sample will be collected from the individual location with the highest PID measurement. If none of the individual samples exhibit PID readings, one grab sample will be selected at random. The composite sample will be analyzed for pH (EPA Method 9045C), TCL SVOCs, TCL pesticides, TCL PCBs, TAL metals and cyanide by a NYSDOH ELAP certified laboratory. The grab sample will be analyzed for TCL VOCs.

Samples will be composited by placing equal portions of soil and fill from each of the five composite sample locations into a pre-cleaned, stainless steel (or Pyrex glass) mixing bowl. The soil and fill will be thoroughly homogenized using a stainless steel trowel or disposable scoop, and transferred to pre-cleaned sample bottles provided by the laboratory. The sample bottles will be labeled and a chain-of-custody form will be prepared.

Additional characterization sampling for off-site disposal may be required by the disposal facility. To potentially reduce off-site disposal requirements/costs, the owner or site developer may also choose to characterize each stockpile individually.

If the analytical results indicate that concentrations exceed the standards for RCRA characteristics, the material will be considered a hazardous waste and must be properly disposed off-site at a permitted disposal facility within 90 days of excavation. If the analytical results indicate that the soil is not a hazardous waste, the material will be properly disposed off-site at a non-hazardous waste facility. Stockpiled soil cannot be transported on or off-site until the analytical results are received from the laboratory.

4.9 Subgrade Material

Subgrade material used to backfill excavations or placed to increase surface grades must meet the following criteria.

- Excavated on-site soil and fill that appears to be visually impacted shall be sampled and analyzed as described in Section 4.8. If analytical results indicate that contaminants are present at concentrations below the 6 NYCRR Part 375 commercial soil cleanup objectives (Appendix E), the soil and fill can be used as backfill on-site;
- Any off-site material brought to the Site for filling and grading purposes shall be from an acceptable borrow source free of industrial and/or other potential sources of chemical or petroleum contamination, and cannot otherwise be defined as a solid waste in accordance with 6 NYCRR Part 360-1.2(a);
- If the contractor designates a source as "virgin" soil, it shall be further documented in writing to be native soil material from areas not having supported any known prior industrial or commercial development or agricultural use;

- Virgin soil will be subject to the collection of one representative composite sample per source. The sample should be analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs, arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver and cyanide by a NYSDOH ELAP certified laboratory. The soil will be acceptable for use as backfill provided that all parameters meet the 6 NYCRR Part 375 commercial soil cleanup objectives as referenced in Appendix E;
- Non-virgin soil will be tested via collection of one composite sample per 500 cubic yards of material from each source. If more than 1,000 cubic yards of soil are borrowed from a given off-site nonvirgin source, and both samples of the first 1,000 cubic yards meet the 6 NYCRR Part 375 commercial soil cleanup objectives as referenced in Appendix E, the sample collection frequency will be reduced to one composite for every 2,500 cubic yards of additional soils from the same source, up to 5,000 cubic yards. For borrow sources greater than 5,000 cubic yards, sampling frequency may be reduced to one sample per 5,000 cubic yards, provided all earlier samples met the 6 NYCRR Part 375 commercial soil cleanup objectives.

4.10 2012 Site Usage

No excavation took place on-site in 2012.

SECTION 5 - CONCLUSIONS

- Analytical test results identified volatile organic compound concentrations that exceeded groundwater standards. Analytical testing detected the volatiles: vinyl chloride, trans-1,2dichloroethene, cis-1,2-dichloroethene and benzene at concentrations exceeding groundwater quality standards. Volatile organic compound concentrations were detected to be increasing in groundwater sampled from monitoring wells MW-1, MW-2, MW-7 and MW-8.
- 2. Semi-volatiles organic analytical test results detected concentrations of bis(2-ethylhexyl)phthalate, benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene that exceeded groundwater quality standards in groundwater from monitoring well MW-7. Detected concentrations of bis(2-ethylhexyl)phthalate exceeded groundwater quality standards in groundwater from monitoring well MW-2.
- 3. Inorganic metals analytical test results detected concentrations of aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, zinc that exceed groundwater quality standards.
- 4. Trend analysis of volatile parameters indicates the concentrations of vinyl chloride and cis-1, 2-dichloroethene to be increasing at one or more monitoring wells.
- 5. Trend analysis of volatile parameters indicates the total VOC concentrations in monitoring well MW-1 have increased every year from 2009 to 2012 from 5.5 ug/l in 2009 to 73.0 ug/l in 2012.
- 6. Trend analysis of semi-volatile parameters indicates the concentrations of bis(2-ethylhexyl)phthalate to be increasing at monitoring wells MW-2 and MW-7.
- 7. Trend analysis of semi-volatile parameters indicates the concentrations of detected concentrations of fluoranthene, pyrene, bis(2-ethylhexyl)phthalate, benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene increased in monitoring well MW-7.
- 8. Based on 2012 analytical test results, the total VOC concentration plume appears to be migrating in a southwestward direction. Total VOC concentrations increased in groundwater

at monitoring wells MW-1 and MW-7. Total VOC concentrations decreased at monitoring wells MW-2 and MW-8.

TABLES



TABLE 1
153 Fillmore Avenue Site
City of Tonawanda

2012 Field Groundwater Parameters

Downwoodow			Monitoring	Monitoring Well Location		·
1 alametel	MW-1	MW-2	MW-5	MW-6	MW-7	MW-8
Temperature (°C)	19.85	16.28	21.51	20.38	20.17	21.90
pH	66.9	7.02	86.9	7.1	7.26	7.12
Conductivity (mS/cm)	0.65	0.587	0.987	0.65	0.53	0.74
Dissolved Oxygen (mg/L)	4.9	11.42	6.25	3.04	5.80	3.88
Turbidity (NTUs) ⁽¹⁾	NA	NA	233	72	703	59
ORP (mV)	-112.0	-67.0	-80.0	-99.0	-72.0	0.69-

Note: # 1: The field parameter probe was unable to record a turbidity reading due to very murky water at some well locations.

TABLE 2A
Monitoring Well MW-1
Groundwater Monitoring Well Data
153 Fillmore Avenue Site

Property	Units	07/22/09	07/15/10	07/22/11	07/24/12
Well Depth Top PVC	feet	13.8	13.8	13.8	13.8
Well Depth Elevation	feet	561.00	561.00	561.00	561.00
Depth to Static Water	feet	6.30	7.00	7.60	8.70
Height of Water	feet	7.50	08.9	6.20	5.10
Top PVC Elevation	feet	574.8	574.8	574.8	574.8
Static Water Level Elevation	feet	568.50	567.80	567.20	566.10
Well Casing Diameter	inch	2.0	2.0	2.0	2.0
Water Volume	gallon	1.21	1.09	1.00	0.82
Water Purged	gallon	3.64	3.26	2.99	2.46
C		Peristalic	Peristalic	Peristalic	Peristalic
rurging Meulod	'	Pump	Pump	Pump	Pump

TABLE 2B
Monitoring Well MW-2
Groundwater Monitoring Well Data
153 Fillmore Avenue Site

Property	Units	07/22/09	07/15/10	07/22/11	07/24/12
Well Depth Top PVC	feet	13.5	13.5	13.5	13.5
Well Depth Elevation	feet	561.69	561.69	561.69	561.69
Depth to Static Water	feet	5.90	6.30	6.40	7.70
Height of Water	feet	7.60	7.20	7.10	5.80
Top PVC Elevation	feet	575.19	575.19	575.19	575.19
Static Water Level Elevation	feet	569.29	568.89	568.79	567.49
Well Casing Diameter	inch	2.0	2.0	2.0	2.0
Water Volume	gallon	1.22	1.15	1.14	0.93
Water Purged	gallon	3.67	3.46	3.41	2.78
D		Peristalic	Peristalic	Peristalic	Peristalic
r uiging Melliod	1	Pump	Pump	Pump	Pump

TABLE 2C
Monitoring Well MW-5
Groundwater Monitoring Well Data
153 Fillmore Avenue Site

Property	Units	10/11/01	01/26/07	08/27/08	07/22/09	01/12/10	07/22/11	07/24/12
Well Depth Top PVC	feet	15.5	15.5	15.5	15.5	15.5	15.5	15.5
Well Depth Elevation	feet	562.82	562.82	562.82	562.82	562.82	562.82	562.82
Depth to Static Water	feet	8.41	9.40	06.9	8.50	8.30	8.80	10.80
Height of Water	feet	7.09	6.10	8.60	7.00	7.20	6.70	4.70
Top PVC Elevation	teet	578.32	578.32	578.32	578.32	578.32	578.32	578.32
Static Water Level Elevation	feet	569.91	568.92	571.42	569.82	570.02	569.52	567.52
Well Casing Diameter	inch	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Water Volume	gallon	0.64	0.55	0.77	1.90	0.65	09.0	0.42
Water Purged	gallon	1.91	1.65	1.00	1.50	1.50	1.81	1.27
D			Peristalic	Peristalic	Peristalic	Peristalic	Peristalic	Peristalic
r urging iviemod	'	•	Pump	Pump	Pump	Pump	Pump	Pump

TABLE 2D
Monitoring Well MW-6
Groundwater Monitoring Well Data
153 Fillmore Avenue Site

Property	Units	10/11/01	07/26/07	08/22/08	07/23/09	07/15/10	07/22/11	07/24/12
Well Depth Top PVC	feet	17.3	17.3	17.3	17.3	17.3	17.3	17.3
Well Depth Elevation	feet	560.83	560.83	560.83	560.83	560.83	560.83	560.83
Depth to Static Water	feet	7.93	8.50	6.70	8.7	8.1	8.5	10.2
Height of Water	feet	9.37	8.80	10.60	8.60	9.20	8.80	7.10
Top PVC Elevation	feet	578.13	578.13	578.13	578.13	578.13	578.13	578.13
Static Water Level Elevation	feet	570.2	569.63	571.43	569.43	570.03	569.63	567.93
Well Casing Diameter	inch	1.0	0.1	1.0	1.0	0.1	1.0	1.0
Water Volume	gallon	0.84	6.79	0.95	0.78	0.83	0.79	0.64
Water Purged	gallon	2.53	2.38	2.86	2.34	2.48	2.38	1.92
D - 17 - 18 - 17 - 18			Peristalic	Peristalic	Peristalic	Peristalic	Peristalic	Peristalic
r urging ivieulod	'		Pump	Pump	Pump	Pump	Pump	Pump

TABLE 2E
Monitoring Well MW-7
Groundwater Monitoring Well Data
153 Fillmore Avenue Site

Property	Units	10/11/01	07/26/07	08/27/08	07/23/09	07/15/10	07/22/11	07/24/12
Well Depth Top PVC	feet	23.5	23.5	23.5	23.5	23.5	23.5	23.5
Well Depth Elevation	feet	562.76	562.76	562.76	562.76	562.76	562.76	562.76
Depth to Static Water	feet	4.86	16.50	14.70	(1)	(1)	(1)	(1)
Height of Water	feet	18.64	7.00	8.80	(1)	(1)	(1)	(1)
Top PVC Elevation	feet	586.26	586.26	586.26	586.26	586.26	586.26	586.26
Static Water Level Elevation	feet	581.4	569.76	571.56	(1)	(1)	(1)	(1)
Well Casing Diameter	inch	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Water Volume	gallon	1.68	0.63	0.79	(1)	(1)	(1)	(1)
Water Purged	gallon	5.03	1.89	1.50	1.50	1.25	1.25	1.25
Description Mother			Peristalic	Peristalic	Peristalic	Peristalic	Peristalic	Peristalic
r urging memor	1	1	Pump	Pump	Pump	Pump	Pump	Pump

Note: 1. There was an obstruction in the well at a depth of 8.8 feet in which the water level indicator could not proceed further down the well. The initial static water level from 2007 and 2008 were used to determine the amount of water to be purged.

TABLE 2F
Monitoring Well MW-8
Groundwater Monitoring Well Data
153 Fillmore Avenue Site

p PVC feet 17.5 evation feet 560.93 water feet 8.16 r feet 9.34 ation feet 578.43 evel Elevation feet 570.27 iameter inch 1.0	17.5 560.93 8.16 9.34	560.93	17.5 560.93			The same of the sa
feet 560.93 feet 8.16 feet 9.34 feet 578.43 feet 570.27 inch 1.0	\$.16 9.34	560.93	560.93	17.5	17.5	17.5
feet 8.16 feet 9.34 feet 578.43 feet 570.27 inch 1.0	8.16	06.9		560.93	560.93	560.93
feet 9.34 feet 578.43 feet 570.27 inch 1.0	9.34	10.60	7.8	8.4	8.9	10.6
feet 578.43 feet 570.27 inch 1.0	27 000	10.00	9.70	9.10	8.60	6.90
feet 570.27 inch 1.0		578.43	578.43	578.43	578.43	578.43
inch 1.0		571.53	570.63	570.03	569.53	567.83
		1.0	1.0	1.0	1.0	1.0
	on 0.84 0.81	0.95	0.87	0.82	0.77	0.62
Water Purged 2.52		3.00	2.62	2.46	2.32	1.86
Pe	Peristalic	Peristalic	Peristalic	Peristalic	Peristalic	Peristalic
Purging Method	- Pump	Pump	Pump	Pump	Pump	Pump

TABLE 3A Monitoring Well MW-1 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

NYSDEC TOGS 1.1.1 Water Quality Standards ¹	V inite	00/07/01	07/22/00	07/15/10	07/22/11	07/24/12
		08/07/01				ND
		NID.				16
						ND
		<u> </u>				
		-				ND
						ND
						ND
		-				ND
						ND
						2.3 J
		ND				ND
50.0	μg/L		ND			ND
5.0	μg/L	47	5.5	13		55
7.0	μg/L	-	ND	ND	ND	ND
5.0	μg/L		ND	ND	ND	ND
5.0	μg/L	-	ND	ND	ND	ND
1.0	μg/L	ND	ND	ND	ND	ND
0.6	μg/L		ND	ND	ND	ND
5.0	μg/L	ND	ND	ND	ND	ND
1.0	μg/L .	-	ND	ND	ND _	ND
50.0	μg/L	-	ND	ND	ND	ND
NE	μ g/ L	-	ND	ND	ND	ND
0.4	μg/L	-	ND	ND	ND	ND
5.0	μg/L	ND	ND	ND	ND	ND
0.4		-	ND	ND	ND	ND
1.0		-	ND	ND	ND	ND
50.0	μg/L	-	ND	ND	ND	ND
5.0	μg/L	ND	ND	ND	ND	ND
50.0		-	ND	ND	ND	ND
5.0		-	ND	ND	ND	ND
5.0		ND	ND	ND	ND	ND
5.0		ND	ND	ND	ND	ND
			ND	ND	ND	ND
			ND	ND	ND	ND
		-	ND	ND	ND	ND
5.0		-	ND	ND	ND	ND
		47.0	5.5	16.0	26.0	73.3
		0.047	0.006	0.016	0.026	0.073
	1.1.1 Water Quality Standards NE 2.0 5.0 5.0 5.0 5.0 60.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 1.0 0.6 5.0 1.0 0.6 5.0 0.4 1.0 50.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	NE	NE	NE μg/L - ND 2.0 μg/L ND ND 5.0 μg/L - ND 5.0 μg/L - ND 5.0 μg/L - ND 5.0 μg/L ND ND 5.0 μg/L ND ND 5.0 μg/L ND ND 5.0 μg/L - ND 5.0 μg/L - ND 5.0 μg/L ND ND 5.0 μg/L ND ND 5.0 μg/L - ND 5.0 μg/L ND ND 1.0 μg/L ND ND 5.0 μg/L ND ND	1.1.1 Water Quality Standards Units 08/07/01 07/22/09 07/15/10 NE	1.1.1 Water Quality Standards Units 08/07/01 07/22/09 07/15/10 07/22/11

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

^{*} Dilution factor of 5 used

J - Analyte detected below quantitation limits

^{- =} The analyte was not sampled for.

TABLE 3B Monitoring Well MW-2 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

				Г-	Ι	-	
	NYSDEC TOGS 1.1.1 Water Quality						
Volatile Compounds	Standards ¹	Units	08/07/01	07/22/09	07/15/10	07/22/11	07/24/12
Chloromethane	NE	μg/L	<u> </u>	ND	ND	ND	ND
Vinyl chloride	2.0	μg/L	ND	82	64	28	21
Bromomethane	5.0	μg/L		ND	ND	ND	ND
Chloroethane	5.0	μg/L	-	ND	ND	ND	ND
Acetone	50.0	μg/L	ND	ND	ND	11	ND
1,1-Dichloroethene	5.0	μg/L	ND	ND	ND	ND	ND
Carbon disulfide	60.0	μg/L		ND	ND	ND	ND
Methylene chloride	5.0	μg/Ľ	-	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.0	μg/L	ND	4 J	ND	ND	ND
1,1-Dichloroethane	5.0	μg/L	ND _	ND	ND	ND	ND
2-Butanone	50.0	μg/L	-	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.0	μg/L	ND	ND	54	12	2.7 J
Chloroform	7.0	μg/L	1	ND	ND	ND	ND
1,1,1-Trichloroethane	5.0	μg/L	-	ND	ND	ND	ND
Carbon tetrachloride	5.0	μg/L	-	ND	ND	ND	ND
Benzene	1.0	μg/L	ND	6.7	ND	5 J	2,9 J
1,2-Dichloroethane	0.6	μg/L		ND	ND	ND	ND
Trichloroethene	5.0	μg/L	ND	ND	ND	ND	ND
1,2-Dichloropropane	1.0	μg/L		ND	ND	ND	ND
Bromodichloromethane	50.0	μg/L	-	ND	ND	ND	ND
4-Methyl-2-pentanone	NE	μg/L	-	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND
Toluene	5.0	μg/L	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND
1,1,2-Trichloroethane	1.0	μg/L	-	ND	ND	ND	ND
2-Hexanone	50.0	μg/L	-	ND	ND	ND	ND
Tetrachloroethene	5.0	μg/L	ND	ND	ND	ND	ND
Dibromochloromethane	50.0	μg/L	-	ND	ND	ND	ND
Chlorobenzene	5.0	μ g /L	-	ND	ND	ND	ND
Ethylbenzene	5.0	μg/L	ND	ND	ND	ND	ND
m,p-Xylene	5.0	μg/L	ND	ND	ND	ND	ND
o-Xylene	5.0	μg/L	ND	ND	ND	ND	ND
Styrene	5.0	μg/L	ND	ND	ND	ND	ND
Bromoform	50.0	μg/L	-	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0	μg/L	-	ND	ND	ND	ND
Total VOCs		μg/L	0	92.7	118.0	56.0	26.6
Total VOCs		mg/L	0.000	0.093	0.118	0.056	0.027

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

- J Analyte detected below quantitation limits
- = The analyte was not sampled for.

^{*} Dilution factor of 5 used

TABLE 3C

Monitoring Well MW-5 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	1 "				Г.	-			_
Volatile Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/07/01	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12
Chloromethane	NE	μg/L	-	ND	ND	ND	ND	ND	ND
Vinyl chloride	2.0	μg/L	ND						
Bromomethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Chloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Acetone	50.0	μg/L	30	ND	ND	ND	ND	ND	ND
1.1-Dichloroethene	5.0	μg/L	ND						
Carbon disulfide	60.0	μg/L	-	ND	ND	ND	ND	ND	ND
Methylene chloride	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.0	μg/L	ND						
1.1-Dichloroethane	5.0	μg/L	ND						
2-Butanone	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.0	μg/L	ND						
Chloroform	7.0	μg/L	-	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Benzene	1.0	μg/L	2	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	μg/L	-	ND	ND	ND	ND	ND	ND
Trichloroethene	5.0	μg/L	ND						
1,2-Dichloropropane	1.0	μg/L	-	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NE	μg/L	-	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND
Toluene	5.0	μg/L	ND						
trans-1,3-Dichloropropene	0.4	μg/L		ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.0	μg/L		ND	ND	ND	ND	ND	ND
2-Hexanone	50.0	μg/L	•	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5.0	μg/L	ND						
Dibromochloromethane	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
Chlorobenzene	5.0	μg/L		ND	ND	ND	ND	ND	ND
Ethylbenzene	5.0	μg/L	ND						
m,p-Xylene	5.0	μg/L	ND						
o-Xylene	5.0	μg/L	ND						
Styrene	5.0	μg/L	ND	ND	ND	ND	ND	ND_	ND
Bromoform	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Total VOCs		μg/L	32.0	0	0	0	0	0	0
Total VOCs		mg/L	0.032	0.000	0.000	0.000	0.000	0.000	0.000

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

- J Analyte detected below quantitation limits
- = The analyte was not sampled for.

^{*} Dilution factor of 5 used

TABLE 3D Monitoring Well MW-6 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	1								1
Volatile Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/07/01	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12
Chloromethane	NE	μg/L	00/07/01	ND	ND	ND	ND	ND	ND
Vinyl chloride	2.0	μg/L	ND	ND	99	42	5	ND	ND
Bromomethane	5.0	μg/L		ND	ND	ND	ND	ND	ND
Chloroethane	5.0	μg/L	<u> </u>	ND	ND	ND	ND	ND	ND
Acetone	50.0	μg/L	ND						
1.1-Dichloroethene	5.0	μg/L	ND						
Carbon disulfide	60.0	μg/L		ND	ND	ND	ND	ND	ND
Methylene chloride	5.0	μg/L		ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.0	μg/L	ND	ND	ND	3.J	ND	ND	ND
1,1-Dichloroethane	5.0	μg/L	ND						
2-Butanone	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.0	μg/L	ND	ND	240	51	2 J	ND	ND
Chloroform	7.0	μg/L	-	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5.0	μg/L	_	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Benzene	1.0	μg/L	ND						
1,2-Dichloroethane	0.6	μg/L	-	ND	ND	ND	ND	ND	ND
Trichloroethene	5,0	μg/L	ND	ND	ND	2 J	ND	ND	ND
1,2-Dichloropropane	1.0	μg/L	-	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50.0	μg/L		ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NE	μg/L	-	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND
Toluene	5.0	μg/L	ND						
trans-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.0	μg/L	_	ND	ND	ND	ND	ND	ND
2-Hexanone	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5.0	μg/L	ND						
Dibromochloromethane	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
Chlorobenzene	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.0	μg/L	ND						
m,p-Xylene	5.0	μg/L	5	ND	ND	ND	ND	ND	ND
o-Xylene	5.0	μg/L	ND						
Styrene	5.0	μg/L	ND						
Bromoform	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Total VOCs		μg/L	5.0	0	339.0	98.0	7.1	0	0
Total VOCs		mg/L	0.005	0,000	0.339	0.098	0.007	0.000	0.000

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

- J Analyte detected below quantitation limits
- = The analyte was not sampled for.

^{*} Dilution factor of 5 used

TABLE 3E Monitoring Well MW-7 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	1								
Volatile Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/07/01	07/26/07	08/27/08	07/23/09	07/15/10	07/22/11	07/24/12
Chloromethane	NE	μg/L	_	ND	ND	ND	ND	ND	ND
Vinyl chloride	2.0	μg/L	10	40 J	ND	2 J	ND	ND	17
Bromomethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Chloroethane	5.0	μg/L		ND	ND	ND	ND	ND	ND
Acetone	50.0	μg/L	ND	ND	ND	ND	ND	27	29
1.1-Dichloroethene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	60.0	μg/L		ND	ND	ND	ND	ND	ND
Methylene chloride	5.0	ug/L	-	ND	ND	ND	ND	ND	ND
trans-1.2-Dichloroethene	5.0	μg/L	ND	10 J	ND	ND	ND	ND	ND
1.1-Dichloroethane	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50.0	μg/L		ND	ND	ND	ND	ND	ND
cis-1.2-Dichloroethene	5.0	μg/L	150	270	ND	14	45	9.4	29
Chloroform	7.0	μg/L	-	ND	ND	ND	ND	ND	ND
1.1.1-Trichloroethane	5.0	μg/L	_	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5.0	μg/L	_	ND	ND	ND	ND	ND	ND
Benzene	1.0	μg/L	36	ND	ND	1 J	ND	ND	ND
1.2-Dichloroethane	0.6	μg/L	-	ND	ND	ND	ND	ND	ND
Trichloroethene	5.0	μg/L	19	10 J	ND	5.2	ND	3 J	3.9 J
1,2-Dichloropropane	1.0	μg/L	-	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50.0	μg/L	_	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NE.	μg/L	-	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	μg/L	_	ND	ND	ND	ND	ND	ND
Toluene	5.0	μg/L	660	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND
1.1.2-Trichloroethane	1.0	μg/L		ND	ND	ND	ND	ND	ND
2-Hexanone	50.0	μg/L	_	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5.0	μg/L	ND	10 J	ND	ND	ND	ND	2.5 J
Dibromochloromethane	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
Chlorobenzene	5.0	μg/L		ND	ND	ND	ND	ND	ND
Ethylbenzene	5.0	μg/L	690	ND	ND	2 J	ND	ND	ND
m,p-Xylene	5.0	μg/L	660	ND	ND	ND	ND	ND	ND
o-Xylene	5.0	μg/L	440	ND	ND	ND	ND	ND	ND
Styrene	5.0	μg/L	16	ND	ND	ND	ND	ND	ND
Bromoform	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Total VOCs		μg/L	2,681.0	340.0	0	24.2	45.0	39.4	81.4
Total VOCs		mg/L	2.681	0.340	0.000	0.024	0.045	0.039	0.081

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

- J Analyte detected below quantitation limits
- = The analyte was not sampled for.

^{*} Dilution factor of 5 used

TABLE 3F Monitoring Well MW-8 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

		,							
Volatile Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/07/01	07/26/07	08/27/08	07/23/09*	07/15/10	07/22/11	07/24/12
Chloromethane	NE	μg/L	-	ND	ND	ND	ND	ND	ND
Vinyl chloride	2.0	μg/L	54	190	160	190	240	120	110
Bromomethane	5.0	μg/L		ND	ND	ND	ND	ND	ND
Chloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Acetone	50.0	μg/L	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	60.0	μg/L	-	ND	ND	ND	ND	ND	ND
Methylene chloride	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.0	μg/L	7	15	20 Ј	20 J	10 J	11	4.9
1,1-Dichloroethane	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.0	μg/L	31	160	230	370	260	52	22
Chloroform	7.0	μg/L	-	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Benzene	1.0	μg/L	4	ND	ND	ND	ND	3 J	2.4 J
1,2-Dichloroethane	0.6	μg/L	-	ND	ND	ND	ND	ND	ND
Trichloroethene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1.0	μg/L	-	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NE	μg/L	-	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND
Toluene	5.0	μg/L	ND	2 J	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.0	μg/L	- ,	ND	ND	ND	ND	ND	ND
2-Hexanone	50.0	μg/L		ND	ND	ND	ND	ND	ND
Tetrachloroethene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
Chlorobenzene	5.0	μg/L		ND	ND	ND	ND	ND	ND
Ethylbenzene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	5.0	μg/L	6	ND	ND	ND	ND	ND	ND
o-Xylene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND
Styrene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND
Bromoform	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Total VOCs		μg/L	102.0	367.0	410.0	580.0	510.0	186.0	144.2
Total VOCs		mg/L	0.102	0.367	0.410	0.580	0.510	0.186	0.144

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

- J Analyte detected below quantitation limits
- = The analyte was not sampled for.

^{*} Dilution factor of 5 used

TABLE 4A Monitoring Well MW-1

Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

						, , , , , , , , , , , , , , , , , , , 	
	NYSDEC TOGS 1.1.1 Water Quality						
Semi-Volatile Compounds	Standards ¹	Units	08/08/01	07/23/09	07/15/10	07/22/11	07/24/12
Phenol	1.0	μg/L	-	ND	ND	ND	ND
bis(2-chloroethyl) ether	1,0	μg/L		ND	ND	ND ND	ND
2-Chlorophenol 1,3-Dichlorobenzene	NE 2.0	μg/L		ND	ND	ND	ND
1,4-Dichlorobenzene	3.0	μg/L	 	ND	ND	ND	ND
2-Methylphenol	NE NE	μg/L	+	ND ND	ND ND	ND	ND
N-Nitrosodi-n-propylamine	NE NE	μ <u>α</u> /L μ <u>g</u> /L	1	ND ND	ND	ND	ND
Hexachloroethane	5.0	μ <u>e</u> /L		ND ND	ND ND	ND	ND
Nitrobenzene	0.4	μg/L μg/L	 	ND	ND ND	ND ND	ND ND
Isophorone	50.0	μg/L	 	ND	ND	ND ND	ND
2-Nitrophenol	NE	μg/L	1 -	ND	ND	ND	ND
2,4-Dimethylphenol	50,0	μg/L	T .	ND	ND	ND ND	ND
bis(2-chloroethoxy) methane	5.0	μg/L	-	ND	ND	ND	ND
2,4-Dichlorophenol	1.0	μg/L	-	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	μg/L		ND	ND	ND ND	ND
Naphthalene	10.0	μg/L	ND	ND	ND	ND	ND
4-Chloroaniline	5.0	μg/L	-	ND	ND	ND	ND
Hexachlorobutadiene	0,5	μg/L	-	ND	ND	ND	ND
4-Chloro-3-methylphenol	NE	μg/L	-	ND	ND	ND	ND
2-Methylnaphthalene	NE	μg·L	,ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5,0	μg/L	-	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	μg/L	-	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	μ g/L	-	ND	ND	ND	ND
2-Chloronaphthalene	10,0	μg/L		ND	ND	ND	ND
2-Nitroaniline	5.0	μg/L	-	ND	ND	ND	ND
Dimethyl phthalate	50.0	μg/L		ND	ND	ND	ND
Acenaphthylene	NE	μg/L	-	ND	ND	ND	ND
2,6-Dinitrotoluene	5.0	μg/L	-	ND	ND	ND	ND
3-Nitroaniline	5.0	μg/L		ND	ND	ND	ND
Acenaphthene	20.0	μg/L	ND	ND	ND	ND	ND
2,4-Dinitrophenol	10.0	μg/L	<u> </u>	ND	ND	ND	ND
4-Nitrophenol	NE .	μg/L	<u> </u>	ND	ND	ND	ND
Dibenzofuran	50,0	μg/L	ND	ND	. ND	ND	ND
2,4-Dinitrotoluene	5.0	μg/L	<u> </u>	ND	ND	ND	ND
Diethyl phthalate 4-Chlorophenyl phenyl ether	50.0	μg/L	<u> </u>	ND	ND_	ND	ND
4-Chloropnenyi pnenyi etner Fluorene	NE NE	μ <u>e</u> /L		ND	ND	ND	ND
4-Nitroaniline	50.0	μg/L	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	5.0 NE	μg/L		ND	ND	ND	ND
N-Nitrosodiphenylamine	50.0	μ <u>e</u> /L		ND	ND	ND ND	ND
4-Bromophenyl phenyl ether	NE NE	μg/L μg/L		ND	ND	ND	ND
Hexachlorobenzene	0.04		- :	ND ND	ND ND	ND	ND
Pentachlorophenol	1,0	μ <u>α</u> , Τ. μα/L		ND ND	ND ND	ND ND	ND ND
Phenanthrene	50.0	μg/L	ND	ND	ND ND	ND ND	ND
Anthracene	50.0	<u> </u>	ND ND	ND	ND ND	ND ND	ND ND
Carbazole	NE I	μg/L μg/L		ND ND	ND	ND ND	ND ND
Di-n-butyl phthalate	50.0	μg/L		2 J	ND	ND ND	ND ND
Fluoranthene	50.0	μg.L	ND	ND	ND	ND	ND
Pyrene	50,0	μg/L	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50.0	μg/L	-	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5.0	μg/L	. 1	ND	ND	ND	ND
Benz(a)anthracene	0.002	µg/L	ND	ND	ND	ND	ND
Chrysene	0,002	μg/L	ND	ND	ND	ND	ND
bis(2-ethylhexyl) phthalate	5.0	μg/L	ND	8 J	1 J	6.2 B	2.3 J
Di-π-octyl phthalate	50.0	μg/L	-	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L	-	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L		ND	ND	ND	ND
Benzo(a)pyrene	NE	μg/L		ND	ND	ND	ND
ndeno(1,2,3-cd)pyrene	0.002	μg/L	-	ND	ND	ND	ND
Dibenz(a,h)anthracene)	NE	μg/L		ND	ND	ND	ND
Benzo(g,h,i) perylene	NE	μg/L		ND	ND	ND	ND
3+4)-Methylphenol	NE	μg/L		ND	ND	ND	ND
ois(2-chloroisopropyl) ether	NE NE	μg/L	-	ND	ND	ND T	ND

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 06/38, Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

J - Analyte detected below quantitation limits

B - Analyite detected in the associated Method Blank

^{- =} The analyte was not sampled for.

TABLE 4B Monitoring Well MW-2 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

					Ţ	i	
	NYSDEC TOGS				1		
i	1.1.1 Water Quality						i
Semi-Volatile Compounds	Standards	Units	08/08/01	07/23/09	07/15/10	07/22/11	07/24/12
Phenol	1.0	μg/L	!	ND	ND	ND	ND
bis(2-chloroethyl) ether	1.0	μg/L	•	ND	ND	ND ND	ND
2-Chlorophenol 1,3-Dichlorobenzene	NE 3,0	μg/L	-	ND	ND ND	ND	ND
1.4-Dichlorobenzene	3.0	µg/L µg/L	 	ND ND	ND ND	ND ND	ND ND
2-Methylphenol	NE NE	дду.С дду.С		ND ND	ND ND	ND ND	ND
N-Nitrosodi-n-propylamine	NE NE	μg/L		ND	ND	ND	ND
Hexachloroethane	5.0	μ <u>ε</u> /L		ND	ND	ND	ND
Nitrobenzene	0.4	μg/L	-	ND	ND	ND	ND
Isophorone	50.0	μg/L	-	ND	ND	ND	ND
2-Nitrophenol	NE NE	μ g /L	-	ND	ND	ND	ND
2,4-Dimethylphenol	50.0	, µg/L		ND	ND	ND	ND
bis(2-chloroethoxy) methane	5.0	дæЪ	-	ND	ND	ND	ND
2,4-Dichlorophenol	1.0	μg/L	-	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE NE	µg/L	-	ND	ND	ND .	ND
Naphthalene 4-Chloroaniline	10.0	μ <u>σ/</u> L	ND	ND	ND	ND	ND ND
4-Chloroaniline Hexachlorobutadiene	5,0	μg/L	-	ND	ND	ND ND	ND ND
4-Chloro-3-methylphenol	NE	μg/L μg/L	<u> </u>	ND ND	ND ND	ND ND	ND ND
2-Methylnaphthalene	NE NE	μg/L	ND	ND	ND	ND ND	ND ND
Hexachlorocyclopentadiene	5.0	μg/L		ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	μg/L	-	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	μg/L	-	ND	ND	ND	ND
2-Chloro-phthalene	10.0	μg/L	<u> </u>	ND	ND	ND	ND
2-Nitroaniline	5.0	μg/L	-	ND	ND	ND	ND
Dimethyl phthalate	50,0	μg/L	-	ND	ND	ND	ND
Acenaphthylene	NE NE	μ <u>e</u> /L	-	ND	ND	ND_	ND
2,6-Dinitrotoluene	5,0	μg/L	<u> </u>	ND	ND	ND	ND
3-Nitroaniline	5,0	μg/L ″	-	ND	ND	ND	ND
Acenaphthene 2,4-Dinitrophenol	20.0	µg/L µg/L	ND -	1 J ND	ND ND	ND ND	2,3 J
4-Nitrophenol	NE	<u>ив/L</u> ив/L	 	ND ND	ND ND	ND ND	ND ND
Dibenzofuran	50.0	<u>дд/L</u> дд/L	ND	ND ND	ND	ND	ND
2,4-Dinitrotoluene	5.0	μg.L		ND	ND ND	ND	ND
Diethyl phthalate	50,0	μg/L	-	ND	ND	ND ND	ND
4-Chlorophenyl phenyl ether	NE	μg/L	-	ND	ND	ND	ND
Fluorene	50.0	μg/L	ND	ND	ND	ND	ND
4-Nitroaniline	5.0	μg/L	-	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	μg/L	-	ND	ND	ND	ND
N-Nitrosodiphenylamine	50.0	μg/L	<u> </u>	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NE	μg/L		ND	ND	ND	ND
Hexachlorobenzene	0.04	μg/L	-	ND	ND	ND	ND
Pentachlorophenol Phenanthrene	1.0 50,0	μg/L ug/I	ND.	ND ND	ND ND	ND	ND
Anthracene	50.0	μ g/L μ g /L	ND ND	ND ND	ND ND	ND ND	ND ND
Carbazole	NE NE	<u>де</u> /С де/С	NU -	ND	ND	ND ND	ND
Di-n-butyl phthalate	50.0	μg/L μg/L		2 J	ND	ND	1.2 J
Fluoranthene	50,0	μg/L	ND	ND	ND :	ND	ND
Pyrene	50.0	µg/L	ND	ND	ND	ND	1.1 J
Butyl benzyl phthalate	50.0	μg/L		ND	ND	ND	ND
3,3'-Dichlorobenzidine	5,0	μg/L	-	ND	ND	ND	ND
Benz(a)anthracene	0.002	цg/L	ND	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND	ND
bis(2-ethylhexyl) phthalate	5,0	μg/L	ND	9 J	30 J	65B	25
Di-n-octyl phthalate	50,0	μg/L /ī	-	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L		ND ND	ND	ND	ND
Benzo(k)fluoranthene Benzo(a)pyrene	0.002 NE	μg/L		ND ND	ND	ND ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L ug T	-	ND ND	ND ND	ND ND	ND ND
		μ <u>ε</u> .Τ μ <u>ε</u> /L	-	ND	ND UD	ND	ND ND
Dihenz(a.h)anthracene)	I NF I						
Dibenz(a,h)anthracene) Benzo(g,h,i) pervlene	NE NE		<u> </u>				
Dibenz(a,h)anthracene) Benzo(g,h,i) perylene (3+4)-Methylphenol	NE NE NE	<u>μ</u> g/L μg/L μg/L		ND ND	ND ND	ND ND	ND ND

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 06/98, Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria, NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected below quantitation limits

B - Analytte detected in the associated Method Blank

^{- =} The analyte was not sampled for.

TABLE 4C Monitoring Well MW-5 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

				ļ		<u> </u>			
	NYSDEC TOGS		s				!		
	1.1.1 Water Quality								
Semi-Volatile Compounds	Standards	Units	08/08/01	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12
Phenol	1.0	μg/L	-	ND	ND ND	ND	ND	ND	ND
bis(2-chloroethyl) ether 2-Chlorophenol	1.0 NE	μg/L		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,3-Dichlorobenzene	3.0	μg/L μg/L	-	ND	ND	ND	ND ND	ND	ND ND
1,4-Dichlorobenzene	3.0	μg/L μg/L	 	ND	ND	ND ND	ND	ND	ND
2-Methylphenol	NE NE	μg/L	† .	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	NE NE	μg/L		ND	ND	ND	ND	ND	ND
Hexachloroethane	5.0	μg/L		ND	ND	ND	ND	ND	ND
Nitrobenzene	0,4	μg/L		ND	ND	ND	ND	ND	ND
Isophorone	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	μg/L	-	ND	ND.	ND	ND	ND	ND
2,4-Dimethylphenol	50,0	μg/L	-	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy) methane	5.0	μg/L		ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.0 NE	μg/L	-	ND	ND ND	ND ND	ND	ND ND	ND
1,2,4-Trichlorobenzene Naphthalene	10.0	μg.L μg/L	59	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-Chloroaniline	5.0	րg/L μg/L	- 25	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Hexachlorobutadiene	0,5	μg/L μg/L		ND	ND	ND ND	ND	ND	ND
4-Chloro-3-methylphenol	NE NE	<u>дд/L</u>	-	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NE NE	μg/L	800	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5.0	μg/L		ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND
2-Chloro-phthalene	10.0	μg/L	<u> </u>	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5.0	μg/L		ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE 50	μ g /L		ND ND	ND ND	ND ND	ND ND	ND ND	ND
2,6-Dinitrotoluene 3-Nitroaniline	5.0	µg/L µg/L	- :	ND	ND	ND ND	ND	ND ND	ND ND
Acenaphthene	20.0	<u>µg</u> /L µg/L	65	ND ND	ND	ND	ND	1 J	1.5 J
2,4-Dinitrophenol	10.0	μg/L μg/L		ND	ND	ND ND	ND	ND	ND
4-Nitrophenol	NE NE	μg/L	-	ND	ND	ND	ND	ND	ND
Dibenzofuran	50.0	μg/L	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	µg/L		ND	ND	ND	ND	ND	ND
Fluorene	50.0	μg/L	93	ND	ND	ND	ND	ND	1.2 J
4-Nitroaniline	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
4.6-Dinitro-2-methylphenol	NE	μ <u>e</u> L	-	ND_	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50.0	μg/L	 -	ND ND	ND ND	ND ND	ND ND	ND ND	ND
4-Bromophenyl phenyl ether Hexachlorobenzene	NE 0.04	μg/L	-	ND	ND	ND .	ND	ND ND	ND ND
Pentachlorophenol	1.0	µg.Ъ µg/L		ND	ND	ND	ND	ND	ND
Phenanthrene	50.0	μg/L	220	ND	ND	ND	ND	ND	ND
Anthracene	50.0	дg/L	ND	ND	ND	ND	ND	ND	ND
Carbazole	NE	μ g /L	-	ND	ND	ND	ND	2 J	3.2 J
Di-n-butyl phthalate	50.0	μ g /L	-	ND	ND	3 J	2 J	ND	ND
Fluoranthene	50,0	μg _e T	ND	ND	ND	ND	ND	ND	ND
Pyrene	50.0	μg/L	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5.0	μg/L	-	ND	ND	ND	ND	ND .	ND
Benz(a)anthracene	0,002	µg,'L_ /r	ND ND	ND	ND	ND	ND	ND ND	ND
Chrysene	0.002	μg/L	ND ND	ND 4J	ND	ND 7 J	ND	ND I	ND ND
bis(2-ethylhexyl) phthalate Di-n-octyl phthalate	5.0 50,0	μg/L ug/I	ND -	75	7 J ND	ND	3 J ND	4J ND	ND ND
Benzo(b)fluoranthene	0.002	μ <u>ε</u> /L μ <u>ε</u> /L		ND	ND	ND ND	ND ND	ND ND	ND
Benzo(k)fluoranthene	0.002	<u>μ</u> ջ/L		ND	ND	ND	ND ND	ND ND	ND
Benzo(a)pyrene	NE NE	<u>μg/L</u> μg/L		ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L μg/L		ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene)	NE NE	μg/L	-	ND	ND	ND	ND	ND	ND
Benzo(g,h,i) perylene	NE	μg/L	-	ND	ND	ND	ND	ND	ND
(3+4)-Methylphenol	NE	μg/L		ND	ND	ND	ND	ND	ND
bis(2-chloroisopropyl) ether	NE	μg/L	-	ND	ND	ND	ND	ND	ND

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effuent Limitations. 06;98, Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected below quantitation limits

B - Analyite detected in the associated Method Blank

^{- =} The analyte was not sampled for.

TABLE 4D Monitoring Well MW-6 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	, ,			 					
Semi-Volatile Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/08/01	07/26/07	68/27/08	07/22/09	07/15/10	07/22/11	07/24/12
Phenol	1.0	μg/L	-	ND	ND	ND	ND	ND	ND
bis(2-chloroethyl) ether	1.0	μg/L	† -	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE NE	μ g/ L	 	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3.0	<u>дд/L</u>	 	ND	ND	ND	ND	ND	ND
1.4-Dichlorobenzene	3.0	μg/L		ND	ND	ND	ND	ND	ND
2-Methylphenol	NE NE	μg/L	 	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	NE NE	μg/L	 	ND	ND	ND	ND	ND	ND
Hexachloroethane	5.0	д <u>е</u> /L		ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	μg/L	! . -	ND	ND	ND	ND	ND	ND
Isophorone	50,0	μg/L		ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE NE	μ <u>ε</u> /L	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	50.0	μg/L	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy) methane	5,0	μ g/ L		ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.0	μg/L	-	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE NE	μg/L μg/L	 	ND	ND	ND	ND	ND	ND
Naphthalene	10.0	дg/L	ND	ND	ND	ND	ND	ND	ND ND
4-Chloroaniline	5.0	дg/L μg/L	-	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	<u>дд/L</u>	 	ND	ND ND	ND	ND ND	ND ND	ND ND
4-Chloro-3-methylphenol	NE NE	μ <u>g/</u> L	-	ND ND	ND ND	ND ND	ND ND	ND	ND
2-Methylnaphthalene	NE NE	με/L με/L	800	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Hexachlorocyclopentadiene	5.0			ND	ND ND	ND ND	ND	ND	ND
2,4,6-Trichlorophenol	NE S.O	μg/L μg/L	- -	ND ND	ND ND	ND ND	ND	ND	ND ND
2,4,5-Trichlorophenol	NE NE		-	ND ND	ND	ND ND	ND	ND	ND
2-Chloro-phthalene	10,0	μg/L μg/L		ND ND	ND ND	ND	ND	ND ND	
			<u> </u>						ND
2-Nitroaniline	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Directly l phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE S.C.	μg/L	<u> </u>	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5.0	μg/L	400	ND	ND	ND	ND	ND	ND
Acenaphthene	20.0	μg-L 	120	ND	3 J	ND	ND	2 J	3.4 J
2,4-Dinitrophenol	10,0	μg/L	-	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE SO S	μg/L	-	ND	ND	ND	ND	ND	ND
Dibenzofuran	50.0	μg/L	72	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5,0	μg/L	-	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE I	μg/L		ND	ND	ND	ND	ND	ND
Fluorene	50,0	μg/L	200	ND	ND	ND 1	ND	ND	ND
4-Nitroaniline	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	μg/L	<u> </u>	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50,0	μg/L		ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NE NE	μg/L	<u> </u>	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	µg/L	<u> </u>	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1,0	µg/L		ND	ND	ND	ND	ND	ND
Phenanthrene	50.0	μg/L	530	ND	ND	ND	ND	ND	ND
Anthracene	50.0	µg.T.	ND	ND	ND	ND	ND	ND	ND
Carbazole	NE	μg/L		ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50.0	μg/L	-	ND	ND	3 J	ND	ND	ND
Fluoranthene	50.0	<u>µе/L</u>	ND	ND	ND	ND	ND	ND	ND
Pyrene	50,0	μg/L	64	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
3.3'-Dichlorobenzidine	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	0.002	μg/L	ND	ND	ND .	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl) phthalate	5.0	μg/L	ND	8 J	2 J	8 J	3 J	4 J	ND
Di-n-octyl phthalate	50.0	μ <u>ε</u> /L	-	5 J	ND	ND	ND	ND	ND _
Benzo(b)fluoranthene	0,002	μg/L	-	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	-	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NE	μg/L	-	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	-	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene)	NE	μg/L	-	ND	ND	ND	ND	ND	ND
Benzo(g,h,i) perylene	NE	μg/L	-	ND	ND	ND	ND	ND	ND
(3+4)-Methylphenol	NE	μg/L	.	ND	ND	ND	ND	ND	ND
bis(2-chloroisopropyl) ether	NE	μg/L	-	ND	ND	ND	ND	ND	ND

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 06/98, Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected below quantitation limits

B - Analyite detected in the associated Method Blank

^{- =} The analyte was not sampled for.

TABLE 4E Monitoring Well MW-7 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

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	NYSDEC TOGS								
	1.1.1 Water Quality		}	1			i		<u> </u>
Semi-Volatile Compounds	Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/23/09	07/15/10	07/22/11	07/24/12
Phenol	1.0	μg/L	<u> </u>	ND	ND	ND	ND	ND	ND
bis(2-chloroethyl) ether	1.0	μg/L		ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE NE	μg/L	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,3-Dichlorobenzene	3.0	μg/L		ND ND	ND	ND ND	ND	ND ND	ND
1,4-Dichlorobenzene 2-Methylphenol	NE	μg/L μg/L	-	ND ND	ND	ND	ND	ND ND	ND
N-Nitrosodi-n-propylamine	NE NE	րց/Ե μg/L		ND ND	ND	ND	ND	ND	ND
Hexachloroethane	5.0	<u>нд/С</u> µg/L	<u> </u>	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	μ <u>ε</u> /L		ND	ND	ND	ND	ND	ND
Isophorone	50,0	<u>нд/L</u>	-	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE NE	μg/L	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	50,0	με/L	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy) methane	5.0	μ <u>ε</u> /L		ND	ND	ND	ND	ND	ND
2.4-Dichlorophenol	1.0	μg/L		ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	μg/L	-	ND	ND	ND	ND	ND	ND
Naphthalene	10.0	μg/L	3,000	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5.0	μg/L		ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	μg/L		ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NE	μg [/] L		ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NE	μg/L	1,100	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5.0	μg/Ĺ		ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	µg/L	<u> </u>	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND
2-Chloro-phthalene	10.0	μ g /L	-	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5,0	μg/L	<u> </u>	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50.0	µg/ L		ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	μg/L		ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5.0	μ <u>e</u> /L	-	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5.0	μg/L	700	ND	ND	ND ND	ND ND	ND	ND
Acenaphthene	20.0	μg/L	590	ND	ND ND	ND	ND ND	ND ND	9.6 J ND
2,4-Dinitrophenol	NE NE	μ <u>e</u> /L	-	ND ND	ND	ND ND	ND	ND ND	ND ND
4-Nitrophenol Dibenzofuran	50.0	μg/L μg/L	ND	ND ND	ND	ND	ND	ND ND	ND ND
2,4-Dinitrotoluene	5.0	րց/Ն μց/Ն	ND	ND ND	ND	ND	ND	ND ND	ND
Diethyl phthalate	50.0	µg/L µg/L	<u> </u>	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE NE	μg/L		ND	ND	ND	ND	ND	ND
Fluorene	50.0	με/L	430	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5.0	<u>де/С</u> μg/L	-	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE NE	μg/L	<u> </u>	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50.0	<u> </u>	-	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NE	µg/L	-	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	μg/L	-	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.0	μ g /L		ND	ND	ND	ND	ND	ND
Phenanthrene	50.0	μg/L	1,100	ND	ND	ND	ND	ND	ND
Anthracene	50.0	μg/L	350	ND	ND	ND	ND	ND	ND
Carbazole	NE	μg/L	-	ND	ND	ND	ND	NĎ	ND
Di-n-butyl phthalate	50.0	μg/L		ND	ND	3 J	1 J	ND	ND
Fluoranthene	50.0	μg/L	270	ND	ND	ND	ND	ND	9.4 J
Pyrene	50,0	μg/L	480	3 J	ND	ND	ND	ND	28
Butyl benzyl phthalate	50.0	µg/L		ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5.0	μg/L		ND	ND	ND	ND	ND	ND
Benz(a)anthracene	0.002	μ <u>ε</u> L	150	1 J	ND	ND	ND	ND	16
Chrysene	0,002	μg/L	140	1 J	ND	ND	ND	ND	17
bis(2-ethylhexyl) phthalate	5.0	μg/L	ND	ND	ND	82 ND	2 J	7 J	8,6 J
_ `		μg/L	- '	ND	ND ND	ND ND	ND ND	ND ND	ND 16
Di-n-octyl phthalate	50.0					1011			10
Di-n-octyl phthalate Benzo(b)fluoranthene	0,002	μg/L	-	1 J					
Di-n-octyl phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene	0,002 0.002	μg/L μg/L		ND	ND	ND	ND	ND	16
Di-n-octyl phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene	0.002 0.002 NE	րք/L րք/L րք/L	-	ND 2 J	ND ND	ND ND	ND ND	ND ND	16 29
Di-n-octyl phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene	0,002 0.002 NE 0,002	μg/L μg/L μg/L μg/L	-	ND 2 J ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	16 29 ND
Di-n-octyl phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene)	0,002 0.002 NE 0,002 NE	µg/L µg/L µg/L µg/L µg, L		ND 2 J ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	16 29 ND ND
Di-n-octyl phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene	0,002 0.002 NE 0,002	μg/L μg/L μg/L μg/L	-	ND 2 J ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	16 29 ND

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998. Class GA.

Bolded concentrations indicated the analyte was detected.

Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

 $NE = NYSDEC\ TOGS\ 1.1.1$ water quality standard not established.

J - Analyte detected below quantitation limits

^{- =} The analyte was not sampled for.

TABLE 4F Monitoring Well MW-8 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	NYSDEC TOGS 1.1.1 Water Quality								
Semi-Volatile Compounds	Standards ¹	Units	10/80/80	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12
Phenol	1.0	μg/L	-	ND	ND	ND	ND	ND	ND
bis(2-chloroethyl) ether	1.0	μg/L	-	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	μg/L	<u> </u>	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3,0	μg/L	'	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene 2-Methylphenol	3.0 NE	μg/L	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
N-Nitrosodi-n-propylamine	NE NE	µg/L µg/L	 	ND	ND ND	ND ND	ND	ND	ND
Hexachloroethane	5.0	дg/L дg/L	1	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	μg/L	1 .	ND	ND	ND	ND	ND	ND
Isophorone	50,0	μg/L	-	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	μg/L	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	50.0	μg/L	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy) methane	5,0	μg/L	-	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1,0	μ g /L	-	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE NE	μ <u>e</u> /L	-	ND	ND	ND	ND	ND	ND
Naphthalene	10.0	μg/L	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5.0	μg.L	<u> </u>	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	μg/L	<u> </u>	ND	ND	ND	ND	ND ND	ND
4-Chloro-3-methylphenol	NE NE	μg/L	- NID	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene Hexachlorocyclopentadiene	NE 5.0	μg/L	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2,4,6-Trichlorophenol	NE	μg/L μg/L	 	ND ND	ND	ND ND	ND ND	ND ND	ND ND
2,4,5-Trichlorophenol	NE NE	μg/L μg/L	 	ND ND	ND	ND ND	ND ND	ND	ND
2-Chloro-phthalene	10.0	μ <u>g</u> /L		ND	ND	ND	ND	ND	ND
2-Nitroaniline	5,0	μg/L	! . .	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	µg/L	-	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5.0	μg/L) -	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5.0	μg/L	-	ND	ND	ND	ND	ND	ND
Acenaphthene	20.0	μg/L	13	4 J	3 J	2 J	2 J	1 J	1.4 J
2,4-Dinitrophenol	10.0	μg/L	<u> </u>	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND
Dibenzofuran	50.0	μg/L	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5.0	μg/L		ND	ND	ND	ND	ND	ND
Diethyl phthalate	50.0 NE	μg/L	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-Chlorophenyl phenyl ether Fluorene	50.0	µg/L µg/L	- ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-Nitroaniline	5.0	րբչՆ	ND	ND ND	ND	ND	ND ND	ND	ND
4,6-Dinitro-2-methylphenol	NE NE	μg/L	_	ND	ND	ND	ND ND	ND	ND
N-Nitrosodiphenylamine	50,0	μg/L	-	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NE	μg/L	-	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	μg/L	-	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.0	μg/L	-	. ND	ND	ND	ND	ND	ND
Phenanthrene	50.0	μg/L	6	ND	ND	ND	ND	ND	ND
Anthracene	50.0	μg/L	ND	ND	ND	ND	ND	ND	NĎ
Carbazole	NE	μg/L		ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50,0	μg/L	-	ND	ND	4 J	2 J	ND	ND
Fluoranthene	50.0	μg/L	8	ND	ND	ND	ND	ND	ND
Pyrene Putul hannul abthalata	50.0 50,0	μ <u>e</u> , L	9	ND	ND ND	ND ND	ND	ND	ND
Butyl benzyl phthalate 3.3'-Dichlorobenzidine	5.0	μ <u>ε</u> . Γ. μ <u>ε</u> /Γ.	-	ND ND	ND ND	ND	ND ND	ND ND	ND ND
Benz(a)anthracene	0.002	<u>µg</u> /L µg/L	- ND	ND ND	ND	ND	ND	ND ND	ND
Chrysene	0.002	μg/L μg/L	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl) phthalate	5.0	μg/L	95	ND	ND	8 J	3 J	4 J	ND
Di-n-octyl phthalate	50.0	<u>дд</u> . С	-	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L		ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	-	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NE	μg L		ND	ND	ND	ND.	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L		ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene)	NE	μg/L		ND	. ND	ND	ND	ND	ND
Benzo(g,h,i) perylene	NE	μg/L		ND	ND	ND	ND	ND	ND
(3+4)-Methylphenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND
bis(2-chloroisopropyl) ether	NE	μg/L	<u>-</u>	ND	ND	ND	ND	ND	ND

^{1.} NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 06/98, Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected below quantitation limits

B - Analyite detected in the associated Method Blank

^{- =} The analyte was not sampled for.

TABLE 5.4
Monitoring Well MW-1
Inorganic Metals Analytical Test Results
153 Fillmore Avenue Site

	NYSDEC TOGS						
Metals Compounds	Standards ¹	Units	08/08/01	07/22/09	01/12/10	07/22/11	07/24/12
Aluminum	2,000	µg/L	t	4,760	48,000	37,300	215,000
Antimony	9	J/gn	-	QN	ND	QN	QN
Arsenic	50	hg/L	11	QN	23	36	184
Barium	2,000	µg/L	301	265	290	545	1,920
Beryllium	3	hg/L	-	QN	ND	QN	7.62
Cadmium	10	µg/L	ND	QN	10.4	QN	151
Calcium	NE	µg/L	_	188,000	635,000	400,000	1,130,000
Chromium	50	µg/L	ND	QN	67.7	58.2	287
Cobalt	NE	ng/L	1	QN	49	35.5	160
Copper	1,000	ng/L	-	9'91	7.77	89.5	437
Iron	009	ng/L	-	22,200	112,000	81,800	311,000
Lead	50	µg/L	7	3.78	80	79	518
Magnesium	35,000	ηg/L	-	35,800	127,000	61,400	226,000
Manganese	009	µg/L	-	2,250	7,410	5,100	9,570
Mercury	0.7	µg/L	ND	GN	0.22	QN	0.52
Nickel	200	µg/L	-	QN	121	78.2	436
Potassium	NE	µg/L	-	4,650	12,600	12,400	51,100
Selenium	10	µg/L	-	QN	3.9	ΩN	ND
Silver	50	µg/L	1	QN	ND	ND	ND
Sodium	NE	μg/L	1	005'62	71,300	81,000	54,000
Thallium	0.5	µg/L	-	QN	QN	ND	QN
Vanadium	NE	µg/L	1	QN	102	87	343
Zinc	5,000	µg/L	1	28.1	402	307	1,310

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class (Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected below quantitation limits

TABLE 5B
Monitoring Well MW-2
Inorganic Metals Analytical Test Results
153 Fillmore Avenue Site

	NYSDEC TOGS						
Metals Compounds	Standards ¹	Units	10/80/80	07/22/09	01/21/10	07/22/11	07/24/12
Aluminum	2,000	µg/L		3,250	98,500	35,400	265,000
Antimony	9	µg/L	-	ND	ND	QN	ΩN
Arsenic	50	ng/L	5	QN	17	32	297
Barium	2,000	µg/L	73	261	2,330	724	3,890
Beryllium	3	µg/L		QN	w	QN	8.35
Cadmium	10	ηg/L	QN	QN	20	5.32	233
Calcium	NE	µg/L	-	213,000	1,240,000	417,000	2,550,000
Chromium	90	hg/L	ND	QN	146	56.2	336.0
Cobalt	NE	µg/L	-	QN	96	30.6	190
Copper	1,000	μg/L	-	29.1	611	199	1,510
Iron	009	μg/L	-	11,300	165,000	71,700	393,000
Lead	50	µg/L	2	13.1	410	140	1,150
Magnesium	35,000	µg/L	•	53,400	315,000	119,000	706,000
Manganese	009	µg/L	1	490	5,250	2,110	8,930
Mercury	0.7	µg/L	ND	ND	2.8	0.542	2.04
Nickel	200	μg/L	•	ND	222	71.6	534
Potassium	NE	µg/L	•	3,580	20,900	11,000	554,000
Selenium	01	µg/L	-	ND	5.6	ND	QN
Silver	50	µg/L	-	QN	QN	QN	QN
Sodium	NE	µg/L		26,900	005'09	58,700	514,000
Thallium	0.5	µg/L	1	ND	QN	ON	ON
Vanadium	NE	µg/L	1	QN	153	92	356
Zinc	5,000	μg/L	ı	8.67	2,060	909	4,100

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class (Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. $NE = NYSDEC\ TOGS\ 1.1.1$ water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected below quantitation limits

TABLE SC
Monitoring Well MW-5
Inorganic Metals Analytical Test Results
153 Fillmore Avenue Site

Metals Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12
Aluminum	2,000	µg/L	,	1,440	5,740	066'9	2,640	1,480	161
Antimony	9	µg/L	-	ND	ND	QN	ON	QN	QN
Arsenic	50	ng/L	11	ND	ND	QN	QN	QN	QN
Barium	2,000	µg/L	2,390	160	999	522	176	239	172
Beryllium	3	µg/L		ND	ND	QN	ON	ΩN	QN
Cadmium	10	ng/L	22	ND	7	QN	ND	QN	QN
Calcium	NE	µg/L	-	164,000	163,000	193,000	173,000	159,000	140,000
Chromium	50	µg/L	ND	ND	13.9	22.1	ND	ND	QN
Cobalt	NE	µg/L	-	ND	ND	QN	ND	ND	QN
Copper	1,000	µg/L		20.8	45.9	79.1	12.9	22	QN
Iron	009	µg/L	1	2,880	12,400	17,200	7,090	4,970	3,450
Lead	50	µg/L	580	64.5	231	527	170	91	QN
Magnesium	35,000	µg/L		31,700	38,500	59,600	39,800	34,600	31,400
Manganese	009	µg/L	1	530	509	591	569	437	225
Mercury	0.7	μg/L	ND	ND	ND	QN	ND	ND	0.689
Nickel	200	μ <u>g</u> /L	1	ND	ND	ND	ND	QN	QN
Potassium	NE	µg/L	1	ND	4,270	2,030	ND	QN	QN
Selenium	10	µg/L	1	8.1	ND	QN	QN	ΩN	47.7
Silver	50	µg/L	t :	ND	ND	QN	QN	QN	N QN
Sodium	ŊĖ	µg/L	1	24,200	18,400	17,200	20,100	19,000	11,000
Thallium	0.5	µg/L	1	ND	ND	QN	ND	ND	QN
Vanadium	NE	µg/L	-	ND	ND	ND	ND	QN	ND
Zinc	5,000	µg/L	1	1,690	2,310	1,670	2,740	984	165

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected below quantitation limits

TABLE 5D
Monitoring Well MW-6
Inorganic Metals Analytical Test Results
153 Fillmore Avenue Site

Metals Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/23/09	07/15/10	07/22/11	07/24/12
Aluminum	2,000	µg/L	1	148	1,630	843	941	202	ND
Antimony	9	µg/L	١	ND	ND	ND	QN	ND	QN
Arsenic	50	hg/L	ND						
Barium	2,000	ng/L	1,660	234	242	230	213	191	207
Beryllium	3	ηg/L	-	ND	ND	QN	ND	ND	ND
Cadmium	10	ng/L	ND	ND	ND	QN	ND	ND	ND
Calcium	NE	µg/L	-	156,000	132,000	146,000	137,000	130,000	149,000
Chromium	50	µg/L	22	ND	ND	ND	ND	ND	ND
Cobalt	NE	µg/L	-	ND	ND	ND	ND	ND	ND
Copper	1,000	µg/L	1	ND	ND	QN	ND	ND	QN
Iron	009	µg/L	1	7,270	10,700	8,050	9,530	7,090	6,220
Lead	50	ηg/L	84	ND	5.91	3.82	9.5	ND	ND
Magnesium	35,000	µg/L	-	27,900	24,300	27,900	24,600	24,800	29,100
Manganese	009	µg/L	-	1,200	2,720	1,690	1,860	1,480	1,080
Mercury	0.7	µg/L	0.2	ND	ND	ND	ND	ND	ND
Nickel	200	ng/L	-	ND	ND	ND	ND	ND	ND
Potassium	NE	µg/L	-	2,190	3,190	3,260	ON	ND	ND
Selenium	10	µg/L	-	13.5	ND	ND	ND	ND	ND
Silver	50	µg/L	-	ND	ND	ND	ND	ND	ND
Sodium	NE	µg/L	-	21,600	21,600	20,600	16,900	16,000	14,700
Thallium	0.5	µg/L	-	ND	ND	ND	ND	ND	ND
Vanadium	NE	ηg/L	-	QN	ND	QN	ND	ND	ND
Zinc	2,000	µg/L	-	63.2	47.6	29.4	39.7	51.6	18.7

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit J - Analyte detected below quantitation limits

Inorganic Metals Analytical Test Results 153 Fillmore Avenue Site Monitoring Well MW-7 TABLE SE

	NYSDEC TOGS 1.1.1 Water Quality								
Metals Compounds	Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/23/09	07/15/10	07/22/11	07/24/12
Aluminum	2,000	µg/L	1	3,390	22,700	4,050	2,120	5,360	4,970
Antimony	9	µg/L	-	ON	ND	ND	QN	QN	35.5
Arsenic	50	µg/L	9	ND	ND	QN	9	ON	115
Barium	2,000	µg/L	163	76.2	173	96	64	84.4	102
Beryllium	3	µg/L	-	ND	ND	ND	ND	QN	QN
Cadmium	10	µg/L	ND	11.7	40.2	QN	QN	15.7	50.3
Calcium	NE	µg/L	-	145,000	299,000	166,000	135,000	185,000	149,000
Chromium	50	µg/L	ND	7.28	36.6	QN	ND	10.8	10.9
Cobalt	NE	µg/L		ND	30.0	QN	QN	Q	QN.
Copper	1,000	µg/L	-	106	293	162	63	134	250
Iron	009	µg/L	1	11,200	38,000	15,200	9,950	17,000	13,500
Lead	50	µg/L	36	9.96	451	231	120	180	329
Magnesium	35,000	µg/L	-	38,100	60,500	30,600	29,500	43,500	30,700
Manganese	009	µg/L	-	942	2,210	1,380	508	1,440	849
Mercury	0.7	hg/L	QN	ND	0.211	ND	ND	Q.	0.541
Nickel	200	μg/L	•	ND	112	36.8	ND	36.2	32.7
Potassium	NE	µg/L	1	12,500	15,000	13,900	9,940	11,100	11,100
Selenium	10	µg/L	•	17.1	ND	ND	ND	QN.	119
Silver	50	µg/L	•	QN	ND	ND	QN	QN	ND
Sodium	NE	µg/L	,	72,900	34,500	88,600	72,100	65,100	58,600
Thallium	0.5	µg/L	1	ND	ND	ND	ND	Q	QN
Vanadium	NE	µg/L	1	ND	46.0	ND	ND	QN	QN
Zinc	5,000	μg/L		2,540	21,000	7,010	2,470	6,270	7,080

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

 $NE = NYSDEC\ TOGS\ 1.1.1$ water quality standard not established.

ND - Not detected for at or above reporting limit J - Analyte detected below quantitation limits

TABLE 5F
Monitoring Well MW-8
Inorganic Metals Analytical Test Results
153 Fillmore Avenue Site

Metals Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/22/00	07715/10	11/20/20	07/04/13
Aluminum	2,000	µg/L	1	QN	1,420	722	199	GN	QN
Antimony	9	µg/L		QN	QN	QN	QN	QN	QN
Arsenic	50	µg/L	14	ND	ND	ND ON	QN	QN	QN
Barium	2,000	µg/L	880	172	175	125	133	107	110
Beryllium	3	µg/L	-	ND	ND	QN	QN	Q.	QN
Cadmium	10	µg/L	ND	ND	QN	QN	ΩN	QN	QN
Calcium	NE	µg/L	1	157,000	149,000	141,000	144,000	141,000	147,000
Chromium	50	µg/L	15	ND	ND	ND	ND	QN	GN
Cobalt	NE	µg/L	•	ND	ND	QN	QN	QN	QN
Copper	1,000	µg/L	-	10.4	15.0	DN	QN	Q.	QN
Iron	009	µg/L	•	3,230	4,640	3,120	2,870	3,090	3,650
Lead	50	µg/L	270	ND	15.4	5.42	11	QN	16.6
Magnesium	35,000	µg/L	1	28,700	27,100	28,100	25,300	26,200	28,300
Manganese	009	µg/L	1	802	891	618	999	817	819
Mercury	0.7	µg/L	QN	ON	ND	QN	QN	QN	QN
Nickel	200	µg/L	•	ND	ND	QN	ND	QN.	QN
Potassium	NE	µg/L	-	1,780	4,060	3,080	ND	QN	QN
Selenium	10	µg/L	1	9.46	ND	ND	QN	QN	24.1
Silver	50	µg/L	1	ND	ND	ND	ND	Q.	QN
Sodium	NE	μg/L	1	30,100	24,000	22,600	22,600	22,700	19,800
Thallium	0.5	µg/L	1	ND	ND	ND	QN	QN	QN
Vanadium	NE	µg/L	1	ND	ND	ND	ON	ON	QN
Zinc	5,000	μg/L	1	189	630	250	375	33	43.3

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected below quantitation limits

APPENDICES



APPENDIX A

Groundwater Field Sampling Records



SITE 153	Fillmore Avenue	_	DATE	07/24/12	
Sampler: Brian	n Doyle	_	SAMPLE ID	MW-01; MS/MSD	
	Depth of well (from top of casing) Initial static water level (from top of casing Top of PVC Casing Elevation			560.97 566.10	
Evacuation Met	hod:		Well Volume	e Calculation	
Peristaltic	X Centrifugal	1 in. casing;		ft. of water x .09 =	gallons
Airlift	Pos. Displ.	2 in. casing:	5.1	ft. of water x .16 =	0.82 gallons
Bailer	>>> No. of bails	3 in. casing:		ft. of water x .36 =	gallons
Volume of w	ater removed 2.46 gals.				
	> 3 volumes: yes no]			
Field Tests:	Temp: pH Conductivity DO Turbidity Oxidation Reduction Potential (ORP)	21.41 C 7.14 0.794 mS/cm 1.35 mg/L NA NTUs -120 mV			
Sampling:				Time: 12:00 PM	
Sampling Method:	Peristaltic Pump X Disposable Bailer Disposable Tubing X	- - -			
Observations:					
Weath	ner/Temperature: Clear, 80 ° F			W	
Physic	cal Appearance and Odor of Sample:	Light brown, murky.	No odor. Gr	out like substance found a	ound
Comments:	Field equipment unable to record a tur	bidity reading due to y	erv murkv wa	ter.	

SITE 153 F	illmore Avenue	D	ATE	07/24/12	
Sampler: Brian	Doyle	S	AMPLE ID	MW-02	
	Depth of well (from top of casing) Initial static water level (from top of casing) Top of PVC Casing Elevation			561.69 567.49	
Evacuation Meth	od:	V	Vell Volume	Calculation	
Peristaltic	X Centrifugal	1 in. casing:		ft. of water x .09 =	gallons
Airlift	Pos. Displ.	2 in. casing:	5.8	ft. of water $x . 16 =$	0.93 gallons
Bailer	>>> No. of bails	3 in. casing:		ft. of water $x . 36 =$	gallons
Volume of wa	ter removed 2.78 gals. > 3 volumes: yes no dry: yes no				
Field Tests:	pH	18.17 C 7.32 0.796 mS/cm 3.50 mg/L NA NTUs -83 mV			
Sampling:				Time: 12:30	PM
Sampling Method:	Peristaltic Pump X Disposable Bailer Disposable Tubing X				
Observations:					
Weath	er/Temperature: Clear, 85° F				
Physic	al Appearance and Odor of Sample:	own, very murky and	i turbid		
Comments:	Field equipment unable to record a turbidit	ty reading due to ver	y murky wat	ter,	

SITE	153 F	illmore Avenue		DATE	07/24/12	·
Sampler:	Brian	Doyle		SAMPLE ID	MW-05	
Evacuation	n Meth	Depth of well (from top of casing) Initial static water level (from top of casing) Top of PVC Casing Elevation			562.82 567.52	
			1774			0.40
Perista		X Centrifugal	1 in. casing:		ft. of water x .09 =	0.42 gailons
Airlift		Pos. Displ.	2 in. casing:		ft. of water x .16 =	gallons
Bailer	r	>>> No. of bails	3 in, casing:		ft. of water x .36 =	gallons
Volum	ne of wat	> 3 volumes: yes no dry: yes no				
Field Tests	s:	Temp: pH Conductivity DO Turbidity Oxidation Reduction Potential (ORP)	20.28 C 7.42 0.789 mS/cm 10.33 mg/L 285.0 NTUs -104 mV			
Sampling:					Time: 10:00 AM	
Sampling Me	ethod:	Peristaltic Pump X Disposable Bailer Disposable Tubing X				
Observatio	ons:					
	Weathe	er/Temperature: Clear, 80° F				
		-	rayish, murky with	oil residue; sli	ght sulfer odor.	
Comments	:	Approximately 0.5 gallons of water was re	emoved before well	l went dry.	<u></u>	

SITE	153 Fi	llmore Avenue)		_		DATE		07/24/12			
Sampler:	Brian l	Doyle			-		SAMPL	E ID	MW-06; FI	<u> </u>		
	N 4	Initial static w	(from top of ca ater level (from asing Elevatio	n top of casing		17.3 10.2 578.13	ft	EL	560.83 567.93			
Evacuatio	n Metho	od:					Well V	olume	Calculation			
Perist	altic	<u> </u>	Centrifugal		-	1 in. casing:		7.1	ft. of water x .()9 =	0.64 gailons	
Airlif	t		Pos. Displ.		-	2 in. casing:			ft. of water x .	6 =	gailons	
Bailer	r		>> No. of bails		-	3 in. casing:			ft. of water x .3)6 = 	gallons	
Volur	ne of wat	er removed > 3 volumes: dry:	1.92 yes	gals. no]							
Field Test	ts:	Temp: pH Conductivity DO Turbidity Oxidation Rec	luction Potenti	al (ORP)	2.91	mS/cm mg/L NTUs						
Sampling:	:								Time:	10:30 AM	[
Sampling M	ethod:	Peristaltic Pum Disposable Bail Disposable Tub	er	<u> </u>	- - -							
Observation	ons:											
	Weathe	er/Temperature:	Clear, 80°	F								
	Physica	al Appearance a	nd Odor of Sar	nple:	Oil resid	lue througho	ut purgi	ng and	l sampling. S	Slight odor.		_
Comments	s:											

SITE 153 F	fillmore Avenue		DATE	07/24/12	
Sampler: Brian	Doyle		\$ AMPLE ID	MW-07	
	Depth of well (from top of casing) Initial static water level (from top of casing) Top of PVC Casing Elevation	23.5 (See Comments) 586.26		562.76	
Evacuation Metl	nod:		Well Volume	: Calculation	
Peristaltic	X Centrifugal	t in. casing:		ft. of v.ater x .09 =	gallons
Airlift	Pos. Displ.	2 in, casing:		ft, of water x .16 =	gallons
Bailer	>>> No , of bails	3 in, casing:		ft, of water x 36 =	gallons
Volume of wa	ater removed 1.25 vals.				
	> 3 volumes: yes no				
	dry yes no				
Field Tests:	Тетр:	NA C			
	pH	NA ms/am			
	Conductivity DO	NA mS/cm NA mg/L			
	Turbidity	NA NTUs			
	Oxidation Reduction Potential (ORP)	NA mV			
Sampling:				Time: 11:30 A	M
Sampling Method:	Peristaltic Pump X				
-	Disposable Bailer				
	Disposable Tubing X				
Observations:					
Weath	er/Temperature: Clear, 80° F				
Physic	al Appearance and Odor of Sample: Clea	r then light brown, murk	y. Slight sedin	nent odor.	
Comments:	Approximately 0.2 gallons of water removed			1.0	
	Water quality parameter meter unable to rec There was an obstruction in the well at a dep				· · · · · · · · · · · · · · · · · · ·
	further down the well. The initial static was				
	of water to be purged.			and and allow	

SITE	153 Fi	llmore Avenue	•		_		DATE	07/24/12	<u> </u>
Sampler:	Brian l	Doyle	· · · · · · · · · · · · · · · · · · ·		-		SAMPLE ID	MW-08	
Evacuatio	n Metho	Initial static w	(from top of ca ater level (from Casing Elevation	top of casin		17.5 10.6 578.43		560.93 567.83	
Perist Airlifi Bailer	altic	<u>x</u>	Centrifugal Pos. Displ. No. of bails		-	1 in. casing: 2 in. casing: 3 in. casing:		ft. of water x .09 = ft. of water x .16 = ft. of water x .36 =	0.62 gailons gailons gallons
Volun	ne of wate	er removed > 3 volumes: dry:	1.86 yes	gals.]				
Field Test	s:	Temp: pH Conductivity DO Turbidity Oxidation Red	luction Potentia	al (ORP)	8,60	mS/cm mg/L NTUs			
Sampling:								Time: 9:00) AM
Sampling Me	ethod:	Peristaltic Pump Disposable Baile Disposable Tubi	er	<u>x</u> <u>x</u>	- - -				
Observation	ons:								
	Weathe	r/Temperature:	Clear, 80°	F					<u> </u>
Commission		l Appearance ar	nd Odor of Sam	ple:	Fairly cle	ear, some od	or		
Comments	<u>:</u>						· · · · · · · · · · · · · · · · · · ·		

APPENDIX B

Laboratory Analytical Results



Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209

Mailing: Box 169 * Syracuse, NY 13206

Albany (518) 459-3134 * Binghamton (607) 239-4413 * Buffalo (716) 972-0371

Rochester (866) 437-0255 * New Jersey (908) 581-4285

Mr. David Rowlinson

GHD, Inc.

200 John James Audubon Parkway

Suite 101

Amherst, NY 14228

(716) 691-8503

Thursday, August 09, 2012

Order No.: U1207590

RE: Analytical Report:

153 Fillmore Ave

Dear Mr. David Rowlinson:

Upstate Laboratories, Inc. received 9 sample(s) on 7/25/2012 for the analyses presented in the following report.

All analytical results relate to the samples as received by the laboratory.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

We have included the Chain of Custody Record as part of your report. The NYS DOH requires that all samples received by the laboratory must have a Collection Date and Time, and a Relinquished By signature. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala

President/CEO

CC:

Enclosure: report

J. Zimmerman, Vali-Data of WNY LLC: ASP-B on disk

Confidentiality Statement: This report is meant for the use of the intended recipient. It may contain confidential information, which is legally privileged or otherwise protected by law. If you have received this report in error, you are strictly prohibited from reviewing, using, disseminating, distributing or copying the information.

NY Lab ID 10170 NJ Lab ID NY750 PA Lab ID 68-01096

Sample Receipt Checklist

1	Client Name GHD CONSULTING ENG.	Date and Time Receive	7/25/2012 8:45:00 AM
	Work Order Number U1207590	Received by: BLM	
	Checklist completed by Signature 1 Date 1 Date	Reviewed by hintels	7/30/10 Date
*	Matrix: Carrier name: <u>Velocity</u>	*	
	Shipping container/cooler in good condition?	No Not Present	
	Custody seals intact on shippping container/cooler?	No ☐ Not Present ☑	
	Custody seals intact on sample bottles?	No ☐ Not Present ☑	
3	Chain of custody present?	No 🗆	
	Chain of custody signed when relinquished and received?	No 🗀	
J	Chain of custody agrees with sample labels?	No 🗆	
W.	Samples in proper container/bottie?	No 🗀	
	Sample containers intact?	No 🗀	
	Sufficient sample volume for indicated test?	No 🗹	
	All samples received within holding time?	No 🗆	
	Container/Temp Blank temperature in compliance?	No 🗀	_
6	Ice present in cooler 4.7	No ☐ Ice Melted 🗹	N/A or Unknown
	Water - VOA vials have zero headspace? No VOA vials submitted □	Yes 🗹 No 🗌	
A.	Water - pH acceptable upon receipt?	No 🗹	
H		oked by KC 7/25/12 0941	
	Any No and/or NA (not applicable) response must be detailed in the comments section I	mwi-mwz-	metals
	Client contacted Date contacted:	Person contacted	
· .	Contacted by: Regarding:	<u>(·</u>	
	Comments: SVOC for mw-7 ve	ry limited v	dune
春			
	Corrective Action		

Analytical		Date: 09-Aug-12								
CLIENT:	GHD, Inc.			Client Sample ID: MW-1						
Lab Order:	U1207590			Col	lection	Date: 7/24/201	2 12:00:00 PM			
	153 Fillmore Ave									
Project:	U1207590-001				М	atrix: WATER				
Lab ID:										
Analyses		Result	Limit	Qual Ur	uits ———	DF	Date Analyzed			
				Lab Co	vde: 200	.7WTASP	Analyst: LET			
CP METALS	S, TOTAL BY NYSDEC ASI otal Metals- EPA 3005A Prep	2005 Code: 200 7TPR	ASP Prep	Date: 7/26/			By: ARO]			
AqPrep c	Metals- EPA 3003A Piep	215000	100	ha.		3	8/3/2012 11:54:54 AM			
Barium		1920	50.0	μg	'L	1	8/3/2012 11:54:54 AM			
Beryllium		7.62	3.00	рg	'L	1	8/3/2012 11:54:54 AM			
Cadmium		151	5.00	h8	'L	1	8/3/2012 11:54:54 AM			
Calcium		1130000	25000	μg	'L	5	8/3/2012 4:46:47 PM			
Chromium		287	10.0	μg	'L	1	8/3/2012 11:54:54 AM			
Cobalt		160	20.0	μg	'L	1	8/3/2012 11:54:54 AM			
Copper		437	10.0	μg	'L	1	B/3/2012 11:54:54 AM			
Iron		311000	60.0	µg	'L	1	8/3/2012 11:54:54 AM			
Magnesium		226000	5000	μg	L.	1	8/3/2012 11:54:54 AM			
Manganese		9570	10.0	μg	'L	3	8/3/2012 11:54:54 AM			
Nickel		436	30.0	μg	'L	21	8/3/2012 11:54:54 AM			
Potasslum		51100	25000	μg	'L	5	8/3/2012 4:46:47 PM			
Silver		ND	10.0	μg	'L	1	8/3/2012 11:54:54 AM			
Sodium		54000	5000	μg	'L	1	8/3/2012 11:54:54 AM			
Vanadium		343	30.0	μg		1	8/3/2012 11:54:54 AM			
		1310	10.0	μg/		1	B/3/2012 11:54:54 AM			
Zinc										
	METALS BY ICP-MS BY E	20 200 R		Lab Co	ode: 200	.8ASP	Analyst: ALW			
ASP IOTAL	SP Total Metals: - EPA 3005A	Pren Code: 200	.8TPRASP			12 10:52:45 AM	Prep By: ARO]			
Antimony	SP TOtal Wetals. FLFA 3000A	ND	25.0	h84		5	7/30/2012 3:58:34 PM			
Arsenic		184	25.0	μg	'L	5	7/30/2012 3:58:34 PM			
Lead		518	75.0	μg	'L	25	8/1/2012 9:47:00 AM			
Selenium		ND	15.0	h84	'L	5	7/30/2012 3:58:34 PM			
Thallium		ND	15.0	þд	'L	5	7/30/2012 3:58:34 PM			
NOTES:		,								
	g limits were raised due to mat	rix interference.								
-0741 MED	CURY WATERS ASP BY E	DA 245 2		Lab Co	ode: 245	i.2WTASP	Analyst: LET			
OIAL MER	rep by 245.2 Prep Code: 245	2TPRASP Pre	n Date: 7/26							
Mercury	1ap by 240.2 1 1ep 0000. 240	0.522	0.200	µg	'L	1	8/2/2012 2:16:03 PM			
•										
rci _eemiv//	OL ORGANICS BY NYSDE	C ASP 2005		Lab Co	ode: 82 7	O_ASPTCL_W	Analyst: LD			
AnPren Se	p Funnel: ASP BNA by EPA 3	510C Prep Cod	e: 3510ASP		p Date:	7/27/2012 8:10:03	AM Prep By: DMH]			
(3+4)-Methyl		ND	8.3	_ 	'L	1	7/30/2012 2:27:00 PM			
1,2,4-Trichlo		ND	8.3	µg	'L	1	7/30/2012 2:27:00 PM			
Approved I	By: DLJ			Date:	8-9	12	Page 1 of 3			
		V NVS DOH for th	is narameter		Low Lo	evel				
Qualifiers:				В			ociated Method Blank			
				н			ion or analysis exceeded			
	E Value above quantitation n	-		ND		tected at the Report				
	J Analyte detected below qua		thic paramete				cepted recovery limits			
	Q Outlying QC recoveries we	re associated with	uns paramete	. 3	Phike I	, ondiec no				

"Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-001

Date: 09-Aug-12

Client Sample ID: MW-1

Collection Date: 7/24/2012 12:00:00 PM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
	· · · · · · · · · · · · · · · · · · ·					
TCL-SEMIVOL ORGANICS BY NYSDEC AS	SP 2005				70_ASPTCL_W	
[AqPrep Sep Funnel: ASP BNA by EPA 35100		e: 3510ASP	_BNA	•	7/27/2012 8:10:03	3 AM Prep By: DMH] 7/30/2012 2:27:00 PM
1,2-Dichlorobenzene	ND	8.3		µg/L	1	7/30/2012 2:27:00 PM
1,3-Dichlorobenzene	ND	8.3		µg/L 	100	
1,4-Dichlorobenzene	ND	8.3		µg/L	1	7/30/2012 2:27:00 PM
2,4,5-Trichlorophenol	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
2,4,6-Trichlorophenol	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
2,4-Dichlorophenol	ND	8.3		µg/L	1	7/30/2012 2:27:00 PM
2,4-Dimethylphenol	ND	8.3		µg/L	1	7/30/2012 2:27:00 PM
2,4-Dinitrophenol	ND	17		μġ/L	1	7/30/2012 2:27:00 PM
2,4-Dinitrotoluene	ND	8.3		h8/L	1	7/30/2012 2:27:00 PM
2,6-Dinitrotoluene	ND	8.3		hã/r	1	7/30/2012 2:27:00 PM
2-Chioronaphthalene	ND	8.3		µg/L	1	7/30/2012 2:27:00 PM
2-Chlorophenol	ND	8.3		µg/L	1	7/30/2012 2:27:00 PM
2-Methylnaphthalene	ND	8.3		µg/L	1	7/30/2012 2:27:00 PM
2-Methylphenol	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
2-Nitroaniline	ND	17		μg/L	1	7/30/2012 2:27:00 PM
2-Nitrophenol	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
3,3'-Dichlorobenzidine	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
3-Nitroaniline	ND	17		µg/L	1	7/30/2012 2:27:00 PM
4,6-Dinitro-2-methylphenol	ND	17		μg/L	1	7/30/2012 2:27:00 PM
4-Bromophenyl phenyl ether	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
4-Chloro-3-methylphenol	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
4-Chloroanlline	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
4-Chlorophenyl phenyl ether	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
4-Nitroaniline	ND	17		μg/L	1	7/30/2012 2:27:00 PM
4-Nitrophenol	ND	17		μg/L	1	7/30/2012 2:27:00 PM
Acenaphthene	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
Acenaphthylene	ND	8,3		μg/L	1	7/30/2012 2:27:00 PM
Anthracene	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
Benz(a)anthracene	ND	8.3		µg/L	1	7/30/2012 2:27:00 PM
Benzo(a)pyrene	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
Benzo(b)fluoranthene	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
Benzo(g,h,i)perylene	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
Benzo(k)fluoranthene	ND	8.3		µg/L	1	7/30/2012 2:27:00 PM
Bis(2-chloroethoxy)methane	ND	8.3		μg/L	1:	7/30/2012 2:27:00 PM
	ND	8.3		μg/L	1	7/30/2012 2:27:00 PM
Bis(2-chloroethyl)ether	ND	8.3		µg/L	1	7/30/2012 2:27:00 PM
Bis(2-chloroisopropyl)ether	2.3	8.3	J	ha\r	1	7/30/2012 2:27:00 PM
Bis(2-ethylhexyl)phthalate	2.3	0.3	J	hA₁ ⊢	7.0	

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits
- Outlying QC recoveries were associated with this parameter Q

Date:

Page 2 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
 - Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-001

Date: 09-Aug-12

Client Sample ID: MW-1

Collection Date: 7/24/2012 12:00:00 PM

Matrix: WATER

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
				-	
TCL-SEMIVOL ORGANICS BY NYSDEC A	SP 2005		ab Code: 827		
[AqPrep Sep Funnel: ASP BNA by EPA 35100	Prep Code	e: 3510ASP_BN/	•	/27/2012 8:10:	
Butyl benzyl phthalate	ND	8.3	µg/L	1	7/30/2012 2:27:00 PM
Carbazole	ND	8.3	µg/L	1	7/30/2012 2:27:00 PM
Chrysene	ND	8.3	µg/L	3	7/30/2012 2:27:00 PM
Di-n-butyl phthalate	ND	8.3	µg/L	1	7/30/2012 2:27:00 PM
Di-n-octyl phthalate	ND	8.3	µg/L	1	7/30/2012 2:27:00 PM
Dibenz(a,h)anthracene	ND	8.3	µg/L	1	7/30/2012 2:27:00 PM
Dibenzofuran	ND	8.3	µg/L	1	7/30/2012 2:27:00 PM
Diethyl phthalate	ND	8.3	µg/L	1	7/30/2012 2:27:00 PM
Dimethyl phthalate	ND	8.3	µg/L	1	7/30/2012 2:27:00 PM
Fluoranthene	ND	8.3	µg/L	-1	7/30/2012 2:27:00 PM
Fluorene	ND	8.3	µg/L	1	7/30/2012 2:27:00 PM
Hexachlorobenzene	ND	8.3	μg/L	1	7/30/2012 2:27:00 PM
Hexachlorobutadiene	ND	8.3	μg/L	1	7/30/2012 2:27:00 PM
Hexachlorocyclopentadiene	ND	8.3	μg/L	1	7/30/2012 2:27:00 PM
Hexachloroethane	ND	8.3	μg/L	1	7/30/2012 2:27:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.3	µg/∟	1	7/30/2012 2:27:00 PM
Isophorone	ND	8.3	μg/L	1	7/30/2012 2:27:00 PM
N-Nitrosodi-n-propylamine	ND	8.3	μg/L	1	7/30/2012 2:27:00 PM
N-Nitrosodiphenylamine	ND	8.3	μg/L	1	7/30/2012 2:27:00 PM
Naphthalene	ND	8.3	μ g/ L	1	7/30/2012 2:27:00 PM
Nitrobenzene	ND	8.3	µg/L	1	7/30/2012 2:27:00 PM
Pentachlorophenol	ND	17	μg/L	1	7/30/2012 2:27:00 PM
Phenanthrene	ND	8.3	μg/L	1	7/30/2012 2:27:00 PM
Phenoi	ND	8.3	μg/L	1	7/30/2012 2:27:00 PM
Pyrene	ND	8.3	μg/L	1	7/30/2012 2:27:00 PM
TIC: unknown (15.209)	12	0	μg/L	1	7/30/2012 2:27:00 PM
TIC: unknown (17.966)	29	0	μg/L	1	7/30/2012 2:27:00 PM
ASP/CLP VOLATILES: WATER BY METHO	D 5030/826	60B L	ab Code: 826 6	ASP_TCL_V	V Analyst: EMZ
1,1,1-Trichioroethane	ND	5.0	μg/L	1	8/2/2012 6:08:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	8/2/2012 6:08:00 PM
1,1,2-Trichloroethane	ND	5.0	μg/L	1	8/2/2012 6:08:00 PM
1.1-Dichloroethane	ND	5.0	µg/L	1	8/2/2012 6:08:00 PM
1.1-Dichloroethane	ND	5.0	µg/L	1	8/2/2012 6:08:00 PM
.,. =	ND	5.0	μg/L	1	8/2/2012 6:08:00 PM
1,2-Dichloroethane	ND	VIV.	- A -		

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits J
- Outlying QC recoveries were associated with this parameter Q

Date:

Page 3 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

Date: 09-Aug-12

Client Sample ID: MW-1

Collection Date: 7/24/2012 12:00:00 PM

U1207590-001

Matrix: WATER

Analyses	Result	Limit	Qual Un	its DF	Date Analyzed
ASP/CLP VOLATILES: WATER E	BY METHOD 5030/82	60B	Lab Co	de: 8260ASP_TCL_	W Analyst: EM
1,2-Dichloropropane	ND	5.0	µg/	L 1	8/2/2012 6:08:00 PM
2-Butanone	ND	10	μg/	L 1	8/2/2012 6:08:00 PM
2-Hexanone	ND	10	μg/	L 1	8/2/2012 6:08:00 PM
4-Methyl-2-pentanone	ND	10	μg/		8/2/2012 6:08:00 PM
Acetone	ND	10	μg/	L #	8/2/2012 6:08:00 PM
Berizene	ND	5.0	μg/l	_ 1	8/2/2012 6:08:00 PM
Bromodichloromethane	ND	5.0	μg/l	. (1	8/2/2012 6:08:00 PM
Bromoform	ND	5.0	μg/l	_ 1	8/2/2012 6:08:00 PM
Bromomethane	ND	5.0	μg/i		8/2/2012 6:08:00 PM
Carbon disulfide	ND	5.0	µg/l		8/2/2012 6:08:00 PM
Carbon tetrachioride	ND	5.0	µg/l		8/2/2012 6:08:00 PM
Chlorobenzene	ND	5.0	µg/l	_ 1	8/2/2012 6:08:00 PM
Chloroethane	ND	5.0	μg/l	. 1	8/2/2012 6:08:00 PM
Chloraform	ND	5.0	µg/l	. 1	8/2/2012 6:08:00 PM
Chloromethane	ND	5.0	μg/l	. 1	8/2/2012 6:08:00 PM
cis-1,2-Dichloroethene	55	5.0	μg/l	. 1	8/2/2012 6:08:00 PM
cis-1,3-Dichloropropene	ND	5.0	μg/l	. 1	8/2/2012 6:08:00 PM
Dibromochloromethane	ND	5.0	μg/ί	. 1	8/2/2012 6:08:00 PM
Ethylbenzene	ND	5.0	μg/L	. 1	8/2/2012 6:08:00 PM
m,p-Xylene	ND	5.0	μg/L	. 1	8/2/2012 6:08:00 PM
Methylene chloride	ND	5.0	μg/L	. 1	8/2/2012 6:08:00 PM
o-Xylene	ND	5.0	μg/L		8/2/2012 6:08:00 PM
Styrene	ND	5.0	μg/L	. 1	8/2/2012 6:08:00 PM
Tetrachloroethene	ND	5.0	µg/L	. 1	8/2/2012 6:08:00 PM
Toluene	ND	5.0	μg/L	. 1	8/2/2012 6:08:00 PM
rans-1,2-Dichloroethene	2.3	5.0	J µg/L	. 1	8/2/2012 6:08:00 PM
trans-1,3-Dichloropropene	ND	5.0	µg/L		8/2/2012 6:08:00 PM
Trichloroethene	ND	5.0	μg/L	. Ĩ	8/2/2012 6:08:00 PM
Vinyl chloride	16	5.0	µg/L		8/2/2012 6:08:00 PM
NOTES:					

Approved By: D

TICS: No compounds were detected.

Qualifiers:

Accreditation not offered by NYS DOH for this parameter

Value exceeds Maximum Contaminant Value

Value above quantitation range Ε

Analyte detected below quantitation limits

Outlying QC recoveries were associated with this parameter Q

Date:

Page 4 of 34

Low Level

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

Spike Recovery outside accepted recovery limits

Analytical F	Report			1	Date: 09-Aug	g-12		
CLIENT:	GHD, Inc.			Client Sampl	e ID: MW-2			
Lab Order:	U1207590			Collection 1	Date: 7/24/2	012 12:45:00 PM		
Project:	153 Fillmore Ave							
Lab ID:	U1207590-002			Ma	trix: WATE	ER.		
Analyses		Result	Limit	Qual Units	DF	Date Analyzed		
CP METALS, 1	TOTAL BY NYSDEC ASP	2005		Lab Code: 200.	7WTASP	Analyst: LET		
[AqPrep Total	Metals- EPA 3005A Prep (Code: 200.7TPR		Date: 7/26/2012 10:5		By: ARO]		
Aluminum		265000	100	µg/L	1	8/3/2012 12:17:45 PM		
Barlum		3890	50.0	h8/F	1	8/3/2012 12:17:45 PM		
Beryllium		8.35	3.00	µg/L	1	8/3/2012 12:17:45 PM		
Cadmium		233	5.00	µg/L	1	8/3/2012 12:17:45 PM		
Calcium		2550000	25000	μ g /L	5	8/3/2012 5:09:15 PM		
Chromium		336	10.0	µg/L	1	8/3/2012 12:17:45 PM		
Cobalt		190	20.0	µg/L	1	8/3/2012 12:17:45 PM		
Copper		1510	10.0	μ g /L	1	B/3/2012 12:17:45 PM		
Iron		393000	60.0	µg/L	1	8/3/2012 12:17:45 PM		
Magnesium		706000	5000	μg/L	1	8/3/2012 12:17:45 PM		
Manganese		8930	10.0	μ g/ L	1	8/3/2012 12:17:45 PM		
Nickel		534	30.0	μg/L	1	8/3/2012 12:17:45 PM		
Potassium		55400	25000	μg/L	5	8/3/2012 5:09:15 PM		
Silver		ND	10.0	μg/L	1	8/3/2012 12:17:45 PM		
Sodium		51400	5000	μg/L	1	8/3/2012 12:17:45 PM		
Vanadium		356	30.0	μg/L	1	8/3/2012 12:17:45 PM		
Zinc		4100	10.0	μg/L	1	8/3/2012 12:17:45 PM		
SP TOTAL ME	ETALS BY ICP-MS BY EF	PA 200 8		Lab Code: 200.8	BASP	Analyst: ALW		
	otal Metals: - EPA 3005A		.8TPRASP	Prep Date: 7/26/2012		Prep By: ARO]		
Antimony		ND	50.0	μg/L	10	7/30/2012 3:58:34 PM		
Arsenic		297	50.0	μg/L	10	7/30/2012 3:58:34 PM		
Lead		1150	150	μg/L	50	8/1/2012 9:47:00 AM		
Selenium		ND	30.0	μg/L	10	7/30/2012 3:58:34 PM		
Thallium		ND	30.0	μg/L	10	7/30/2012 3:58:34 PM		
NOTES:				-				
The reporting lin	nits were raised due to matri	c interference.						
OTAL MERCU	RY WATERS ASP BY EF	A 245.2		Lab Code: 245.2	WTASP	Analyst: LET		
[Hg Total Prep	by 245.2 Prep Code: 245.2	TPRASP Pre	p Date: 7/26	/2012 11:22:36 AM	Prep By: ARO]			
Mercury		2.04	0.200	μg/L	1	8/2/2012 2:22:19 PM		
CL-SEMIVOL (ORGANICS BY NYSDEC	ASP 2005		Lab Code: 8270	_ASPTCL_W	Analyst: LD		
[AqPrep Sep Ft	unnel: ASP BNA by EPA 351	OC Prep Code	e: 3510ASP_	BNA Prep Date: 7/2	7/2012 8:10:03			
(3+4)-Methylpher		ND	5.0	µg/L	1	7/30/2012 4:25:00 PM		
1,2,4-Trichiorobe	enzene	ND	5.0	μg/L	1 	7/30/2012 4:25:00 PM		
approved By:	PH			Date: 8-9-/	2	Page 5 of 2		
ualifiers: #	Accreditation not offered by I	NYS DOH for thi	s parameter	* Low Leve	1			
**	Value exceeds Maximum Cor		-	B Analyte d	etected in the ass	sociated Method Blank		
Е	E Value above quantitation range				imes for preparat	or preparation or analysis exceeded		
J	Analyte detected below quant			ND Not Detec	ted at the Report	ting Limit		
•	·				=	sautad associani limits		

Spike Recovery outside accepted recovery limits

Outlying QC recoveries were associated with this parameter

Analytical Report

CLIENT: GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-002

Date: 09-Aug-12

Client Sample ID: MW-2

Collection Date: 7/24/2012 12:45:00 PM

Matrix: WATER

DF **Date Analyzed** Limit Qual Units Result Analyses

CL-SEMIVOL ORGANICS BY NYSDEC AS			Lab Code: 82		
[AqPrep Sep Funnel: ASP BNA by EPA 3510C	•	: 3510ASP_B	•	7/27/2012 8:10	
1,2-Dichlorobenzene	ND	5.0	hg/L	1	7/30/2012 4:25:00 PI
1,3-Dichlorobenzene	ND	5.0	hð/F	4	7/30/2012 4:25:00 PI
1,4-Dichlorobenzene	ND	5.0	μg/L	1	7/30/2012 4:25:00 PI
2,4,5-Trichlorophenol	ND	5.0	µg/L	1	7/30/2012 4:25:00 PI
2,4,6-Trichlorophenol	ND	5.0	µg/L	1	7/30/2012 4:25:00 PI
2,4-Dichlorophenol	ND	5.0	µg/L	1	7/30/2012 4:25:00 PI
2,4-Dimethylphenol	ND	5.0	μg/L	1	7/30/2012 4:25:00 PI
2,4-Dinitrophenol	ND	10	µg/L	.1	7/30/2012 4:25:00 PI
2,4-Dinitrotoluene	ND	5.0	µg/L	11	7/30/2012 4:25:00 PI
,6-Dinitrotoluene	ND	5.0	μg/L	1	7/30/2012 4:25:00 PI
-Chloronaphthalene	ND	5.0	µg/L	81	7/30/2012 4:25:00 PI
-Chlorophenol	ND	5.0	μg/L	1	7/30/2012 4:25:00 Pf
-Methylnaphthalene	ND	5.0	μg/L	1	7/30/2012 4:25:00 Pf
-Methylphenoi	ND	5.0	μ g /L	1	7/30/2012 4:25:00 PI
-Nitroaniline	ND	10	μg/L	7	7/30/2012 4:25:00 PI
-Nitrophenol	ND	5.0	μg/Ľ	1	7/30/2012 4:25:00 Pf
3'-Dichlorobenzidine	ND	5.0	μg/L	1	7/30/2012 4:25:00 Pf
-Nitroaniline	ND	10	μg/L	1	7/30/2012 4:25:00 PM
,6-Dinitro-2-methylphenol	ND	10	μg/L	1	7/30/2012 4:25:00 PM
-Bromophenyl phenyl ether	ND	5.0	μg/L	1	7/30/2012 4:25:00 PM
-Chloro-3-methylphenol	ND	5.0	μg/L	1	7/30/2012 4:25:00 PM
-Chloroaniline	ND	5.0	μg/L	4	7/30/2012 4:25:00 PM
Chlorophenyl phenyl ether	ND	5.0	μg/L	1	7/30/2012 4:25:00 PM
Nitroaniline	ND	10	μg/L	1	7/30/2012 4:25:00 PM
Nitrophenol	ND	10	μg/L	- 1	7/30/2012 4:25:00 PM
cenaphthene	2.3	5.0	J µg/L	1	7/30/2012 4:25:00 PN
cenaphthylene	ND	5.0	μg/L	1	7/30/2012 4:25:00 PM
nthracene	ND	5.0	μg/L	î	7/30/2012 4:25:00 PN
enz(a)anthracene	ND	5.0	μg/L	1	7/30/2012 4:25:00 PN
enzo(a)pyrene	ND	5.0	µg/L	1	7/30/2012 4:25:00 PM
enzo(b)fluoranthene	ND	5.0	μg/L	1	7/30/2012 4:25:00 PN
enzo(g,h,i)perylene	ND	5.0	μg/L	1	7/30/2012 4:25:00 PM
enzo(k)fluoranthene	ND	5.0	μg/L	1	7/30/2012 4:25:00 PM
s(2-chloroethoxy)methane	ND	5.0	µg/L	1	7/30/2012 4:25:00 PM
s(2-chloroethyl)ether	ND	5.0	μg/L	1	7/30/2012 4:25:00 PM
is(2-chloroisopropyl)ether	ND	5.0	μg/L	1	7/30/2012 4:25:00 PM
is(2-ethylhexyl)phthalate	25	5.0	μg/L	1	7/30/2012 4:25:00 PM

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Ε Value above quantitation range
- Analyte detected below quantitation limits J
- Outlying QC recoveries were associated with this parameter Q

Date: 8-9-/2

Page 6 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT: GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Result

Lab ID:

Analyses

U1207590-002

Date: 09-Aug-12

Client Sample ID: MW-2

Collection Date: 7/24/2012 12:45:00 PM

Matrix: WATER

DF Date Analyzed Limit Qual Units

CL-SEMIVOL ORGANICS BY NYSDEC AS					70_ASPTCL_	
[AqPrep Sep Funnel: ASP BNA by EPA 3510C	Prep Cod ND	e: 3510ASP_ 5.0	RNA	Prep Date: µg/L	7/27/2012 8:10 1	:03 AM Prep by, DMH; 7/30/2012 4:25:00 PM
Butyl benzyl phthalate	ND	5.0 5.0		μg/L	3	7/30/2012 4:25:00 PM
Carbazole	ND	5.0		µg/L	-	7/30/2012 4:25:00 PM
Chrysene	•		J		4	7/30/2012 4:25:00 PM
Di-n-butyl phthalate	1.2	5.0	J	μg/L ··"	4	7/30/2012 4:25:00 PM
Pi-n-octyl phthalate	ND	5.0		μg/L ···="	4	7/30/2012 4:25:00 PM
Dibenz(a,h)anthracene	ND	5.0		μg/L	1	7/30/2012 4:25:00 PM
Pibenzofuran	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
lethyl phthalate	ND	5.0		μg/L "	4	7/30/2012 4:25:00 PM
imethyl phthalate	ND	5.0		μg/L	1.0	***************************************
luoranthene	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
luorene	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
exachiorobenzene	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
exachlorobutadiene	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
exachlorocyclopentadiene	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
exachloroethane	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
deno(1,2,3-cd)pyrene	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
ophorone	ND	5.0		μg/L	1	7/30/2012 4:25:00 PM
-Nitrosodi-n-propylamine	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
-Nitrosodiphenylamine	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
aphthalene	ND	5.0		µg/L	1	7/30/2012 4:25:00 PM
itrobenzene	ND	5.0		μg/L	1	7/30/2012 4:25:00 PM
entachlorophenol	ND	10		μg/L	1	7/30/2012 4:25:00 PN
henanthrene	ND	5.0		µg/L	1	7/30/2012 4:25:00 PN
henol	ND	5.0		μg/L	1	7/30/2012 4:25:00 PM
yrene	1.1	5.0	J	µg/L	1	7/30/2012 4:25:00 PM
TIC: 13-Docosenamide, (Z)-	71	0	В	μg/L	1	7/30/2012 4:25:00 PM
TIC: 1H-Benzimidazole, 2-(1- ethylethyl	56	0		µg/L	1	7/30/2012 4:25:00 PM
TIC: Benzo[b]thiophene, 2,3- hydro-	56	0		μg/L	1	7/30/2012 4:25:00 PM
TIC: Dodecanoic acid	3.4	0		μg/L	1	7/30/2012 4:25:00 PN
TIC: Naphthalene, 1,3-dimethyl-	3.5	0		μg/L	1	7/30/2012 4:25:00 PN
TIC; Naphthalene, 2,3-dimethyl-	2.6	0		μg/L	1	7/30/2012 4:25:00 PM
TIC: Tridecane, 1-lodo-	2.1	0		μg/L	1	7/30/2012 4:25:00 PN
TiC: unknown (11.672)	3.0	0		μg/L	1	7/30/2012 4:25:00 PN
TIC: unknown (15.209)	13	0		μg/L	1	7/30/2012 4:25:00 PN
TIC: unknown (8.43)	20	0		μg/L	1	7/30/2012 4:25:00 PM

Approved	By: /	رب	4
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Qualifiers:

Accreditation not offered by NYS DOH for this parameter

- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits
- Outlying QC recoveries were associated with this parameter Q

Date:

Page 7 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-002

Date: 09-Aug-12

Client Sample ID: MW-2

Collection Date: 7/24/2012 12:45:00 PM

Matrix: WATER

Analyses	Result	Limit	Qual 1	Units	DF	Date Analyzed
					п	
TCL-SEMIVOL ORGANICS BY NYSDEC	ASP 2005			Code: 82	70_ASPTCL_W	Analyst: LD
[AqPrep Sep Funnel: ASP BNA by EPA 35	10C Prep Code	в: 3510ASP_	_	•	7/27/2012 8:10:03	
TIC: unknown (8.553)	18	0	,	ıg/L	1	7/30/2012 4:25:00 PM
TIC: unknown (8.585)	12	0		ug/L	1	7/30/2012 4:25:00 PM
TIC: unknown (8.622)	22	0		ıg/L	1	7/30/2012 4:25:00 PM
TIC: unknown (8.654)	29	0	•	ug/L	1	7/30/2012 4:25:00 PM
TIC: unknown (8.729)	30	0	•	Jg/L	1	7/30/2012 4:25:00 PM
TIC: unknown (8.766)	22	0	•	ıg/L	1	7/30/2012 4:25:00 PM
TIC: unknown (8.953)	61	0	ŀ	ıg/L	1	7/30/2012 4:25:00 PM
TIC: unknown (9.012)	22	0	ŀ	ıg/L	1	7/30/2012 4:25:00 PM
ASP/CLP VOLATILES: WATER BY MET	HOD 5030/826	30B	Lab	Code: 82	60ASP_TCL_W	Analyst: EMZ
1.1.1-Trichloroethane	ND	5.0	ŀ	ıg/L	1	8/2/2012 8:27:00 PM
1.1,2,2-Tetrachloroethane	ND	5.0	į	ıg/L	1	8/2/2012 8:27:00 PM
1,1,2-Trichloroethane	ND	5.0	į	ıg/L	1	8/2/2012 8:27:00 PM
1,1-Dichioroethane	ND	5.0		ıg/L	11	8/2/2012 8:27:00 PM
1,1-Dichloroethene	ND	5.0	Ļ	ıg/L	1	B/2/2012 8:27:00 PM
1.2-Dichloroethane	ND	5.0	ì	ıg/L	1	8/2/2012 8:27:00 PM
1.2-Dichloropropane	ND	5.0	L	ıg/L	1	8/2/2012 8:27:00 PM
2-Butanone	ND	10		ıg/L	1	8/2/2012 8:27:00 PM
2-Hexanone	ND	10		ıg/L	1	8/2/2012 8:27:00 PM
4-Methyl-2-pentanone	ND	10		ig/L	1	8/2/2012 8:27:00 PM
Acetone	ND	10		ıg/L	1	8/2/2012 8:27:00 PM
Benzene	2.9	5.0	_	ıg/L	1	8/2/2012 8:27:00 PM
Bromodichioromethane	ND	5.0	•	ıg/L	1	8/2/2012 8:27:00 PM
Bromoform	ND	5.0	-	ıg/L	1	B/2/2012 8:27:00 PM
Bromomethane	ND	5.0	-	ıg/L	1	8/2/2012 8:27:00 PM
Carbon disulfide	ND	5.0		ıg/L	35	8/2/2012 8:27:00 PM
Carbon tetrachloride	ND	5.0	-	ıg/L	1	8/2/2012 8:27:00 PM
Chlorobenzene	ND	5.0		ıg/L	1	8/2/2012 8:27:00 PM
Chloroethane	ND	5.0	•	ıg/L	1	8/2/2012 8:27:00 PM
	ND	5.0	•	ıg/L	1	8/2/2012 8:27:00 PM
Chloroform	ND	5.0		ıg/L	1	8/2/2012 8:27:00 PM
Chloromethane	2.7	5.0	•	ıg/L	1	8/2/2012 8:27:00 PM
cis-1,2-Dichloroethene	ND	5.0		ıg/L	1	8/2/2012 8:27:00 PM
cis-1,3-Dichloropropene		5.0 5.0	-	ıg/L ıg/L	1	8/2/2012 8:27:00 PM
Dibromochioromethane	ND				1	8/2/2012 8:27:00 PM
Ethylbenzene	ND	5.0	μ	ıg/L	ı	WILLVIE U.E.I.OVI III

Approved By:

Qualifiers:

Accreditation not offered by NYS DOH for this parameter

Value exceeds Maximum Contaminant Value

Value above quantitation range E

Analyte detected below quantitation limits

Outlying QC recoveries were associated with this parameter Q

Date:

Page 8 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- Spike Recovery outside accepted recovery limits S

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-002

Date: 09-Aug-12

Client Sample ID: MW-2

Collection Date: 7/24/2012 12:45:00 PM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ASP/CLP VOLATILES: WATER BY	METHOD 5030/82	60B	Lab	Code: 826	0ASP_TCL_W	Analyst: EMZ
m,p-Xylene	ND	5.0		μg/L	1	8/2/2012 8:27:00 PM
Methylene chloride	ND	5.0		μg/L	1	8/2/2012 8:27:00 PM
o-Xylene	ND	5.0		µg/L	1	8/2/2012 8:27:00 PM
Styrene	ND	5.0		μg/L	1	8/2/2012 8:27:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/2/2012 8:27:00 PM
Toluene	ND	5.0		μg/L	1	8/2/2012 8:27:00 PM
trans-1,2-Dichloroethene	ND	5.0		μg/L	1	8/2/2012 8:27:00 PM
trans-1,3-Dichloropropene	ND	5.0		μg/L	1	8/2/2012 8:27:00 PM
Trichloroethene	ND	5.0		μg/L	1	8/2/2012 8:27:00 PM
Vinyl chloride	21	5.0		µg/L	1	8/2/2012 8:27:00 PM
TiC: Benzofuran, 2-methyl-	6.5	0		μg/L	1	8/2/2012 8:27:00 PM

Approved By: /

Qualifiers:

Accreditation not offered by NYS DOH for this parameter

** Value exceeds Maximum Contaminant Value

E Value above quantitation range

J Analyte detected below quantitation limits

Q Outlying QC recoveries were associated with this parameter

Date: 8-9-/2

Page 9 of 34

Low Level

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Spike Recovery outside accepted recovery limits

Analytical	Report				Date:	09-Aug	12
CLIENT:	GHD, Inc.			Client	Sample ID:	MW-5	
Lab Order:	U1207590			Colle	ection Date:	7/24/20	12 10:30:00 AM
Project:	153 Fillmore Ave						
Lab ID:	U1207590-003				Matrix:	WATER	ł
Lab iD;							
Analyses		Result	Limit	Qual Unit	ts	DF	Date Analyzed
							Amalusti I FT
ICP METALS	, TOTAL BY NYSDEC ASP	2005	40D D		e: 200.7WT/		Analyst: LET By: ARO]
	al Metals- EPA 3005A Prep (ode: 200.71PK/ 161	ASP Prep 100	μg/L	12 10:52:38 A	ым ⊢тер	8/3/2012 12:25:26 PM
Aluminum		172	50.0	µg/L		4	8/3/2012 12:25:26 PM
Barlum		ND	3.00	μg/L		4	8/3/2012 12:25:26 PM
Beryllium		ND	5.00	μg/L		1	8/3/2012 12:25:26 PM
Cadmium		140000	5000	μg/L		1	8/3/2012 12:25:26 PM
Calcium		ND	10.0	μg/L		4	8/3/2012 12:25:26 PM
Chromium		ND	20.0	р д . µg/L		1	8/3/2012 12:25:26 PM
Cobalt		ND	10.0	μg/L		4	8/3/2012 12:25:26 PM
Copper		3450	60.0	µg/L		4	8/3/2012 12:25:26 PM
iron		31400	5000	µg/L		1	8/3/2012 12:25:26 PM
Magnesium		225	10.0	µg/∟ µg/∟		3	8/3/2012 12:25:26 PM
Manganese		ND ND	30.0	μg/L		্র	8/3/2012 12:25:26 PM
Nickel		ND ND	5000	μg/L		3	8/3/2012 12:25:26 PM
Potassium		ND ND	10.0	μg/L		4	8/3/2012 12:25:26 PM
Silver			5000	μg/L		3	8/3/2012 12:25:26 PM
Sodium		11000	30.0			100	8/3/2012 12:25:26 PM
Vanadium		ND	*	μg/L		1	8/3/2012 12:25:26 PM
Zinc		165	10.0	μg/L		'	0/0/2012 12:20:20
ASP TOTAL &	METALS BY ICP-MS BY EF	A 200.8			e: 200.8AS P		Analyst: ALW
[AgPrep ASF	P Total Metals: - EPA 3005A	Prep Code: 200.	8TPRASP		7/26/2012 10:5	2:45 AM	Prep By: ARO]
Antimony		ND	25.0	μg/L		5	7/30/2012 3:58:34 PM
Arsenic		ND	25.0	µg/L		5	7/30/2012 3:58:34 PM
Lead		ND	15.0	μg/L		5	7/30/2012 3:58:34 PM
Selenium		46.7	15.0	μg/L		5	7/30/2012 3:58:34 PM
Thallium		ND	15.0	μg/L		5	7/30/2012 3:58:34 PM
NOTES:	limits were raised due to matri	v Interference					
The reporting	IIIIIII WORE INISED DOE TO IIIANI.	A III CON CONTROL					
TOTAL MERC	URY WATERS ASP BY EF	A 245.2		Lab Cod	e: 245.2WT A	SP	Analyst: LET
	ep by 245.2 Prep Code: 245.2		Date: 7/26	/2012 11:22:3	36 AM Prep B	By: ARO]	
Mercury		0.689	0.200	μg/Ĺ		1	8/2/2012 2:24:41 PM
TO! OF 1810	L ORGANICS BY NYSDEC	ASD SOUR		Lab Cod	e: 8270_AS F	TCL W	Analyst: LD
[AqPrep Sep	Funnel: ASP BNA by EPA 351		3510ASP 5.0		Date: 7/27/201		•
(3+4)-Methylpl 1,2,4-Trichloro		ND	5.0	µg/L		1	7/30/2012 5:04:00 PM
	<u> </u>			Date: C	20.12		Page 10 of 3
Approved By		VIVE BOTT 6 4.1		Date: &	Low Level		- 1 450 10 012
	# Accreditation not offered by		s parameter			d in the acc	ociated Method Blank
	** Value exceeds Maximum Co						ion or analysis exceeded
	E Value above quantitation ran						
	J Analyte detected below quan				Not Detected at		
	Q Outlying QC recoveries were	associated with the	his paramete	S	Spike Recovery	outside ac	cepted recovery limits

Analytical Report

CLIENT: GHD, Inc.

U1207590

Project:

Lab Order:

153 Fillmore Ave

Lab ID:

U1207590-003

Result

Date: 09-Aug-12

Client Sample ID: MW-5

Collection Date: 7/24/2012 10:30:00 AM

Matrix: WATER

Analyses	Result	Limit Qual	Units	DF	Date Analyzed
					Analyst ID
TCL-SEMIVOL ORGANICS BY NYSDEC A				'0_ASPTCL_' 7/27/2012 8:10:	
[AqPrep Sep Funnel: ASP BNA by EPA 35100	; Prep Cod ND	e: 3510ASP_BNA 5.0	pg/L	1	7/30/2012 5:04:00 PM
1,2-Dichlorobenzene	ND	5.0	μg/Ĺ	1	7/30/2012 5:04:00 PM
1,3-Dichlorobenzene	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
1,4-Dichlorobenzene	ND	5.0	μg/L	4	7/30/2012 5:04:00 PM
2,4,5-Trichlorophenol	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
2,4,6-Trichlorophenoi	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
2,4-Dichlorophenol	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
2,4-Dimethylphenol	ND	10	μg/L	1	7/30/2012 5:04:00 PM
2,4-Dinitrophenol	ND	5.0	µg/L	1	7/30/2012 5:04:00 PM
2,4-Dinitrotoluene	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
2,6-Dinitrotoluene	ND	5.0	μg/L,	1	7/30/2012 5:04:00 PM
2-Chloronaphthalene	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
2-Chlorophenol	ND	5.0	µg/L	1	7/30/2012 5:04:00 PM
2-Methylnaphthalene	ND	5.0	µg/L	1	7/30/2012 5:04:00 PM
2-Methylphenol	ND	10	μg/L	1	7/30/2012 5:04:00 PM
2-Nitroaniline	ND	5.0	µg/L	1	7/30/2012 5:04:00 PM
2-Nitrophenol	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
3,3'-Dichlorobenzidine	ND	10	μg/L	1	7/30/2012 5:04:00 PM
3-Nitroaniline	ND	10	μg/L	1	7/30/2012 5:04:00 PM
4,6-Dinitro-2-methylphenol	ND	5.0	µg/L	1	7/30/2012 5:04:00 PM
4-Bromophenyl phenyl ether	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
4-Chloro-3-methylphenol		5.0	μg/L	1	7/30/2012 5:04:00 PM
4-Chloroaniline	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
4-Chlorophenyl phenyl ether	ND	10	μg/L	1	7/30/2012 5:04:00 PM
4-Nitroaniline	ND	10	µg/L µg/L	1	7/30/2012 5:04:00 PM
4-Nitrophenol	ND			1	7/30/2012 5:04:00 PM
Acenaphthene	1.5	6570	μg/L	1	7/30/2012 5:04:00 PM
Acenaphthylene	ND	5.0	µg/L	1	7/30/2012 5:04:00 PM
Anthracene	ND	5.0	µg/L	1	7/30/2012 5:04:00 PM
Benz(a)anthracene	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
Benzo(a)pyrene	ND	5.0	µg/L	1	7/30/2012 5:04:00 PM
Benzo(b)fluoranthene	ND	5.0	μg/L "	•	7/30/2012 5:04:00 PM
Benzo(g,h,i)perylene	ND	5.0	μg/L "	1	7/30/2012 5:04:00 PM
Benzo(k)fluoranthene	ND	5.0	μg/L 	1	
Bis(2-chloroethoxy)methane	ND	5.0	µg/L	S16	7/30/2012 5:04:00 PM
Bis(2-chloroethyl)ether	ND	5.0	µg/L	14	7/30/2012 5:04:00 PM
Bis(2-chioroisopropyl)ether	ND	5.0	μg/L	1	7/30/2012 5:04:00 PM
Bis(2-ethylhexyi)phthalate	ND	5.0	µg/L	1	7/30/2012 5:04:00 PM

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits J
- Outlying QC recoveries were associated with this parameter

Date:

Page 11 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

Analyses

U1207590-003

Result

Client Sample ID: MW-5

Limit Qual Units

Collection Date: 7/24/2012 10:30:00 AM

Date Analyzed

Matrix: WATER

DF

Date: 09-Aug-12

[AgPrep Sep Funnel: ASP BNA by EPA 3510C	SP 2005			b Code: 82		
		: 3510ASP_	BNA		7/27/2012 8:10:0	3 AM Prep By: DMH] 7/30/2012 5:04:00 Pl
Butyl benzyl phthalate	ND	5.0		μg/L "	3	7/30/2012 5:04:00 PI
Carbazole	3.2	5.0	J	μg/L "	1.5	7/30/2012 5:04:00 PI
Chrysene	ND	5.0		μg/L 	1	
i-n-butyl phthalate	ND	5.0		μg/L 	1	7/30/2012 5:04:00 PI
i-n-octyl phthalate	ND	5.0		μg/L	1	7/30/2012 5:04:00 PI
lbenz(a,h)anthracene	ND	5.0		μg/L	1	7/30/2012 5:04:00 PI
Dibenzofuran	ND	5.0		μg/L	1	7/30/2012 5:04:00 PI
ethyl phthalate	ND	5.0		µg/L	1	7/30/2012 5:04:00 PI
imethyl phthalate	ND	5.0		μg/L	1	7/30/2012 5:04:00 PI
iuoranthene	ND	5.0		μg/L	1	7/30/2012 5:04:00 PI
luorene	1.2	5.0	J	μg/L	1	7/30/2012 5:04:00 PI
lexachlorobenzene	ND	5.0		μg/L	1	7/30/2012 5:04:00 P
lexachiorobutadiene	ND	5.0		µg/L	1	7/30/2012 5:04:00 P
lexachlorocyclopentadiene	ND	5.0		μg/L	1	7/30/2012 5:04:00 P
exachloroethane	ND	5.0		µg/L	1	7/30/2012 5:04:00 P
ndeno(1,2,3-cd)pyrene	ND	5.0		μg/L	1	7/30/2012 5:04:00 P
sophorone	ND	5.0		µg/L	1	7/30/2012 5:04:00 P
-Nitrosodi-n-propytamine	ND	5.0		μg/L	1	7/30/2012 5:04:00 P
-Nitrosodiphenylamine	ND	5.0		μg/L	1	7/30/2012 5:04:00 P
aphthalene	ND	5.0		μg/L	1	7/30/2012 5:04:00 PI
itrobenzene	ND	5.0		μg/L	1	7/30/2012 5:04:00 PI
entachlorophenol	ND	10		μg/L	1	7/30/2012 5:04:00 PI
henanthrene	ND	5.0		μg/L	1	7/30/2012 5:04:00 PI
henoi	ND	5.0		μg/L	1	7/30/2012 5:04:00 PI
yrene	ND	5.0		μg/L	1	7/30/2012 5:04:00 PI
TIC: 13-Docosenamide, (Z)-	20	0	В	μg/L	1	7/30/2012 5:04:00 PI
TIC: 2,3-Dihydro-1-oxo-1H-	3.9	0		µg/L		7/30/2012 5:04:00 PI
TIC: 9-Octadecenamide, (Z)-	5.1	0	В	μ g/ L	1	7/30/2012 5:04:00 Pt
TIC: Bacchotricuneatin c	4.1	0		μg/L	1	7/30/2012 5:04:00 PI
TIC: Benzene, 2-ethenyl-1,4- methyl-	7.5	0		µg/L	ă.	7/30/2012 5:04:00 Pi
TIC: Benzo[b]thiophene, 2,3-	190	0		µg/L	1	7/30/2012 5:04:00 PI
hydro-	170	0		μg/L	1	7/30/2012 5:04:00 PI
TIC: Benzo[b]thiophene, 5-methyl-		0			1	7/30/2012 5:04:00 PI
TIC: Naphthalene, 1,4-dimethyl-	3.2	=		µg/L	,	7/30/2012 5:04:00 PI
TIC: Naphthalene, 1-methyl- TIC: Naphthalene, 2,3-dimethyl-	490 4.7	0		µg/L µg/L		7/30/2012 5:04:00 PM

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- Analyte detected below quantitation limits
- Outlying QC recoveries were associated with this parameter Q

Date:

Page 12 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Spike Recovery outside accepted recovery limits S

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-003

Date: 09-Aug-12

Client Sample ID: MW-5

nem Bampie 15. 11. 1

Collection Date: 7/24/2012 10:30:00 AM

Matrix: WATER

Lab ID: U120/590-003	AVANISA A								
Analyses	Result	Limit Qua	Units	DF	Date Analyzed				
TCL-SEMIVOL ORGANICS BY NYSDEC				0_ASPTCL_W	Analyst: LD				
[AqPrep Sep Funnel: ASP BNA by EPA 35	•	e: 3510ASP_BNA	•	/27/2012 8:10:03	3 AM Prep By: DMH] 7/30/2012 5:04:00 PM				
TIC: Pentadecane, 2,6,10,14-	8.2	0	µg/L	₹"	[130/2012 0.04.001 M				
tetramethyl TIC: Tridecane	4.7	0	μg/L	.1	7/30/2012 5:04:00 PM				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20	ō	μg/L	1	7/30/2012 5:04:00 PM				
TIC: unknown (8.449) TIC: unknown (8.614)	33	Ō	μg/L	1	7/30/2012 5:04:00 PM				
TIC: unknown (8.652)	25	0	μg/L	11	7/30/2012 5:04:00 PM				
TiC: unknown (8.684)	19	Ö	μg/L	1	7/30/2012 5:04:00 PM				
TIC: unknown (8.839)	25	0	μg/L	3	7/30/2012 5:04:00 PM				
TIC: unknown (9.015)	12	0	μg/L	1	7/30/2012 5:04:00 PM				
TIC: unknown (9.202)	3.6	0	μg/L	3	7/30/2012 5:04:00 PM				
TIC: unknown (9.629)	3.1	0	μg/L	1	7/30/2012 5:04:00 PM				
, , , , , , , , , , , , , , , , , , , ,									
ASP/CLP VOLATILES: WATER BY MET	HOD 5030/82	60B La	ab Code: 826	DASP_TCL_W	Analyst: EMZ				
1.1.1-Trichloroethane	ND	5.0	μg/L	1	8/2/2012 9:13:00 PM				
1,1,2,2-Tetrachloroethane	ND	5.0	μg/L	1	8/2/2012 9:13:00 PM				
1,1,2-Trichloroethane	ND	5.0	µg/L	1	8/2/2012 9:13:00 PM				
1,1-Dichloroethane	ND	5.0	µg/L	3	8/2/2012 9:13:00 PM				
1,1-Dichloroethene	ND	5.0	µg/L	1	8/2/2012 9:13:00 PM				
1,2-Dichloroethane	ND	5.0	µg/L	1	8/2/2012 9:13:00 PM				
1,2-Dichloropropane	ND	5.0	μg/L	1	8/2/2012 9:13:00 PM				
2-Butanone	ND	10	μg/L	1	8/2/2012 9:13:00 PM				
2-Hexanone	ND	10	μg/L	1	8/2/2012 9:13:00 PM				
4-Methyl-2-pentanone	ND	10	μg/L	1	8/2/2012 9:13:00 PM				
Acetone	ND	10	μg/L	1	8/2/2012 9:13:00 PM				
Benzene	ND	5.0	µg/L	1	8/2/2012 9:13:00 PM				
Bromodichioromethane	ND	5.0	μg/L	1	8/2/2012 9:13:00 PM				
Bromoform	ND	5.0	µg/L	1	8/2/2012 9:13:00 PM				
Bromomethane	ND	5.0	μg/L	31	8/2/2012 9:13:00 PM				
Carbon disulfide	ND	5.0	μg/L	1	8/2/2012 9:13:00 PM				
Carbon tetrachloride	ND	5.0	μg/L	1	8/2/2012 9:13:00 PM				
Chlorobenzene	ND	5.0	μg/L	1	8/2/2012 9:13:00 PM				
Chloroethane	ND	5.0	µg/L	1	8/2/2012 9:13:00 PM				
Chloroform	ND	5.0	µg/L	1	8/2/2012 9:13:00 PM				
Chloromethane	ND	5.0	μg/L	1	8/2/2012 9:13:00 PM				
	ND	5.0	μg/L	1	8/2/2012 9:13:00 PM				
cis-1,2-Dichloroethene	שא	0.0	P9'-						

Approved By: D/-/

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- ** Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

Date: 8-9-/2

Page 13 of 34

- Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-003

Date: 09-Aug-12

Client Sample ID: MW-5

Collection Date: 7/24/2012 10:30:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ASP/CLP VOLATILES: WATER BY	Y METHOD 5030/826	0B	Lal	o Code: 82 6	0ASP_TCL_W	Analyst: EMZ
Dibromochloromethane	ND	5.0		μg/L	1	8/2/2012 9:13:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/2/2012 9:13:00 PM
m,p-Xylene	ND	5.0		μg/L	1	8/2/2012 9:13:00 PM
Methylene chioride	ND	5.0		μg/L	1	8/2/2012 9:13:00 PM
p-Xylene	ND	5.0		μg/L	1	8/2/2012 9:13:00 PM
· ·	ND	5.0		μg/L	1	8/2/2012 9:13:00 PM
Styrene Tetrachioroethene	ND	5.0		μg/L	1	8/2/2012 9:13:00 PM
Toluene	ND	5.0		μg/L	1	8/2/2012 9:13:00 PM
	ND	5.0		μg/L	1	8/2/2012 9:13:00 PM
trans-1,2-Dichloroethene	ND	5.0		μg/L	1	8/2/2012 9:13:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/2/2012 9:13:00 PM
Trichloroethene	ND	5.0		μg/L	1	8/2/2012 9:13:00 PM
Vinyl chloride	7.0	0.0	JN	μg/L	1	8/2/2012 9:13:00 PM
TIC: Benzene, 2-butenyl- TIC: Indane	11	0	JN	µg/L	1	8/2/2012 9:13:00 PM

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Outlying QC recoveries were associated with this parameter

Date:

Page 14 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
 - Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:	GHD, Inc.			Client S	ample ID: MW-6	
	U1207590				tion Date: 7/24/20	012 10:00:00 AM
Lab Order:				Обще		
Project:	153 Fillmore Ave				Beating WATE	סדי
Lab ID:	U1207590-004			<u>. </u>	Matrix: WATE	
Analyses		Result	Limit (Qual Units	DF	Date Analyzed
CP METALS	S, TOTAL BY NYSDEC ASP	2005			: 200.7WTASP	Analyst: LET
	otal Metals- EPA 3005A Prep (Code: 200.7TPR	ASP Prep D 100		2 10:52:38 AM Prep 1	8/3/2012 12:32:44 PM
Aluminum		ND	50.0	μg/L	4	8/3/2012 12:32:44 PM
Barium		207		μg/L /ι	4	8/3/2012 12:32:44 PM
Beryllium		ND	3.00	μg/L	1	8/3/2012 12:32:44 PM
Cadmium		ND	5.00	μ g/L		8/3/2012 12:32:44 PM
Calcium		149000	5000	μg/L	1	8/3/2012 12:32:44 PM
Chromium		ND	10.0	µg/L ∷	1	8/3/2012 12:32:44 PM
Cobalt		ND	20.0	µg/L	1	B/3/2012 12:32:44 PM
Copper		ND	10.0	µg/L	1	•,•,•,•
Iron		6220	60.0	μg/L	1	8/3/2012 12:32:44 PM
Magnesium		29100	5000	µg/L	1	8/3/2012 12:32:44 PM
Manganese		1080	10.0	µg/L	1	8/3/2012 12:32:44 PM
Nickel		ND	30.0	μg/L	1	8/3/2012 12:32:44 PM
Potassium		ND	5000	μg/L	1	8/3/2012 12:32:44 PM
Silver		ND	10.0	μg/L	1	8/3/2012 12:32:44 PM
Sodium		14700	5000	μg/L	1	8/3/2012 12:32:44 PM
Vanadium		ND	30.0	μg/L	1	B/3/2012 12:32:44 PM
Zinc		18.7	10.0	μg/L	1	8/3/2012 12:32:44 PM
				1.1.0-4-		Analyst: ALW
SP TOTAL	METALS BY ICP-MS BY E	PA 200.8			: 200.8ASP	•
	SP Total Metals: - EPA 3005A	Prep Code: 200.	-		26/2012 10:52:45 AM 5	7/30/2012 3:58:34 PM
Antimony		ND	25.0	μg/L	5	7/30/2012 3:58:34 PM
Arsenic		ND	25.0	µg/L	5	7/30/2012 3:58:34 PM
Lead		ND	15.0	µg/L		7/30/2012 3:58:34 PM
Selenium		ND	15.0	μg/L	5	
Thallium		ND	15.0	µg/L	5	7/30/2012 3:58:34 PM
NOTES: The reporting	g limits were raised due to matri	x Interference.				
						Anglyst LET
OTAL MER	CURY WATERS ASP BY EI	PA 245.2			245.2WTASP	Analyst: LET
[Hg Total P Mercury	rep by 245.2 Prep Code: 245.2	2TPRASP Prep ND	0.200	2012 11:22:36 µg/L	AM Prep By: AROJ	8/2/2012 2:26:41 PM
AL ATT.	N OBCANICE BY NVEREC	ACD 2005		Lab Code	8270_ASPTCL_W	/ Analyst: LD
[AqPrep Se	DL ORGANICS BY NYSDEC p Funnel: ASP BNA by EPA 35	10C Prep Code	: 3510ASP_I		ate: 7/27/2012 8:10:0	-
(3+4)-Methyl		ND ND	5.0 5.0	րց/L	1	7/30/2012 5:44:00 PM
				Date: S	20.12	Page 15 of 3
Approved E		NIVE DOUG-			ow Level	
Qualifiers:	# Accreditation not offered by		Pharamicics			sociated Method Blank
	** Value exceeds Maximum Co					tion or analysis exceeded
	E Value above quantitation rar				of Detected at the Repo	
	J Analyte detected below quar				or Detected at the Repo. pike Recovery outside a	
	Q Outlying QC recoveries were	associated with the	us parameter	S S	pike Recovery outside a	coepied focovery mints

Date: 09-Aug-12

Analytical Report

GHD, Inc. CLIENT:

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-004

Date: 09-Aug-12

Client Sample ID: MW-6

Collection Date: 7/24/2012 10:00:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
				-		
TCL-SEMIVOL ORGANICS BY NYSDEC AS	SP 2005				70_ASPTCL_W	
[AqPrep Sep Funnel: ASP BNA by EPA 35100	Prep Cod	e: 3510ASP	_BNA	•	7/27/2012 8:10:03	AM Prep By: DMH]
1,2-Dichlorobenzene	ND	5.0		µg/L	030	7/30/2012 5:44:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	7/30/2012 5:44:00 PM
1,4-Dichiorobenzene	ND	5.0		µg/L	1	7/30/2012 5:44:00 PM
2,4,5-Trichlorophenol	ND	5.0		µg/L	1	7/30/2012 5:44:00 PM
2,4,6-Trichlorophenol	ND	5.0		µg/L	1	7/30/2012 5:44:00 PM
2,4-Dichlorophenol	ND	5.0		µg/L	1	7/30/2012 5:44:00 PM
2,4-Dimethylphenol	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
2,4-Dinitrophenol	ND	10		µg/L	1	7/30/2012 5:44:00 PM
2,4-Dinitrotoluene	ND	5.0		µg/L	1	7/30/2012 5:44:00 PM
2,6-Dinitrotoluene	ND	5.0		µg/L	1	7/30/2012 5:44:00 PM
2-Chloronaphthalene	ND	5.0		µg/L	1	7/30/2012 5:44:00 PM
2-Chiorophenoi	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
2-Methylnaphthalene	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
2-Methylphenol	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
2-Nitroaniline	ND	10		μg/L	1	7/30/2012 5:44:00 PM
2-Nitrophenol	ND	5.0		μg/L		7/30/2012 5:44:00 PM
3.3'-Dichlorobenzidine	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
3-Nitroanlline	ND	10		µg/L	1	7/30/2012 5:44:00 PM
4,6-Dinitro-2-methylphenol	ND	10		μg/L	1	7/30/2012 5:44:00 PM
4-Bromophenyl phenyl ether	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
4-Chioro-3-methylphenol	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
4-Chloroaniline	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
4-Chlorophenyl phenyl ether	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
4-Nitroaniline	ND	10		μg/L	1	7/30/2012 5:44:00 PM
4-Nitrophenol	ND	10		μg/L	1	7/30/2012 5:44:00 PM
•	3.4	5.0	J	μg/L	1	7/30/2012 5:44:00 PM
Accepatitudes	ND	5.0	_	μg/L	3	7/30/2012 5:44:00 PM
Acenaphthylene	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
Anthracene	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
Benz(a)anthracene	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
Benzo(a)pyrene	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
Benzo(b)fluoranthene		5.0 5.0		h8/r	1	7/30/2012 5:44:00 PM
Benzo(g,h,i)perylene	ND ND				1	7/30/2012 5:44:00 PM
Benzo(k)fluoranthene	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
Bis(2-chloroethoxy)methane	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
Bis(2-chloroethyl)ether	ND	5.0		μg/L	1	7/30/2012 5:44:00 PM
Bis(2-chloroisopropyl)ether	ND	5.0		µg/L	•	7/30/2012 5:44:00 PM
Bis(2-ethylhexy!)phthalate	ND	5.0		μg/L	1	7130/2012 0.44.00 FIVI

Approved By:

Accreditation not offered by NYS DOH for this parameter Qualifiers:

- Value exceeds Maximum Contaminant Value
- Value above quantitation range Ε
- Analyte detected below quantitation limits J
- Outlying QC recoveries were associated with this parameter Q

Date:

Page 16 of 34

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
 - Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT: GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

Analyses

U1207590-004

Result

Client Sample ID: MW-6

Limit Qual Units

Collection Date: 7/24/2012 10:00:00 AM

Date: 09-Aug-12

Matrix: WATER

DF

Date Analyzed

Analyst: LD Lab Code: 8270 ASPTCL_W TCL-SEMIVOL ORGANICS BY NYSDEC ASP 2005 Prep Date: 7/27/2012 8:10:03 AM Prep By: DMH] Prep Code: 3510ASP_BNA [AqPrep Sep Funnel: ASP BNA by EPA 3510C μg/Ĺ 7/30/2012 5:44:00 PM 5.0 ND Butyl benzyl phthalate 7/30/2012 5:44:00 PM 1 5.0 µg/L ND Carbazole 7/30/2012 5:44:00 PM 1 5.0 µg/L ND Chrysene 7/30/2012 5:44:00 PM 1 ND 5.0 μg/L Di-n-butyl phthaiate 7/30/2012 5:44:00 PM µg/L 1 ND 5.0 Di-n-octyl phthalate 1 7/30/2012 5:44:00 PM 5.0 µg/L ND Dibenz(a.h)anthracene 1 7/30/2012 5:44:00 PM ND 5.0 µg/L Dibenzofuran 7/30/2012 5:44:00 PM 1 5.0 μg/L ND Diethyl phthalate 7/30/2012 5:44:00 PM 1 5.0 μg/L ND Dimethyl phthalate 7/30/2012 5:44:00 PM µg/L 1 ND 5.0 Fluoranthene 1 7/30/2012 5:44:00 PM 5.0 µg/L ND Fluorene 7/30/2012 5:44:00 PM 5.0 μg/L ND Hexachlorobenzene 7/30/2012 5:44:00 PM 1 μg/L ND 5.0 Hexachlorobutadiene μg/L 1 7/30/2012 5:44:00 PM 5.0 ND Hexachlorocyclopentadiene 7/30/2012 5:44:00 PM μg/L 1 ND 5.0 Hexachloroethane 1 7/30/2012 5:44:00 PM 5.0 µg/L ND Indeno(1,2,3-cd)pyrene 7/30/2012 5:44:00 PM 1 5.0 μg/L ND Isophorone 7/30/2012 5:44:00 PM μg/L ND 5.0 N-Nitrosodi-n-propylamine 7/30/2012 5:44:00 PM 1 ND 5.0 µg/L N-Nitrosodiphenylamine 7/30/2012 5:44:00 PM 1 5.0 µg/L ND Naphthalene 7/30/2012 5:44:00 PM 1 5.0 µg/L ND Nitrobenzene 1 7/30/2012 5:44:00 PM 10 µg/L ND Pentachiorophenol 1 7/30/2012 5:44:00 PM 5.0 μg/L ND Phenanthrene 7/30/2012 5:44:00 PM 1 ND 5.0 µg/L Phenol 7/30/2012 5:44:00 PM 5.0 μg/L ND Pyrene 7/30/2012 5:44:00 PM 1 µg/L 2.9 0 TiC: .alpha.,.beta.,.beta.-Trimethylsty 7/30/2012 5:44:00 PM 1 μg/L 5.3 0 TIC: 1,1'-Biphenyl, 2-methyl-7/30/2012 5:44:00 PM 0 В μg/L TIC: 13-Docosenamide, (Z)-25 1 7/30/2012 5:44:00 PM 0 µg/L 5.1 TIC: 1H-Inden-1-one, 2,3-dihydro-5,7-di 7/30/2012 5:44:00 PM μg/L 2.6 0 TIC: 1H-Indene, 1,3-dimethyl-7/30/2012 5:44:00 PM 1 ۵ μg/L 6.2 TIC: 2,6,10-Dodecatrien-1-ol, 3,7,11-tr 7/30/2012 5:44:00 PM 1 0 μg/L TIC: 9-Octadecenamide, (Z)-5.0 7/30/2012 5:44:00 PM µg/L 2.3 0 TIC: 9H-Carbazole, 2-methyl-7/30/2012 5:44:00 PM µg/L 1 0

TIC: Benzene, pentamethyl-

Qualifiers:

Accreditation not offered by NYS DOH for this parameter

6.8

- Value exceeds Maximum Contaminant Value **
- E Value above quantitation range
- Analyte detected below quantitation limits 3
- Outlying QC recoveries were associated with this parameter Q

Date:

Page 17 of 34

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Spike Recovery outside accepted recovery limits S

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-004

Date: 09-Aug-12

DF

Client Sample ID: MW-6

Collection Date: 7/24/2012 10:00:00 AM

Date Analyzed

Matrix: WATER

Analyses	Result	Limit (Qual Units	DF	Date Analyzed
TCL-SEMIVOL ORGANICS BY NYSDEC AS				270_ASPTCL_W	
[AqPrep Sep Funnel: ASP BNA by EPA 3510C	Prep Code	e: 3510ASP_I		a: 7/27/2012 8:10:03	
TIC: Benzo[b]thiophene, 2,3-	20	0	μg/L	1	7/30/2012 5:44:00 PM
dihydro-		_	0	4	7/30/2012 5:44:00 PM
TiC: Naphthalene, 1,3-dimethyl-	6.6	0	μg/L	1	
TiC: Naphthalene, 2,3-dimethyl-	3.6	0	µg/L	1	7/30/2012 5:44:00 PM
TIC: unknown (11.077)	3.4	0	μg/L	1	7/30/2012 5:44:00 PM
TIC: unknown (8.556)	2.4	0	µg/L	1	7/30/2012 5:44:00 PM
TIC: unknown (8.839)	2.7	0	μg/L	1	7/30/2012 5:44:00 PM
TIC: unknown (8.951)	6.2	0	μg/L	1	7/30/2012 5:44:00 PM
• •	2.7	0	μg/L	4	7/30/2012 5:44:00 PM
TiC: unknown (9.01)		0	μg/L	4	7/30/2012 5:44:00 PM
TiC: unknown (9.48)	2.6	_	. •	8	7/30/2012 5:44:00 PM
TIC: unknown (9.613)	2.3	0	μg/L	<u> </u>	
TIC: unknown (9.763)	3.1	0	µg/L	1	7/30/2012 5:44:00 PM

Limit Qual Units

ASP/CLP VOLATILES: WATER BY M	ETHOD 5030/8260	В	Lab Code: 826	OASP_TCL_W	Analyst: EMZ
1,1,1-Trichloroethane	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
1,1,2-Trichloroethane	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
1.1-Dichloroethane	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	1	8/2/2012 9:59:00 PM
1,2-Dichloroethane	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
1,2-Dichloropropane	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
2-Butanone	ND	10	μg/L	1	8/2/2012 9:59:00 PM
2-Hexanone	ND	10	μg/L	1	8/2/2012 9:59:00 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	8/2/2012 9:59:00 PM
Acetone	ND	10	μg/L	1	8/2/2012 9:59:00 PM
Benzene	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
Bromodichloromethane	ND	5.0	µg/L	1	8/2/2012 9:59:00 PM
Bromoform	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
Bromomethane	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
Carbon disulfide	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
Carbon tetrachloride	ND	5.0	µg/L	1	8/2/2012 9:59:00 PM
Chlorobenzene	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
Chloroethane	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
Chloroform	ND	5.0	µg/L	1	8/2/2012 9:59:00 PM
Chloromethane	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
cis-1,2-Dichloroethene	ND	5.0	µg/L	1	8/2/2012 9:59:00 PM

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits J
- Outlying QC recoveries were associated with this parameter Q

Date:

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- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Spike Recovery outside accepted recovery limits S

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-004

Date: 09-Aug-12

Client Sample ID: MW-6

Collection Date: 7/24/2012 10:00:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
ASP/CLP VOLATILES: WATER B	SY METHOD 5030/826	30B	Lab Code: 826	0ASP_TCL_W	/ Analyst: EM2
cis-1,3-Dichloropropene	ND	5.0	μg/L	31	8/2/2012 9:59:00 PM
Dibromochioromethane	ND	5.0	μg/L	(3)	8/2/2012 9:59:00 PM
Ethylbenzene	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
m,p-Xylene	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
Methylene chloride	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
-	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
o-Xylene	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
Styrene Tetrachloroethene	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
• •	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
Toluene	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
trans-1,2-Dichloroethene	ND	5.0	μg/L	1	8/2/2012 9:59:00 PM
trans-1,3-Dichloropropene	ND	5.0	μg/L	3	8/2/2012 9:59:00 PM
Trichloroethene Vinyl chloride	ND	5.0	μg/L	4	8/2/2012 9:59:00 PM
NOTES:					

TICS: No compounds were detected.

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits
- Outlying QC recoveries were associated with this parameter

Date:

Page 19 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Spike Recovery outside accepted recovery limits

Analytical F	Report				Date:	09-Aug	:-12
CLIENT:	GHD, Inc.			Clien	t Sample ID:	MW-7	
Lab Order:	U1207590			Col	lection Date:	7/24/20)12 11:30:00 AM
Project:	153 Fillmore Ave	:					
Lab ID:	U1207590-005				Matrix:	WATE	R
Analyses		Result	Limit	Qual Un	its	DF	Date Analyzed
		· · · · · · · · · · · · · · · · · · ·					
ICP METALS, 1	TOTAL BY NYSDEC	ASP 2005			de: 200.7WT/		Analyst: LET
(AqPrep Total	Metals- EPA 3005A F	Prep Code: 200.7TPRASE			2012 10:52:38 A		By: ARO]
Aluminum		4970	100	h8/r		1	8/3/2012 12:40:13 PM
Barium		102	50.0	μg/l		1	8/3/2012 12:40:13 PM
Beryllium		ND	3.00	μg/L		8	8/3/2012 12:40:13 PM
Cadmium		50.3	5.00	µg/l			8/3/2012 12:40:13 PM
Calcium		149000	5000	µg/L		3	8/3/2012 12:40:13 PM
Chromium		10.9	10.0	µg/l		3	8/3/2012 12:40:13 PM
Cobalt		ND	20.0	µg/t		1	8/3/2012 12:40:13 PM
Copper		250	10.0	µg/L		1	8/3/2012 12:40:13 PM
Iron		13500	60.0	µg/L		1	8/3/2012 12:40:13 PM
Magnesium		30700	5000	μg/L		1	8/3/2012 12:40:13 PM
Manganese		849	10.0	h ā /f		1	8/3/2012 12:40:13 PM
Nickel		32.7	30.0	μg/L	-	1	8/3/2012 12:40:13 PM
Potassium		11100	5000	μg/L	-	1	8/3/2012 12:40:13 PM
Silver		ND	10.0	μg/L		1	8/3/2012 12:40:13 PM
Sodium		58600	5000	μg/L		1	8/3/2012 12:40:13 PM
Vanadium		ND	30.0	μg/L		1	8/3/2012 12:40:13 PM
Zinc		7080	10.0	μg/L		1	8/3/2012 12:40:13 PM
		V ED A 200 9		Lab Cov	de: 200.8ASP	,	Analyst: ALW
	TALS BY ICP-MS B		PASP		7/26/2012 10:5		Prep By: ARO]
Antimony	lotal Metals: - EPA 300	5A Prep Code: 200.8TF 35.5	25.0	µg/L		5	7/30/2012 3:58:34 PM
Arsenic		115	25.0	μg/L		5	7/30/2012 3:58:34 PM
		329	30.0	µg/L		10	8/1/2012 9:47:00 AM
Lead		119	15.0	μg/L		5	7/30/2012 3:58:34 PM
Selenium Thallium		92.1	15.0	ha\r		5	7/30/2012 3:58:34 PM
Hamaiir		<u></u>		, 5			
OTAL MERCU	RY WATERS ASP B	Y EPA 245.2			ie: 245.2WT A	SP	Analyst: LET
[Hg Total Prep	by 245.2 Prep Code:	245,2TPRASP Prep Da		/2012 11:22:		By: ARO]	0.00 (0.04.0 0.00.40 FBM
Mercury		0.541	0.200	μ g /L	•	1	8/2/2012 2:28:42 PM
CL CEMBOL (ORGANICS BY NYS	DEC ASP 2005		Lab Cod	de: 8270_AS F	TCL W	Analyst: LD
	unnel: ASP BNA by EP		510ASP		Date: 7/27/201		-
(3+4)-Methylphe		ND	25			1	7/30/2012 6:23:00 PM
1,2,4-Trichlorobe		ND	25	μg/L		1	7/30/2012 6:23:00 PM
1,2,4-11ichlorobenz		ND	25	μg/L		1	7/30/2012 6:23:00 PM
1,3-Dichlorobenz		ND	25	µg/L		1	7/30/2012 6:23:00 PM
Approved By:	PH			Date:	8-9-12		Page 20 of 3
Oualifiers: #	Accreditation not offere	ed by NYS DOH for this pa	rameter	*	Low Level		
**	Value exceeds Maximu			В	Analyte detected	d in the ass	ociated Method Blank
Е	Value above quantitation			н	Holding times for	ог ргерага	ion or analysis exceeded
J	Analyte detected below	=		ND	Not Detected at	the Report	ting Limit
Q	•	were associated with this p	arameter	_			cepted recovery limits
~		•			-		

Analytical Report

CLIENT: GHD, Inc.

U1207590

Project:

Analyses

Lab Order:

153 Fillmore Ave

Lab ID:

U1207590-005

Result

Date: 09-Aug-12

Client Sample ID: MW-7

Limit Qual Units

Collection Date: 7/24/2012 11:30:00 AM

Date Analyzed

Matrix: WATER

DF

CL-SEMIVOL ORGANICS BY NYSDEC AS	P 2005		Lab	Code: 82	270_ASPTCL_W	Analyst: LD
[AqPrep Sep Funnel: ASP BNA by EPA 3510C	Prep Co	de: 3510ASP_B			: 7/27/2012 8:10:03	
1,4-Dichlorobenzene	ND	25		ıg/L	-1	7/30/2012 6:23:00 PM
2,4,5-Trichlorophenol	ND	25	-	ıg/L	11	7/30/2012 6:23:00 PM
2,4,6-Trichlorophenol	ND	25	•	ıg/L	1	7/30/2012 6:23:00 PM
2,4-Dichlorophenol	ND	25	•	ıg/L	1	7/30/2012 6:23:00 PM
2,4-Dimethylphenol	ND	25	•	ıg/L	1	7/30/2012 6:23:00 PM
2,4-Dinitrophenol	ND	50	-	Jg/L	1	7/30/2012 6:23:00 PM
2,4-Dinitrotoluene	ND	25	-	ug/L	1	7/30/2012 6:23:00 PM
2,6-Dinitrotoluene	ND	25	ŀ	ıg/L	1	7/30/2012 6:23:00 PM
2-Chloronaphthalene	ND	25	ŀ	ıg/L	1	7/30/2012 6:23:00 PM
2-Chlorophenol	ND	25		Jg/L	1	7/30/2012 6:23:00 PM
2-Methylnaphthalene	ND	25	H	ıg/L	1	7/30/2012 6:23:00 PN
2-Methylphenol	ND	25	F	ıg/L	1	7/30/2012 6:23:00 PN
2-Nitroaniline	ND	50	ŀ	ıg/L	1	7/30/2012 6:23:00 PN
2-Nitrophenol	ND	25		ıg/L	1	7/30/2012 6:23:00 PN
3,3'-Dichlorobenzidine	ND	25		ıg/L	1	7/30/2012 6:23:00 PM
3-Nitroaniline	ND	50	į.	ıg/L	1	7/30/2012 6:23:00 PM
1,6-Dinitro-2-methylphenol	ND	50	_	ıg/L	1	7/30/2012 6:23:00 PM
I-Bromophenyl phenyl ether	ND	25		ıg/L	1	7/30/2012 6:23:00 PN
-Chioro-3-methylphenol	ND	25	F	ıg/L	1	7/30/2012 6:23:00 PN
l-Chloroaniline	ND	25	-	ıg/L	1	7/30/2012 6:23:00 PN
l-Chlorophenyl phenyl ether	ND	25	μ	ıg/L	1	7/30/2012 6:23:00 PN
I-Nitroaniline	ND	50	μ	ıg/L	1	7/30/2012 6:23:00 PN
l-Nitrophenol	ND	50	μ	ig/L	1	7/30/2012 6:23:00 PN
Acenaphthene	ND	25	μ	ıg/L	1	7/30/2012 6:23:00 PM
Acenaphthylene	9.6	25	J	ıg/L	1	7/30/2012 6:23:00 PN
Anthracene	ND	25	Į.	ıg/L	1	7/30/2012 6:23:00 PM
Benz(a)anthracene	16	25	J p	ıg/L	1	7/30/2012 6:23:00 PM
Benzo(a)pyrene	29	25	μ	ıg/L	1	7/30/2012 6:23:00 PM
Benzo(b)fluoranthene	16	25	J µ	ıg/L	1	7/30/2012 6:23:00 PM
Benzo(g,h,i)perylene	ND	25	μ	ıg/L	1	7/30/2012 6:23:00 PM
Benzo(k)fluoranthene	22	25	Jμ	ıg/L	1	7/30/2012 6:23:00 PM
Bis(2-chloroethoxy)methane	ND	25	μ	ıg/L	1	7/30/2012 6:23:00 PM
Bis(2-chloroethyl)ether	ND	25		ıg/L	1	7/30/2012 6:23:00 PM
Bis(2-chloroisopropyl)ether	ND	25	į.	ig/L	. 1	7/30/2012 6:23:00 PM
Bis(2-ethylhexyl)phthalate	8.6	25		ıg/L	1	7/30/2012 6:23:00 PM
Butyl benzyl phthalate	ND	25		ig/L	1	7/30/2012 6:23:00 PM
Carbazoie	ND	25	-	ıg/L	1	7/30/2012 6:23:00 PM

Approved By: D

Qualifiers: # Accreditation not offered by NYS DOH for this parameter

- ** Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

Date: 8-9-/2

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- Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-005

Date: 09-Aug-12

Client Sample ID: MW-7

Collection Date: 7/24/2012 11:30:00 AM

Matrix: WATER

Analyses	Result	Limit Qual Units	DF	Date Analyzed

L-SEMIVOL ORGANICS BY NYSDEC AS					70_ASPTCL_W	
[AqPrep Sep Funnel: ASP BNA by EPA 3510C					7/27/2012 8:10:03	
Chrysene	17	25	J	μg/L	1 22	7/30/2012 6:23:00 P
Di-n-butyl phthalate	ND	25		µg/L	11	7/30/2012 6:23:00 P
Di-n-octyl phthalate	ND	25		μg/L	1	7/30/2012 6:23:00 P
Dibenz(a,h)anthracene	ND	25		µg/L	1	7/30/2012 6:23:00 P
Dibenzofuran	ND	25		hg/r	1	7/30/2012 6:23:00 P
Diethyl phthalate	ND	25		µg/L	1	7/30/2012 6:23:00 P
Dimethyl phthalate	ND	25		µg/L	1	7/30/2012 6:23:00 P
luoranthene	9.4	25	J	μ g/ L	1	7/30/2012 6:23:00 P
luorene	ND	25		µg/L	1	7/30/2012 6:23:00 P
lexachlorobenzene	ND	25		µg/L	1	7/30/2012 6:23:00 P
lexachlorobutadiene	ND	25		µg/L	1	7/30/2012 6:23:00 P
exachlorocyclopentadiene	ND	25		μg/L	1	7/30/2012 6:23:00 P
exachloroethane	ND	25		μg/L	1	7/30/2012 6:23:00 P
ndeno(1,2,3-cd)pyrene	ND	25		μg/L	1	7/30/2012 6:23:00 P
ophorone	ND	25		μg/L	1	7/30/2012 6:23:00 P
-Nitrosodi-n-propylamine	ND	25		μg/L	1	7/30/2012 6:23:00 P
-Nitrosodiphenylamine	ND	25		μg/L	1	7/30/2012 6:23:00 P
aphthalene	ND	25		µg/L	1	7/30/2012 6:23:00 P
itrobenzene	ND	25		μg/L	1	7/30/2012 6:23:00 P
entachiorophenol	ND	50		μg/L	1	7/30/2012 6:23:00 P
henanthrene	ND	25		μg/L	1	7/30/2012 6:23:00 P
henol	ND	25		µg/L	1	7/30/2012 6:23:00 P
yrene	28	25		μg/L	1	7/30/2012 6:23:00 P
TIC: 13-Docosenamide, (Z)-	150	0	В	μg/L	1	7/30/2012 6:23:00 P
TIC: 9-Octadecenamide, (Z)-	31	0	В	μg/L	1	7/30/2012 6:23:00 P
TIC: Bacchotricuneatin c	100	0		μg/L	1	7/30/2012 6:23:00 P
TIC: n-Hexadecanoic acid	40	0		µg/L	1	7/30/2012 6:23:00 P
TIC: Oxacycloheptadecan-2-one	18	0		µg/L	1	7/30/2012 6:23:00 P
TIC: Pentadecane	11	0		μg/L	1	7/30/2012 6:23:00 PI
TIC: Pyrene, 2-methyl-	11	0		μg/L	1	7/30/2012 6:23:00 Pt
TIC: Sulfur	25	0		μg/L	1	7/30/2012 6:23:00 PI
TIC: unknown (17.09)	11	0		μg/L	1	7/30/2012 6:23:00 PI
TIC: unknown (20.696)	52	0		μg/L	1	7/30/2012 6:23:00 PI

ASP/CLP VOLATILES: WATER BY METHOD 5030/8260B

Lab Code: 8260ASP_TCL_W

Analyst: EMZ

Approved By:

Qualifiers:

Accreditation not offered by NYS DOH for this parameter

Value exceeds Maximum Contaminant Value

Value above quantitation range E

Analyte detected below quantitation limits

Outlying QC recoveries were associated with this parameter

Date:

Page 22 of 34

Low Level

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND

Spike Recovery outside accepted recovery limits S

Analytical Report

CLIENT: GHD, Inc.

Lab Order: U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-005

Date: 09-Aug-12

Client Sample ID: MW-7

Collection Date: 7/24/2012 11:30:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units		DF	Date Analyzed
ASP/CLP VOLATILES: WATER B	Y METHOD 5030/826	60B	Lat	Code: 8	260ASP_	_TCL_	_W Analyst: EMZ
1,1,1-Trichloroethane	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
1,1,2-Trichloroethane	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
1,1-Dichloroethane	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
1.1-Dichloroethene	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
1,2-Dichloroethane	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
1,2-Dichloropropane	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
2-Butanone	ND	10		μg/L		1	8/2/2012 10:46:00 PM
2-Hexanone	ND	10		μg/L		1	8/2/2012 10:46:00 PM
4-Methyl-2-pentanone	ND	10		μg/L		1	8/2/2012 10:46:00 PM
Acetone	29	10		μg/L		1	8/2/2012 10:46:00 PM
Benzene	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
Bromodichloromethane	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
Bromoform	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
Bromomethane	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
Carbon disulfide	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
Carbon tetrachloride	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
Chlorobenzene	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
Chloroethane	ND	5.0		µg/L		1	8/2/2012 10:46:00 PM
Chloroform	ND	5.0		µg/L		1	8/2/2012 10:46:00 PM
Chloromethane	ND	5.0		µg/L		1	8/2/2012 10:46:00 PM
cis-1,2-Dichloroethene	29	5.0		μg/L		1	8/2/2012 10:46:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L		1	8/2/2012 10:46:00 PM
Dibromochloromethane	ND	5.0		µg/L		1	8/2/2012 10:46:00 PM
Ethylbenzene	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
m,p-Xylene	ND	5.0		µg/L		1	8/2/2012 10:46:00 PM
Methylene chloride	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
o-Xylene	ND	5.0		µg/L		1	8/2/2012 10:46:00 PM
Styrene	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
Tetrachloroethene	2.5	5.0	J	µg/L		1	8/2/2012 10:46:00 PM
	ND	5.0		µg/L		1	8/2/2012 10:46:00 PM
Toluene trans-1,2-Dichloroethene	ND	5.0		μg/L		1	8/2/2012 10:46:00 PM
	ND	5.0		µg/L		1	8/2/2012 10:46:00 PM
trans-1,3-Dichloropropene	3.9	5.0	J	µg/L		1	8/2/2012 10:46:00 PM
Trichloroethene	17	5.0	•	μg/L		1	8/2/2012 10:46:00 PM
Vinyl chloride	11	0.0		L9			
NOTES: TICS: No compounds were detected.							

Approved By:

Accreditation not offered by NYS DOH for this parameter Qualifiers:

Value exceeds Maximum Contaminant Value

Value above quantitation range E

Analyte detected below quantitation limits J

Outlying QC recoveries were associated with this parameter Q

Date:

Page 23 of 34

Low Level

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND

Spike Recovery outside accepted recovery limits

Analytical R	Report			Date: 09-Aug-12					
CLIENT:	GHD, Inc.			Client S	Sample ID: MW-8				
Lab Order:	U1207590			Colle	ction Date: 7/24/20	12 9:00:00 AM			
Project:	153 Fillmore Ave								
•					Matrix: WATE	R			
Lab ID:	U1207590-006								
Analyses		Result	Limit	Qual Units	DF	Date Analyzed			
	TOTAL BY NYSDEC AS				2: 200.7WTASP	Analyst: LET			
	Metals- EPA 3005A Prep		Prep 100		12 10:52:38 AM Prep	By: ARO] 8/3/2012 12:47:42 PM			
Aluminum		ND	50.0	μg/L	(* 1	8/3/2012 12:47:42 PM			
Barlum		110	-	μ g/L	1	8/3/2012 12:47:42 PM			
Beryllium		ND	3.00	µg/L /l	1	8/3/2012 12:47:42 PM			
Cadmium		ND	5.00	μg/L	1	8/3/2012 12:47:42 PM			
Calcium		147000	5000	μg/L		8/3/2012 12:47:42 PM			
Chromium		ND	10.0	µg/L	1	8/3/2012 12:47:42 PM			
Cobalt		ND	20.0	μg/L 	1	8/3/2012 12:47:42 PM 8/3/2012 12:47:42 PM			
Copper		ND	10.0	μg/L 	1				
Iron		3650	60.0	µg/L	1	8/3/2012 12:47:42 PM			
Magnesium		28300	5000	μg/L	1	8/3/2012 12:47:42 PM			
Manganese		819	10.0	μg/L	1	8/3/2012 12:47:42 PM			
Nickel		ND	30.0	μg/L	3	8/3/2012 12:47:42 PM			
Potassium		ND	5000	μg/L	3	8/3/2012 12:47:42 PM			
Silver		ND	10.0	µg/L	1	8/3/2012 12:47:42 PM			
Sodium		19800	5000	µg/L	1	8/3/2012 12:47:42 PM			
Vanadium		ND	30.0	μg/L	1	8/3/2012 12:47:42 PM			
Zinc		43.2	10.0	μg/L	1	8/3/2012 12:47:42 PM			
·· 				Lab Cada	: 200.8ASP	Analyst: ALW			
	TALS BY ICP-MS BY E		DACD		26/2012 10:52:45 AM	Prep By: AROI			
	Total Metals: - EPA 3005A	ND	25.0	μg/L	5	7/30/2012 3:58:34 PM			
Antimony		ND	25.0	μg/L	5	7/30/2012 3:58:34 PM			
Arsenic			15.0	μg/L	5	7/30/2012 3:58:34 PM			
Lead		16.6			_	7/30/2012 3:58:34 PM			
Selenium		24.1	15.0	μg/L	5 5	7/30/2012 3:58:34 PM			
Thallium		ND	15.0	μg/L	J	7/30/20 (2 3.30.34) (4)			
NOTES: The reporting lin	mits were raised due to mat	rix interference.							
OTAL MERCU	RY WATERS ASP BY E	PA 245.2			: 245.2WTASP	Analyst: LET			
[Hg Total Prep	by 245.2 Prep Code: 245			3/2012 11:22:36		0/0/0040 0.20.45 DM			
Mercury		ND	0.200	μg/L	1	8/2/2012 2:30:45 PM			
CI SEMIVOI (ORGANICS BY NYSDE	3 ASP 2005		Lab Code	8270_ASPTCL_W	Analyst: LD			
	unnel: ASP BNA by EPA 35		10ASP		ate: 7/27/2012 8:10:03	•			
(3+4)-Methylphe		ND	5.0	μg/L	1	7/30/2012 7:02:00 PM			
1,2,4-Trichlorobe		ND	5.0	μg/L	1	7/30/2012 7:02:00 PM			
Approved By:	DH			Date: 8	2-9-12	Page 24 of 3			
	Accreditation not offered by	NYS DOH for this per	ameter	* I	ow Level	_			
ualifiers: # **	Value exceeds Maximum C		nai Livibi	_	nalyte detected in the ass	ociated Method Blank			
					olding times for preparati				
E	Value above quantitation ra	_			of Detected at the Report				
J	Analyte detected below qua	nucation limits		א עא	or norwhole or the Meball	ing raint			

Spike Recovery outside accepted recovery limits

Outlying QC recoveries were associated with this parameter

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

153 Fillmore Ave

Project: Lab ID:

U1207590-006

Date: 09-Aug-12

Client Sample ID: MW-8

Collection Date: 7/24/2012 9:00:00 AM

Matrix: WATER

TCL-SEMIVOL ORGANICS BY NYSDEC	ASP 2005			b Code: 827	0_ASPTCL_W	Analyst: LD
[AqPrep Sep Funnel: ASP BNA by EPA 3510	C Prep Code		_BNA		//27/2012 8:10:03	3 AM Prep By: DMH] 7/30/2012 7:02:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	8	7/30/2012 7:02:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	81	7/30/2012 7:02:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	
2,4,5-Trichlorophenol	ND	5.0		hð/f	1	7/30/2012 7:02:00 PM
2,4,6-Trichlorophenol	ND	5.0		µg/L	1	7/30/2012 7:02:00 PM
2,4-Dichlorophenol	ND	5.0		µg/L	1	7/30/2012 7:02:00 PM
2,4-Dimethylphenol	ND	5.0		hg/f	1	7/30/2012 7:02:00 PM
2,4-Dinitrophenol	ND	10		µg/L	1	7/30/2012 7:02:00 PM
2,4-DinItrotoluene	ND	5.0		µg/L	đ	7/30/2012 7:02:00 PM
2,6-Dinitrotoluene	ND	5.0		µg/L	ij	7/30/2012 7:02:00 PM
2-Chloronaphthalene	ND	5.0		μg/L	3	7/30/2012 7:02:00 PM
2-Chiorophenol	ND	5.0		µg/L	1	7/30/2012 7:02:00 PM
2-Methylnaphthalene	ND	5.0		μg/L	1	7/30/2012 7:02:00 PM
2-Methylphenol	ND	5.0		μg/L	81	7/30/2012 7:02:00 PM
2-Nitroaniline	ND	10		μg/L	্ব	7/30/2012 7:02:00 PM
2-Nitrophenol	ND	5.0		μg/L	4	7/30/2012 7:02:00 PM
3,3'-Dichlorobenzidine	ND	5.0		μg/L	1	7/30/2012 7:02:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/30/2012 7:02:00 PM
4,6-Dinitro-2-methylphenol	ND	10		µg/L	4	7/30/2012 7:02:00 PM
4-Bromophenyl phenyl ether	ND	5.0		μg/L	1	7/30/2012 7:02:00 PM
4-Chloro-3-methylphenol	ND	5.0		μg/L	1	7/30/2012 7:02:00 PM
4-Chloroaniline	ND	5.0		μg/L	1	7/30/2012 7:02:00 PM
4-Chlorophenyl phenyl ether	ND	5.0		μg/L	7	7/30/2012 7:02:00 PM
4-Nitroaniline	ND	10		μg/L	1	7/30/2012 7:02:00 PM
4-Nitrophenol	ND	10		μg/L	9	7/30/2012 7:02:00 PM
Acenaphthene	1.4	5.0	J	μ g/L	1	7/30/2012 7:02:00 PM
Acenaphthylene	ND	5.0		μg/L	(1	7/30/2012 7:02:00 PM
Anthracene	ND	5.0		μg/L	1	7/30/2012 7:02:00 PM
Benz(a)anthracene	ND	5.0		μg/L	1	7/30/2012 7:02:00 PM
Benzo(a)pyrene	ND	5.0		μg/L	1	7/30/2012 7:02:00 PM
Benzo(b)fluoranthene	ND	5.0		μg/L	1	7/30/2012 7:02:00 PM
Benzo(g,h,l)perylene	ND	5.0		μg/L	7	7/30/2012 7:02:00 PM
Benzo(k)fluoranthene	ND	5.0		μg/L	4	7/30/2012 7:02:00 PM
Bis(2-chloroethoxy)methane	ND	5.0		µg/L	9	7/30/2012 7:02:00 PM
Bis(2-chloroethyl)ether	ND	5.0		µg/L	1	7/30/2012 7:02:00 PM
Bis(2-chioroisopropyl)ether	ND	5.0		μg/L	1	7/30/2012 7:02:00 PM
Bis(2-ethylhexyl)phthalate	ND	5.0		μg/L	35	7/30/2012 7:02:00 PM

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Value above quantitation range Ε
- Analyte detected below quantitation limits
- Outlying QC recoveries were associated with this parameter

Date:

Page 25 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
 - Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-006

Date: 09-Aug-12

Client Sample ID: MW-8

Collection Date: 7/24/2012 9:00:00 AM

Matrix: WATER

DF **Date Analyzed** Limit Qual Units Result Analyses

L-SEMIVOL ORGANICS BY NYSDEC AS	P 2005			de: 8270_ASPTCL_V	
[AqPrep Sep Funnel: ASP BNA by EPA 3510C		: 3510ASP_B		Date: 7/27/2012 8:10:0	3 AM Prep By: DMH] 7/30/2012 7:02:00 PI
Butyl benzyl phthalate	ND	5.0	μg/L		
Carbazole	ND	5.0	μg/L		7/30/2012 7:02:00 P
Chrysene	ND	5.0	μg/L	32	7/30/2012 7:02:00 P
Di-n-butyl phthalate	ND ::	5.0	μg/L	. 1	7/30/2012 7:02:00 P
Ol-n-octyl phthalate	ND	5.0	μg/L		7/30/2012 7:02:00 P
Dibenz(a,h)anthracene	ND	5.0	µg/L		7/30/2012 7:02:00 P
Dibenzofuran	ND	5.0	μg/L	. 1	7/30/2012 7:02:00 P
Diethyl phthalate	ND	5.0	μg/L		7/30/2012 7:02:00 P
Dimethyl phthalate	ND	5.0	µg/Ł	. 1	7/30/2012 7:02:00 P
iuoranthene	ND	5.0	μg/Ľ	. 1	7/30/2012 7:02:00 P
luorene	ND	5.0	μg/L	. <u>f</u>	7/30/2012 7:02:00 P
lexachlorobenzene	ND	5.0	µg/L	. 10	7/30/2012 7:02:00 P
lexachiorobutadiene	ND	5.0	μg/L	. 19	7/30/2012 7:02:00 P
lexachiorocyclopentadiene	ND	5.0	μg/L	. 1	7/30/2012 7:02:00 P
lexachloroethane	ND	5.0	μg/L	. 1	7/30/2012 7:02:00 P
ndeno(1,2,3-cd)pyrene	ND	5.0	μg/L	. 1	7/30/2012 7:02:00 P
sophorone	ND	5.0	μg/L	. 1	7/30/2012 7:02:00 P
i-Nitrosodi-n-propylamine	ND	5.0	µg/L	. 1	7/30/2012 7:02:00 PI
I-Nitrosodiphenylamine	ND	5.0	µg/L	. 1	7/30/2012 7:02:00 P
laphthalene	ND	5.0	μg/Ľ	, 1	7/30/2012 7:02:00 PI
litrobenzene	ND	5.0	μg/L	. 1	7/30/2012 7:02:00 PI
Pentachiorophenol	ND	10	μg/L	. 1	7/30/2012 7:02:00 PI
henanthrene	ND	5.0	μg/L	. 1	7/30/2012 7:02:00 PI
Phenol	ND	5.0	μg/L	. 1	7/30/2012 7:02:00 PI
yrene	ND	5.0	μg/L	, 1	7/30/2012 7:02:00 PI
TIC: 13-Docosenamide, (Z)-	29	0	B µg/L		7/30/2012 7:02:00 PI
TIC: 18-Norabietane	2.0	0	μg/L		7/30/2012 7:02:00 PI
TIC: 9-Octadecenamide, (Z)-	7.9	0	B µg/L	. 1	7/30/2012 7:02:00 PI
TIC: unknown (8.509)	20	0	μg/L		7/30/2012 7:02:00 PI
TiC: unknown (8.76)	15	0	µg/L		7/30/2012 7:02:00 PI
TIC: unknown (8.845)	16	0	μg/L		7/30/2012 7:02:00 PI
TIC: unknown (8.941)	32	0	μg/L		7/30/2012 7:02:00 PI

ASP/CLP VOLATILES: WATER BY METHOD 5030/8260B

Lab Code: 8260ASP_TCL_W

Analyst: EMZ

1,1,1-Trichloroethane

ND

5.0

8/2/2012 11:32:00 PM

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Outlying QC recoveries were associated with this parameter

Date:

μg/L

Page 26 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded н
- Not Detected at the Reporting Limit ND
- Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-006

Date: 09-Aug-12

Client Sample ID: MW-8

Collection Date: 7/24/2012 9:00:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ASP/CLP VOLATILES: WATER B	Y METHOD 5030/82	:60B	Lat	o Code: 826	0ASP_TCL_W	Analyst: EM
1,1,2,2-Tetrachloroethane	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
1.1.2-Trichloroethane	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
1,1-Dichloroethane	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
1,1-Dichloroethene	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
1.2-Dichloroethane	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
1,2-Dichloropropane	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
2-Butanone	ND	10		μg/L	1	8/2/2012 11:32:00 PM
2-Hexanone	ND	10		µg/L	1	8/2/2012 11:32:00 PM
	ND	10		µg/L	1	8/2/2012 11:32:00 PM
4-Methyl-2-pentanone	ND	10		μg/L	1	8/2/2012 11:32:00 PM
Acetone	2.4	5.0	J	μg/L	1	8/2/2012 11:32:00 PM
Benzene Bromodichloromethane	ND	5.0	3:	μg/L	1	8/2/2012 11:32:00 PM
	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
Bromoform Bromomethane	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
Carbon disulfide	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
Carbon disumde Carbon tetrachloride	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
Carbon tetrachionde Chlorobenzene	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
Chloroethane	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
Chloroform	ND	5.0		µg/L	1	8/2/2012 11:32:00 PM
Chloromethane	22	5.0		μg/L	1	8/2/2012 11:32:00 PM
cis-1,2-Dichloroethene	ND	5.0		μg/L	9	8/2/2012 11:32:00 PM
cis-1,3-Dichloropropene	ND	5.0		μg/L	1	B/2/2012 11:32:00 PM
Dibromochioromethane	ND ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/2/2012 11:32:00 PM
m,p-Xylene	ND	5.0		μg/L	1	8/2/2012 11:32:00 PM
Methylene chloride	ND ND	5.0		µg/L	1	8/2/2012 11:32:00 PM
o-Xylene	ND ND	5.0		µg/∟ µg/L	1	8/2/2012 11:32:00 PM
Styrene		5.0		μg/L	4	8/2/2012 11:32:00 PM
Tetrachloroethene	ND	5.0		µg/L	4	8/2/2012 11:32:00 PM
Toluene	ND	5.0 5.0	J	-	4	8/2/2012 11:32:00 PM
trans-1,2-Dichloroethene	4.9	*	J	μg/L	2	8/2/2012 11:32:00 PM
trans-1,3-Dichloropropene	ND	5.0		μg/L	4	8/2/2012 11:32:00 PM
Trichloroethene	ND	5.0		μg/L	4	8/2/2012 11:32:00 PM
Vinyl chloride NOTES:	110	5.0		µg/L		OFFICE ELIGINA LIAI
TICS: No compounds were detected.						

TICS: No compounds were detected.

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits
- Outlying QC recoveries were associated with this parameter Q

Date:

Page 27 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:	GHD, Inc.				mple ID: Dupe	
Lab Order:	U1207590			Collect	ion Date: 7/24/2	012 10:00:00 AM
Project:	153 Fillmore Ave					
ab ID:	U1207590-007				Matrix: WAT	E R .
	01207550 007	Donald		Qual Units	DF	Date Analyzed
Inalyses		Result	Limit	Quai Units		<i>D</i> 200.2223,200
P METALS, T	TOTAL BY NYSDEC	ASP 2005			200.7WTASP	Analyst: LET
	Metals- EPA 3005A Pr	rep Code: 200.7TPR		Date: 7/26/2012	10:52:38 AM Pre	p By: ARO] 8/3/2012 12:55:11 PM
Aluminum		ND	100	μg/L /'	1	8/3/2012 12:55:11 PM
Barlum		196	50.0	µg/L	1	8/3/2012 12:55:11 PM
Beryllium		ND	3.00	μg/L	1	8/3/2012 12:55:11 PM
Cadmium		ND	5.00	µg/L	Ť	8/3/2012 12:55:11 PM
Calcium		138000	5000	μg/L 	1	8/3/2012 12:55:11 PM
Chromium		ND	10.0	pg/L	1	
Cobalt		ND	20.0	μg/L	1	8/3/2012 12:55:11 PM
Copper		ND	10.0	µg/L	1	8/3/2012 12:55:11 PM
Iron		5760	60.0	µg/∟	1	8/3/2012 12:55:11 PM
Magnesium		26900	5000	μg/L	1	8/3/2012 12:55:11 PM
Manganese		1020	10.0	μg/L	1	8/3/2012 12:55:11 PM
Nickel		ND	30.0	μ g/ L	1	8/3/2012 12:55:11 PM
Potassium		ND	5000	µg/L	1	8/3/2012 12:55:11 PM
Silver		ND	10.0	µg/L	1	8/3/2012 12:55:11 PM
Sodium		12800	5000	μg/L	1	8/3/2012 12:55:11 PM
		ND	30.0	μg/L	1	8/3/2012 12:55:11 PM
Vanadium Zinc		14.2	10.0	µg/L	1	8/3/2012 12:55:11 PM
SP TOTAL ME	TALS BY ICP-MS BY	Y EPA 200.8		Lab Code:		Analyst: ALW Prep By: ARO]
	otai Metals: - EPA 3005	A Prep Code: 200.	8TPRASP 25.0	prep Date: 7/20	5/2012 10:52:45 AN 5	7/30/2012 3:58:34 PM
Antimony		ND			5	7/30/2012 3:58:34 PM
Arsenic		ND	25.0	μg/L	5	7/30/2012 3:58:34 PM
Lead		ND	15.0	μg/L		7/30/2012 3:58:34 PM
Selenium		ND	15.0	µg/L	5	
Thallium		ND	15.0	µg/L	5	7/30/2012 3:58:34 PM
NOTES:	nits were raised due to n	natriv interference				
i ne reporting iir	TITS Were laised due to I	naulx interiores.				
OTAL MERCU	RY WATERS ASP B	Y EPA 245.2			245.2WTASP	Analyst: LET
[Hg Total Prep	by 245.2 Prep Code: 2				AM Prep By: ARO	0/0/0040 0:20:29 DM
Mercury		ND	0.200	μg/L	1	8/2/2012 2:32:38 PM
	ano alugo by Nyor	NEC ACD 2005		Lab Code	8270_ASPTCL_\	W Analyst: LD
L-SEMIVUL (ORGANICS BY NYSI unnel: ASP BNA by EPA	AND DON COM	2510ASP		te: 7/27/2012 8:10:	•
		ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
(3+4)-Methylphe		ND	5.0	µg/L	1	7/30/2012 7:41:00 PM
1,2,4-Trichlorobe	enzene 					
pproved By:	PH			Date: 8	9-/2	Page 28 of :
ualifiers: #	Accreditation not offere	d by NYS DOH for thi	s parameter		w Level	
	Value exceeds Maximus					ssociated Method Blank
**						
	Value above quantitatio	n range		H Ho	iding times for prepar	ation or analysis exceeded
** E J	Value above quantitatio Analyte detected below	_			iding times for prepar t Detected at the Repo	

Date: 09-Aug-12

Analytical Report

GHD, Inc. CLIENT:

Lab Order: U1207590

153 Fillmore Ave Project:

Lab ID:

U1207590-007

Result

Date: 09-Aug-12

Client Sample ID: Dupe at MW-6

Collection Date: 7/24/2012 10:00:00 AM

Matrix: WATER

DF

Date Analyzed

Analyses	Result	Limit Qua	al Units	DF	Date Analyzed
			.ab Code: 827	n ASSTOL	w Analyst: LD
TCL-SEMIVOL ORGANICS BY NYSDEC	: ASP 2005			7/27/2012 8:10:	:03 AM Prep By: DMH]
[AqPrep Sep Funnel: ASP BNA by EPA 35	ND	e: 3510A3F_DIW 5.0	μg/L	1	7/30/2012 7:41:00 PM
1,2-Dichlorobenzene	ND	5.0	μg/L	:1	7/30/2012 7:41:00 PM
1,3-Dichlorobenzene	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
1,4-Dichlorobenzene	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
2,4,5-Trichlorophenol	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
2,4,6-Trichlorophenol	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
2,4-Dichlorophenol	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
2,4-Dimethylphenol	ND	10	μg/L	4	7/30/2012 7:41:00 PM
2,4-Dinitrophenol	ND	5.0	μg/L	â	7/30/2012 7:41:00 PM
2,4-Dinitrotoluene	ND	5.0	μg/L	3	7/30/2012 7:41:00 PM
2,6-Dinitrotoluene	ND	5.0	μg/L	4	7/30/2012 7:41:00 PM
2-Chloronaphthalene		5.0 5.0	μg/L	i	7/30/2012 7:41:00 PM
2-Chlorophenoi	ND	5.0	μ g/ L	1	7/30/2012 7:41:00 PM
2-Methylnaphthalene	ND	5.0 5.0	μg/ L	1	7/30/2012 7:41:00 PM
2-Methylphenol	ND	10	μg/L	1	7/30/2012 7:41:00 PM
2-Nitroaniline	ND	•	μ g/ Έ	i	7/30/2012 7:41:00 PM
2-Nitrophenol	ND	5.0	. –	1	7/30/2012 7:41:00 PM
3,3'-Dichlorobenzidine	ND	5.0	μg/L	4	7/30/2012 7:41:00 PM
3-Nitroaniline	ND	10	μg/L	4	7/30/2012 7:41:00 PM
4,6-Dinitro-2-methylphenol	ND	10	μg/L	4	7/30/2012 7:41:00 PM
4-Bromopheriyl phenyl ether	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
4-Chloro-3-methylphenol	ND	5.0	μg/L "	4	7/30/2012 7:41:00 PM
4-Chloroaniline	ND	5.0	μg/L	4	7/30/2012 7:41:00 PM
4-Chlorophenyl phenyl ether	ND	5.0	µg/L	85	
4-Nitroaniline	ND	10	μg/ L	1	7/30/2012 7:41:00 PM
4-Nitrophenof	ND	10	µg/L	.1	7/30/2012 7:41:00 PM
Acenaphthene	3.0	5.0 J	μg/L	35	7/30/2012 7:41:00 PM
Acenaphthylene	ND	5.0	µg/L	1	7/30/2012 7:41:00 PM
Anthracene	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
Benz(a)anthracene	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
Benzo(a)pyrene	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
Benzo(b)fluoranthene	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
Benzo(g,h,i)perylene	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
Benzo(k)fluoranthene	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
Bis(2-chloroethoxy)methane	ND	5.0	µg/L	1	7/30/2012 7:41:00 PM
Bis(2-chloroethyl)ether	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
	ND	5.0	μg/L	1	7/30/2012 7:41:00 PM
Bis(2-chloroisopropyl)ether Bis(2-ethylhexyl)phthalate	ND	5.0	µg/L	1	7/30/2012 7:41:00 PM

Approved By:

Accreditation not offered by NYS DOH for this parameter Qualifiers:

- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits
- Outlying QC recoveries were associated with this parameter

Date:

Page 29 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

Analyses

U1207590-007

Result

Limit Qual Units

Matrix: WATER

DF

Collection Date: 7/24/2012 10:00:00 AM

Date: 09-Aug-12

Client Sample ID: Dupe at MW-6

Date Analyzed

L-SEMIVOL ORGANICS BY NYSDEC AS	P 2005			Code: 82	70_ASPTCL_W	Analyst: LD
[AqPrep Sep Funnel: ASP BNA by EPA 3510C		: 3510ASP_B			7/27/2012 8:10:03	AM Prep By: DMH] 7/30/2012 7:41:00 PM
Butyl benzyl phthalate	ND	5.0		ıg/L	1	7/30/2012 7:41:00 PM
Carbazole	ND	5.0		ıg/L	:1	7/30/2012 7:41:00 PN
Chrysene	ND	5.0		ıg/L	1	7/30/2012 7:41:00 PM
Di-n-butyl phthalate	ND	5.0	_	ıg/L	22	7/30/2012 7:41:00 PM
Di-n-octyl phthalate	ND	5.0		ıg/L	1	.,
Dibenz(a,h)anthracene	מא	5.0		ıg/L	1	7/30/2012 7:41:00 PM
Dibenzofuran	ND	5.0		ıg/L	1	7/30/2012 7:41:00 PM
iethyl phthalate	ND	5.0		ıg/L	1	7/30/2012 7:41:00 PM
Pimethyl phthalate	ND	5.0		ıg/L	1	7/30/2012 7:41:00 PM
luoranthene	ND	5.0	•	ıg/L	1	7/30/2012 7:41:00 PM
luorene	ND	5.0		ıg/L	1	7/30/2012 7:41:00 PI
lexachiorobenzene	ND	5.0	μ	ıg/L	1	7/30/2012 7:41:00 PM
iexachlorobutadiene	ND	5.0	μ	ıg/L	1	7/30/2012 7:41:00 PI
lexachlorocyclopentadiene	ND	5.0	μ	ıg/L	15	7/30/2012 7:41:00 PI
lexachloroethane	ND	5.0	μ	ig/L	1	7/30/2012 7:41:00 PI
ndeno(1,2,3-cd)pyrene	ND	5.0	μ	ıg/L	1	7/30/2012 7:41:00 PI
ophorone	ND	5.0	μ	ıg/L	1	7/30/2012 7:41:00 PI
-Nitrosodi-n-propylamine	ND	5.0	μ	ıg/L	1	7/30/2012 7:41:00 Pf
-Nitrosodiphenylamine	ND	5.0	μ	ıg/L	1	7/30/2012 7:41:00 P!
aphthaiene	ND	5.0	ħ	ıg/L	1	7/30/2012 7:41:00 PI
litrobenzene	ND	5.0	μ	ıg/L	1	7/30/2012 7:41:00 PI
entachlorophenol	ND	10		ıg/L	1	7/30/2012 7:41:00 PM
henanthrene	ND	5.0		ıg/L	1	7/30/2012 7:41:00 PI
Phenol	ND	5.0	μ	ıg/L	1	7/30/2012 7:41:00 Pf
•	ND	5.0	μ	ıg/L	.1	7/30/2012 7:41:00 Pt
yrene TłC: 1,1'-Biphenyi, 2-methyl-	3.7	0		ıg/L	1	7/30/2012 7:41:00 Pf
TIC: 1-Methylicarbazole	2.3	0	-	ıg/L	1	7/30/2012 7:41:00 Pf
TIC: 13-Docosenamide, (Z)-	29	0		ıg/L	1	7/30/2012 7:41:00 Pf
TIC: 1H-Indene, 2,3-dihydro-1,2-	27	0		ig/L	1	7/30/2012 7:41:00 Pt
imethy			•	•		
TIC: 1H-Indene, 2,3-dihydro-1,6-	30	0	μ	ıg/L	1	7/30/2012 7:41:00 PI
imethy					89	7/00/0040 7.44.00 DI
TIC: 9-Octadecenamide, (Z)-	5.7	-		ıg/L	1	7/30/2012 7:41:00 Pt
TIC: Benzene, pentamethyl-	62	0	-	ıg/L	1	7/30/2012 7:41:00 PM
TIC: Benzo[b]thiophene, 2,3-	200	0	μ	ıg/L	1	7/30/2012 7:41:00 Pf
ihydro-				#	1	7/30/2012 7:41:00 PM
TIC: Naphthaiene, 1,3-dimethyl-	2.4	0	,	ıg/L	1	7/30/2012 7:41:00 PM
TIC: Naphthalene, 1,4-dimethyl-	5.8	0	μ	ıg/L	7	113012012 1.71.00 FT

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits
- Outlying QC recoveries were associated with this parameter

Date:

Page 30 of 34

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
 - Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-007

Date: 09-Aug-12

Client Sample ID: Dupe at MW-6

Collection Date: 7/24/2012 10:00:00 AM

Matrix: WATER

ASP/CLP VOLATILES: WATER BY METHOD 5030/82508 Edit Section 5030/82508 Edit Section 5030/82508 1,1,1-Trichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,1,2-Trichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,1-Dichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,1-Dichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,2-Dichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,2-Dichloropropane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,2-Dichloropropane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,2-Dichloropropane ND 10 µg/L 1 8/3/2012 12:18:00 AM 2-Butanone ND 10 µg/L 1 8/3/2012 12:18:00 AM 2-Hexanone ND 10 µg/L 1 8/3/2012 12:18:00 AM 4-Methyl-2-pentanone ND 10 µg/L 1 8/3/2012 12:18:00 AM Acatone ND 5.0 µg/L	Analyses	Result	Limit (Qual Units	DF	Date Analyzed
TCL_SEMVOL ORGANICS BY NYSDEA 52000 [AQPPep Sep Funnel: ASP BNA by EPA 3510C] [TiC: unknown (10.534) TiC: unknown (10.534) TiC: unknown (10.79) TiC: unknown (8.477) TiC: unknown (8.547) TiC: unknown (8.568) 20 0 µg/L 1 7/30/2012 7:41:00 PN TiC: unknown (8.569) 20 0 µg/L 1 7/30/2012 7:41:00 PN TiC: unknown (8.569) TiC: unknown (8.569) TiC: unknown (8.569) 21 0 µg/L 1 7/30/2012 7:41:00 PN TiC: unknown (8.569) TiC: unknown (8.569) TiC: unknown (8.569) TiC: unknown (8.569) TiC: unknown (8.647) TiC: unknown (8.647) TiC: unknown (8.947) TiC: unknown (8.947) TiC: unknown (8.047) TiC: unknown (8.04						
Apprep Sep Funnel: ASP BNA by EPA 3510C Frep Code: 3510ASP BNA by EPA 3510C TIC: unknown (10.534) T730/2012 7:41:00 PM Frep Late: 1/21/2012 8:1003 AW Frep Late: 1/21/2012	TCL-SEMIVOL ORGANICS BY NYSDEC	ASP 2005			_ASPTCL_\	
TIC: unknown (10.534) TIC: unknown (11.079) 3.4 0 µg/L 1 7730/2012 7:41:00 PM TIC: unknown (8.477) 20 0 µg/L 1 7730/2012 7:41:00 PM TIC: unknown (8.584) 20 0 µg/L 1 7730/2012 7:41:00 PM TIC: unknown (8.6584) 27 0 µg/L 1 7730/2012 7:41:00 PM TIC: unknown (8.6584) 27 0 µg/L 1 7730/2012 7:41:00 PM TIC: unknown (8.835) 24 0 µg/L 1 7730/2012 7:41:00 PM TIC: unknown (8.947) 37 0 µg/L 1 7730/2012 7:41:00 PM TIC: unknown (8.947) 37 0 µg/L 1 7730/2012 7:41:00 PM TIC: unknown (9.011) 34 0 µg/L 1 7730/2012 7:41:00 PM ASP/CLP VOLATILES: WATER BY METHOD 5030/8260B Lab Code: 8260ASP_TCL_W Analyst: EM 1.1,1-Trichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1.1,2-Z-Tetrachloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1.1,2-Z-Tetrachloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1.1,2-Tichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1.1,2-Dichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1.1,2-Dichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1.2-Dichloroethane ND	[AqPrep Sep Funnel: ASP BNA by EPA 35	10C Prep Code:	3510ASP_E			
TIC: unknown (1.079) TIC: unknown (8.777) 10: unknown (8.7877) 11: unknown (8.7864) 11: unknown (8.7865) 127 0 μg/L 1 7/30/2012 7:41:00 PM TIC: unknown (8.7865) 127 0 μg/L 1 7/30/2012 7:41:00 PM TIC: unknown (8.835) 124 0 μg/L 1 7/30/2012 7:41:00 PM TIC: unknown (8.9477) 137 0 μg/L 1 7/30/2012 7:41:00 PM TIC: unknown (8.9477) 137 0 μg/L 1 7/30/2012 7:41:00 PM TIC: unknown (9.011) ASP/CLP VOLATILES: WATER BY METHOD 5030/8260B Lab Code: 8260ASP_TCL_W Analyst: EM 1.1.1-Trichloroethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM 1.1.2-Trichloroethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM 1.1.1-Dichloroethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM 1.1.1-Dichloroethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM 1.1.1-Dichloroethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM 1.1.2-Dichloroethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM 1.2-Dichloroethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM Acetone ND 10 μg/L 1 8/3/2012 12:18:00 AM Acetone ND 5.0 μg/L 1 8/3/2012 12:18:00 AM Bromodichloromethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM Bromodichloromethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM Bromomethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM Bromodichloromethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM Bromodichloroethane ND 5.0 μg/L 1 8/3/2012 12:18:00 AM Bromodichloroeth	TIC: unknown (10.534)	5.1	U	hār	•	
TIC: unknown (8.477) TIC: unknown (8.765) TIC: unknown (8.765) TIC: unknown (8.765) TIC: unknown (8.365) TIC: unknown (8.385) TIC: unknown (8.385) TIC: unknown (8.387) TIC: unknown (8.387) TIC: unknown (8.947) TIC: unknown (9.947) TIC: unk	TIC: unknown (11.079)		-	, -	•	
TIC: unknown (8.584) TIC: unknown (8.785) TIC: unknown (8.785) TIC: unknown (8.785) TIC: unknown (8.785) TIC: unknown (8.947) TIC: unknown (8.947) TIC: unknown (8.947) TIC: unknown (8.947) TIC: unknown (9.011) ASP/CLP VOLATILES: WATER BY METHOD 5030/8260B Lab Code: 8280ASP_TCL_W Analyst: EM Analyst: EM Analyst: EM Analyst: Anal	TIC: unknown (8.477)		_		•	
TIC: unknown (8.765) 24 0 µg/L 1 7/30/2012 7:41:00 PM TIC: unknown (8.947) 37 0 µg/L 1 7/30/2012 7:41:00 PM TIC: unknown (8.947) 37 0 µg/L 1 7/30/2012 7:41:00 PM TIC: unknown (9.011) 34 0 µg/L 1 7/30/2012 7:41:00 PM ASP/CLP VOLATILES: WATER BY METHOD 5030/8260B Lab Code: 8260ASP_TCL_W Analyst: EM 1,1,1-Trichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,1,2-Trichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,1-Dichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,2-Dichloroethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 2-Butanone ND 10 µg/L 1 8/3/2012 12:18:00 AM 4-Methyl-2-pentanone ND 10 µg/L 1 8/3/2012 12:18:00 AM 4-Methyl-2-pentanone ND 10 µg/L 1 8/3/2012 12:18:00 AM Benzene ND 5.0 µg/L 1 8/3/2012 12:18:00 AM Bromoform ND 5.0 µg/L 1 8/3/20	TIC: unknown (8.584)		_		•	
TiC: unknown (8.947) TiC: unknown (9.947) Tic: unkn	TIC: unknown (8.765)		=	. •		
TIC: unknown (8.947) TIC: unknown (9.011) 34 0	TIC: unknown (8.835)		_	, -	*	.,,
ASP/CLP VOLATILES: WATER BY METHOD 5030/8260B Lab Code: 8260ASP_TCL_W	TIC: unknown (8.947)	37	-		•	
1,1,1-Trichloroethane	TIC: unknown (9.011)	34	0	μg/L	1	7/30/2012 7:41:00 PW
1,1-Trichloroethane	ASP/CLP VOLATILES: WATER BY MET	HOD 5030/826	В	Lab Code: 826	ASP_TCL_\	W Analyst: EMZ
1.1,2,2-Tetrachloroethane 1.1,2-Trichloroethane 1.1,1,2-Trichloroethane 1.1,1,2-Trichloroethane 1.1,1,2-Trichloroethane 1.1,1-Dichloroethane 1.1,1-Dichloroethane 1.1,1-Dichloroethane 1.1,1-Dichloroethane 1.1,1-Dichloroethane 1.1,1-Dichloroethane 1.2,1-Dichloroethane 1.2,1-Dichloroethane 1.2,1-Dichloroethane 1.2,1-Dichloropropane 1.2,1-Dichloropropan	4 4 4 Trichlomethane	ND	5.0	μg/L	1	8/3/2012 12:18:00 AM
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichlo		ND	5.0	μg/L	1	8/3/2012 12:18:00 AM
1,1-Dichloroethane	• • •		5.0		1	8/3/2012 12:18:00 AM
1,1-Dichloroethene ND 5.0 µg/L 1 8/3/2012 12:18:00 AN 1,2-Dichloropropane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN 1,2-Dichloropropane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN 1,2-Dichloropropane ND 10 µg/L 1 8/3/2012 12:18:00 AN 2-Butanone ND 10 µg/L 1 8/3/2012 12:18:00 AN 4-Methyl-2-pentanone ND 5.0 µg/L 1 8/3/2012 12:18:	1, 1,=	ND	5.0	μg/L	1	8/3/2012 12:18:00 AM
1,2-Dichloroethane 1,2-Dichloropropane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM 1,2-Dichloropropane ND 10 µg/L 1 8/3/2012 12:18:00 AM 2-Butanone ND 10 µg/L 1 8/3/2012 12:18:00 AM 2-Hexanone ND 10 µg/L 1 8/3/2012 12:18:00 AM 4-Methyl-2-pentanone ND 10 µg/L 1 8/3/2012 12:18:00 AM Acetone ND 10 µg/L 1 8/3/2012 12:18:00 AM Benzene ND 5.0 µg/L 1 8/3/2012 12:18:00 AM Bromodichloromethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM Bromomethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AM Carbon disulfide ND 5.0 µg/L 1 8/3/2012 12:18:00 AM Carbon tetrachloride ND 5.0 µg/L 1 8/3/2012 12:18:00 AM Chlorobenzene ND 5.0 µg/L 1 8/3/2012 12:18:00 AM Chlorotentane ND 6.0 µg/L 1 8/3/2012 12:18:00 AM Chlorotentane ND 6.0 µg/L 1 8/3/2012 12:18:00 AM Chlorotentane ND 6.0 µg/L 1 8/3/2012 12:18:00 AM Chloroten	-,	ND	5.0	μg/L	1	8/3/2012 12:18:00 AM
1,2-Dichloropropane 1,2-Dichloropropane ND 10 10 10 10 10 10 10 10 10 10 10 10 10	•	• • • •	5.0		1	8/3/2012 12:18:00 AM
2-Butanone ND 10 µg/L 1 8/3/2012 12:18:00 AM 2-Hexanone ND 10 µg/L 1 8/3/2012 12:18:00 AM 4-Methyl-2-pentanone ND 10 µg/L 1 8/3/2012 12:18:00 AM 4-Methyl-2-pentanone ND 10 µg/L 1 8/3/2012 12:18:00 AM Acetone ND 10 µg/L 1 8/3/2012 12:18:00 AM Residence ND 5.0 µg/L 1 8/3/2012 12:18:00 AM Residence ND 6:5-1,2-Dichloropropene ND 5.0 µg/L 1 8/3/2012 12:18:00 AM Residence ND 6:5-1,3-Dichloropropene ND 6:00	· ·		5.0		1	8/3/2012 12:18:00 AM
2-Hexanone 2-Hexanone ND 10 µg/L 1 8/3/2012 12:18:00 AN 4-Methyl-2-pentanone ND 10 µg/L 1 8/3/2012 12:18:00 AN Acetone ND 10 µg/L 1 8/3/2012 12:18:00 AN Benzene ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Bromodichloromethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Bromoform ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Bromomethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Bromomethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Carbon disulfide ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Carbon tetrachloride ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Chlorobenzene ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Chlorothane			10		1	8/3/2012 12:18:00 AM
4-Methyl-2-pentanone					1	8/3/2012 12:18:00 AM
Acetone ND 10 µg/L 1 8/3/2012 12:18:00 AN Benzene ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Bromodichloromethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Bromomethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Bromomethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Bromomethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Carbon disulfide ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Carbon tetrachloride ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Chlorobenzene ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Chlorobentane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Chloroform ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Chloromethane	<u> </u>				1	8/3/2012 12:18:00 AM
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Chloroethane Chloroform ND 5.0 µg/L Chloroform ND 5.0 µg/L Chloromethane ND 5.0 µg/L Chloromethane ND 5.0 µg/L Cis-1,2-Dichloroethene ND 5.0 µg/L Cis-1,3-Dichloropropene ND 5.0 µg/L Signal 12:18:00 AN ND 5.0 µg/L	Chlorobenzene					
Chloroform Chloromethane ND 5.0 µg/L 8/3/2012 12:18:00 AN cis-1,2-Dichloroethene ND 5.0 µg/L 1 8/3/2012 12:18:00 AN cis-1,3-Dichloropropene ND 5.0 µg/L 1 8/3/2012 12:18:00 AN 8/3/2012 12:18:00 AN Dibromochloromethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN 8/3/2012 12:18:00 AN ND 5.0 µg/L 1 8/3/2012 12:18:00 AN ND 5.0 µg/L 1 8/3/2012 12:18:00 AN ND 5.0 µg/L 1 8/3/2012 12:18:00 AN	Chloroethane		•		100	8/3/2012 12:18:00 AM
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cis-1,2-Dichloroethene ND 5.0 µg/L 8/3/2012 12:18:00 AN cis-1,3-Dichloropropene ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Dibromochloromethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN	Chloromethane				- 22	
Cis-1,3-Dichloropropene ND 5.0 µg/L 1 8/3/2012 12:18:00 AN Dibromochloromethane ND 5.0 µg/L 1 8/3/2012 12:18:00 AN	cis-1,2-Dichloroethene				25	
Dibromochloromethane ND 5.0 pg/L 8/3/2012 12:18:00 AN	cis-1,3-Dichloropropene		•		(3	
	Dibromochloromethane				3.0	4.4.2
	Ethylbenzene	ND	5.0	µg/L	л.	0/3/2012 12:10:00 AIVI

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits
- Outlying QC recoveries were associated with this parameter Q

Date:

Page 31 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
 - Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT:

GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-007

Date: 09-Aug-12

Client Sample ID: Dupe at MW-6

Collection Date: 7/24/2012 10:00:00 AM

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ASP/CLP VOLATILES: WATER E	Y METHOD 5030/826	0B	Lab	Code: 826	OASP_TCL_W	Analyst: EMZ
Vulono	ND	5.0		µg/L	1	8/3/2012 12:18:00 AM
m,p-Xylene Methylene chloride	ND	5.0		μg/L	1	8/3/2012 12:18:00 AM
_	ND	5.0		μg/L	1	8/3/2012 12:18:00 AM
o-Xylene	ND	5.0		μg/L	1	8/3/2012 12:18:00 AM
Styrene	ND	5.0		μg/L	1	8/3/2012 12:18:00 AM
Tetrachloroethene	ND	5.0		μg/L	1	8/3/2012 12:18:00 AM
Toluene	ND	5.0		µg/L	1	8/3/2012 12:18:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/3/2012 12:18:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/3/2012 12:18:00 AM
Trichloroethene Vinyl chloride	ND	5.0		µg/L	1	8/3/2012 12:18:00 AM
NOTES:						

TICS: No compounds were detected.

Approved By:

Qualifiers:

- Accreditation not offered by NYS DOH for this parameter
- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits
- Outlying QC recoveries were associated with this parameter

Date:

Page 32 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
 - Spike Recovery outside accepted recovery limits

Analytical Report

GHD, Inc. CLIENT:

U1207590 Lab Order:

Project:

153 Fillmore Ave

Lab ID:

U1207590-008

Date: 09-Aug-12

Client Sample ID: ULI Trip Blank

Collection Date: 7/24/2012

Matrix: WATER

Analyses	Result	Limit	Qual	Units		DF	Date Analyzed
	TIOD F000 0000	NB	طم ا	Codo: 5	3260ASP	TCI	W Analyst: EMZ
ASP/CLP VOLATILES: WATER BY ME	ETHOD 5030/826	0B	ran	Code: c	20VA3F	_105.	_ TY Allalyst. CIME
1,1,1-Trichloroethane	ND	5.0		ıg/L		1	8/3/2012 1:04:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	Į.	ıg/L		1	8/3/2012 1:04:00 AM
1,1,2-Trichloroethane	ND	5.0		ıg/L		1	8/3/2012 1:04:00 AM
1,1-Dichloroethane	ND	5.0	ŀ	ug/L		1	8/3/2012 1:04:00 AM
1,1-Dichloroethene	ND	5.0	ŀ	ug/L		1	8/3/2012 1:04:00 AM
1,2-Dichloroethane	ND	5.0		ıg/L		1	8/3/2012 1:04:00 AM
1,2-Dichloropropane	ND	5.0	į.	ıg/L		1	8/3/2012 1:04:00 AM
2-Butanone	ND	10	Į.	ıg/L		1	8/3/2012 1:04:00 AM
2-Hexanone	ND	10	ŀ	ıg/L		1	8/3/2012 1:04:00 AM
4-Methyl-2-репtаполе	ND	10	ŀ	ıg/L		1	8/3/2012 1:04:00 AM
Acetone	ND	10	ŀ	ıg/L		1	8/3/2012 1:04:00 AM
Benzene	ND	5.0	ŀ	ıg/L		1	8/3/2012 1:04:00 AM
Bromodichloromethane	ND	5.0	ŀ	ıg/L		1	8/3/2012 1:04:00 AM
Bromoform	ND	5.0	Ļ	ıg/L		1	8/3/2012 1:04:00 AM
Bromomethane	ND	5.0	Ļ	ıg/L		1	8/3/2012 1:04:00 AM
Carbon disulfide	ND	5.0	ļ.	ıg/L		1	8/3/2012 1:04:00 AM
Carbon tetrachloride	ND	5.0	H	ıg/L		1	8/3/2012 1:04:00 AM
Chlorobenzene	ND	5.0	Į.	ıg/L		1	8/3/2012 1:04:00 AM
Chloroethane	ND	5.0	μ	ıg/L		1	8/3/2012 1:04:00 AM
Chloroform	ND	5.0	μ	ıg/L		1	8/3/2012 1:04:00 AM
Chloromethane	ND	5.0	μ	ıg/L		1 :	8/3/2012 1:04:00 AM
cis-1,2-Dichloroethene	ND	5.0	μ	ıg/L		1	8/3/2012 1:04:00 AM
cis-1,3-Dichloropropene	ND	5.0	μ	ıg/L		1	8/3/2012 1:04:00 AM
Dibromochloromethane	ND	5.0	μ	ıg/L		1	8/3/2012 1:04:00 AM
Ethylbenzene	ND	5.0	μ	ıg/L		1	8/3/2012 1:04:00 AM
m,p-Xylene	ND	5.0	μ	ıg/L		1	8/3/2012 1:04:00 AM
Methylene chloride	ND	5.0	μ	ıg/L		1	8/3/2012 1:04:00 AM
o-Xylene	ND	5.0	μ	ıg/L		1	8/3/2012 1:04:00 AM
Styrene	ND	5.0		g/L		1	8/3/2012 1:04:00 AM
Tetrachloroethene	ND	5.0	μ	g/L		1	8/3/2012 1:04:00 AM
Toluene	ND	5.0	μ	g/L		1	8/3/2012 1:04:00 AM
trans-1,2-Dichloroethene	ND	5.0	-	g/L		1	8/3/2012 1:04:00 AM
trans-1,3-Dichloropropene	ND	5.0	μ	g/L		1	8/3/2012 1:04:00 AM
Trichloroethene	ND	5.0		g/L		1	B/3/2012 1:04:00 AM
Vinyl chloride	ND	5.0	-	g/L		1	8/3/2012 1:04:00 AM
NOTES:			·				
TICS: No compounds were detected.							

Approved By:

Accreditation not offered by NYS DOH for this parameter Qualifiers:

- Value exceeds Maximum Contaminant Value
- Value above quantitation range E
- Analyte detected below quantitation limits J
- Outlying QC recoveries were associated with this parameter Q

Date: 8-9-/2

Page 33 of 34

- Low Level
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
 - Spike Recovery outside accepted recovery limits

Analytical Report

CLIENT: GHD, Inc.

Lab Order:

U1207590

Project:

153 Fillmore Ave

Lab ID:

U1207590-009

Result

Limit Qual Units

Matrix: WATER

Client Sample ID: Holding Blank

Date: 09-Aug-12

Collection Date: 7/25/2012 9:25:00 AM

DF

Date Analyzed

Analyses Analyst: EMZ Lab Code: 8260ASP_TCL_W ASP/CLP VOLATILES: WATER BY METHOD 5030/8260B 8/3/2012 1:50:00 AM ND 5.0 µa/L 1,1,1-Trichloroethane 1 8/3/2012 1:50:00 AM μg/L ND 5.0 1,1,2,2-Tetrachloroethane 8/3/2012 1:50:00 AM 1 ND 5.0 µg/L 1.1.2-Trichloroethane 8/3/2012 1:50:00 AM 1 ND 5.0 µg/L 1,1-Dichloroethane 8/3/2012 1:50:00 AM ND 5.0 μg/L 1 1.1-Dichloroethene 8/3/2012 1:50:00 AM μg/L 1 ND 5.0 1,2-Dichloroethane 1 8/3/2012 1:50:00 AM 5.0 μg/L ND 1,2-Dichioropropane 8/3/2012 1:50:00 AM 1 ND 10 µg/L 2-Butanone 8/3/2012 1:50:00 AM 1 ND 10 μg/L 2-Нехалопе 8/3/2012 1:50:00 AM 1 ND 10 μg/L 4-Methyl-2-pentanone 10 1 8/3/2012 1:50:00 AM ND μg/L Acetone 1 8/3/2012 1:50:00 AM 5.0 μg/L ND Benzene 8/3/2012 1:50:00 AM 1 ND 5.0 μg/L Bromodichloromethane 8/3/2012 1:50:00 AM µg/L 1 ND 5.0 Bromoform 8/3/2012 1:50:00 AM 1 5.0 µg/L ND Bromomethane 1 8/3/2012 1:50:00 AM ND 5.0 µg/L Carbon disulfide 1 8/3/2012 1:50:00 AM 5.0 μg/L ND Carbon tetrachloride 8/3/2012 1:50:00 AM 1 5.0 μg/L Chlorobenzene ND 8/3/2012 1:50:00 AM 1 ND 5.0 µg/L Chloroethane 8/3/2012 1:50:00 AM 1 5.0 μg/L ND Chlomform 8/3/2012 1:50:00 AM 1 ND 5.0 μg/L Chloromethane 1 8/3/2012 1:50:00 AM ND 5.0 μg/L cis-1,2-Dichloroethene 1 8/3/2012 1:50:00 AM ND 5.0 μg/L cls-1,3-Dichloropropene 8/3/2012 1:50:00 AM 1 Dibromochloromethane ND 5.0 µg/L 8/3/2012 1:50:00 AM µg/L ND 5.0 Ethylbenzene 8/3/2012 1:50:00 AM 1 5.0 μg/L ND m,p-Xylene 1 8/3/2012 1:50:00 AM ND 5.0 µg/L Methylene chloride 8/3/2012 1:50:00 AM 1 5.0 μg/L ND o-Xylene 1 8/3/2012 1:50:00 AM ND 5.0 μg/L Styrene 8/3/2012 1:50:00 AM ND 5.0 μg/L Tetrachloroethene 8/3/2012 1:50:00 AM ND 5.0 μg/L Toluene 8/3/2012 1:50:00 AM 5.0 ND µg/L trans-1,2-Dichloroethene 8/3/2012 1:50:00 AM 5.0 μg/L ND trans-1,3-Dichloropropene 8/3/2012 1:50:00 AM 5.0 μg/L Trichlomethene ND 8/3/2012 1:50:00 AM ND 5.0 µg/L Vinyl chloride NOTES:

Approved By:

TICS: No compounds were detected.

Qualifiers:

- # Accreditation not offered by NYS DOH for this parameter
- ** Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

Date: 8-9-/2

Page 34 of 34

- Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

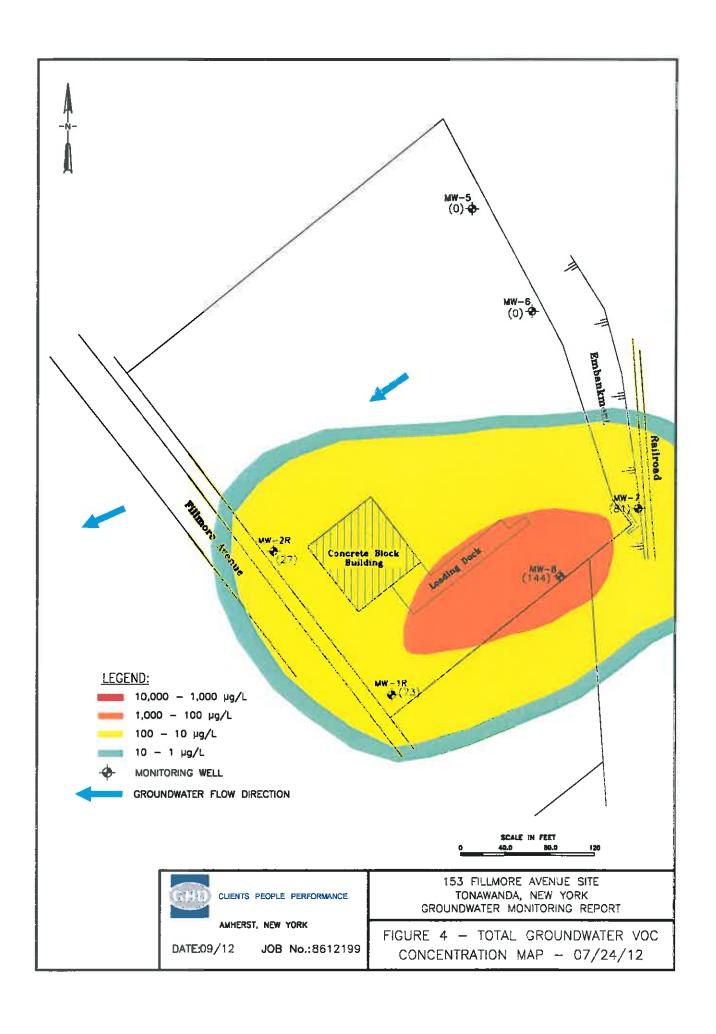
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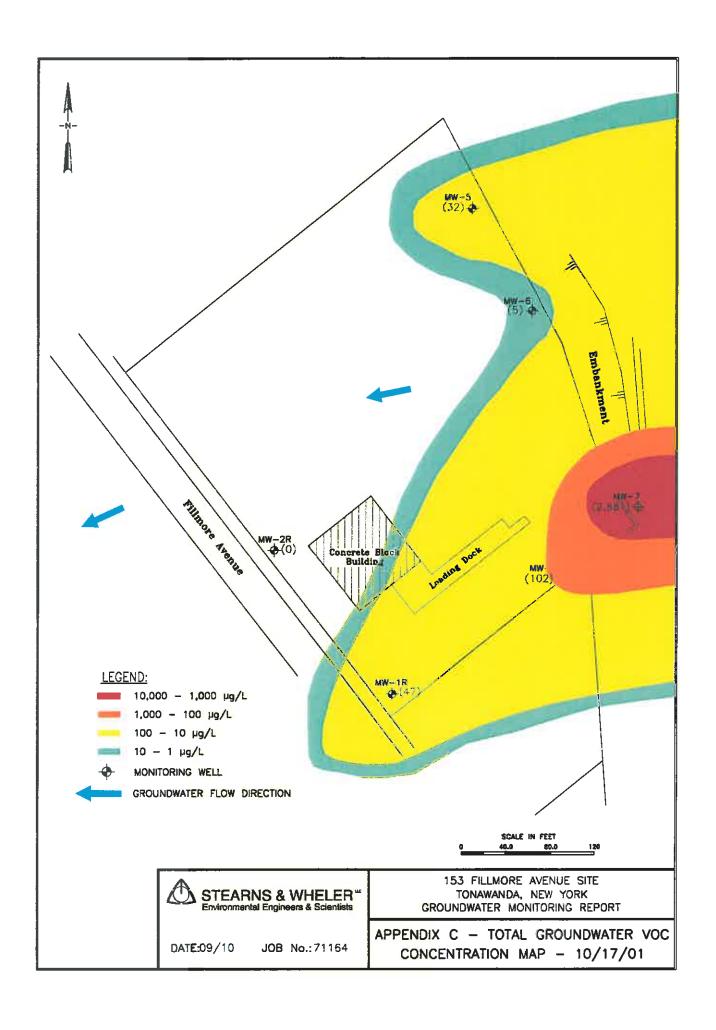
6034 Corporate Drive E. Syracuse New York 13057 Phone (315) 437 0255	New York 1305	7 Fax (315) 437 1209	137 1209						•		5	ULI Computer Input Form	E
CLENT		Project #/ Project Name	Name			N	_	_					
GHD		153 FILLMORE	MORE A	AVE		lumbi			•			Remarks	
Client Contact:	Phone #	Location (City/Sta	(e)			er of						F 784 7:	70
DAVE ROWLINSON	(716) 691-8503 TONAWANDA,	TONAW/	ANDA, NY	,								IO UNY TURNARIONALY	arcon
Sample ID	Date	Time	Matrix	Grab or Comp	ULJ Internal Use Only	iners	٦	ى 4	5	7 8	9 10	ASP-B	
MW-1	7/74/12	00:71	WATER	GRAB		4 X	×	×	-			:	
MW-2		12:45	WATER	GRAB	Q	4 X	×	×					
MW-5		10:30	WATER	GRAB	3	4 X	×	×		_			
MW-6		10:00	WATER	GRAB	H	4 X	×	×					
MW-7		11:36	WATER	GRAB	S	4 X	X	×					
-WW-8		00:6	WATER GRAB	GRAB	9	4 X	×	×					
MS/MSD (2) MW-1		$(5,\infty)$	WATER	GRAB		7 X	×	×					
DUPE & AW-6		0:00	WATER	GRAB	7	4 X	×	×					
ULI TRIP BLANK	A		WATER	GRAB	∞	₹ ×							
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			AMBER	11.	NONE	Company: CHD	J Suz	왔					
13 T-AL, SB, AS, BA, BE, CD, CA, CH, CO, CU, FE, PB, MG, MN T-HC NI K SE AC NA TI V ZN	A,CO,CU,FE,PB	,MG,MN	PLASTIC	500ML	HNO3	Refined in the second in the s		Relinquished by:(sign)		Date	Time	Received by: (sign)	_
4						F F	Z	¥		Method	35		ii.
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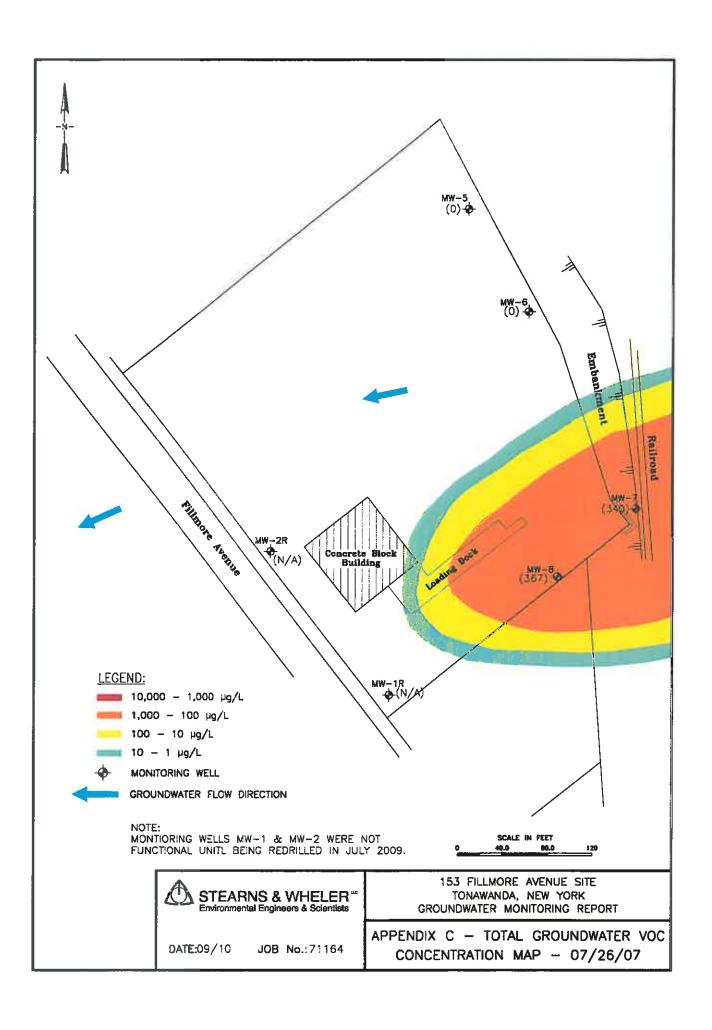
APPENDIX C

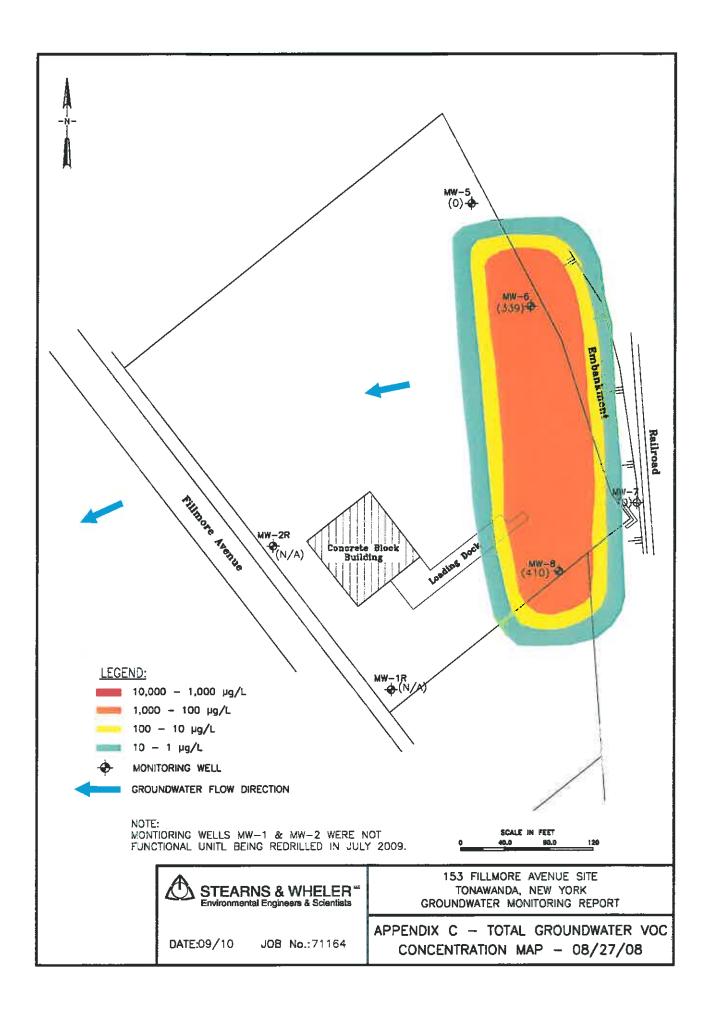
HISTORICAL GROUNDWATER TOTAL VOC CONCENTRATION FIGURES

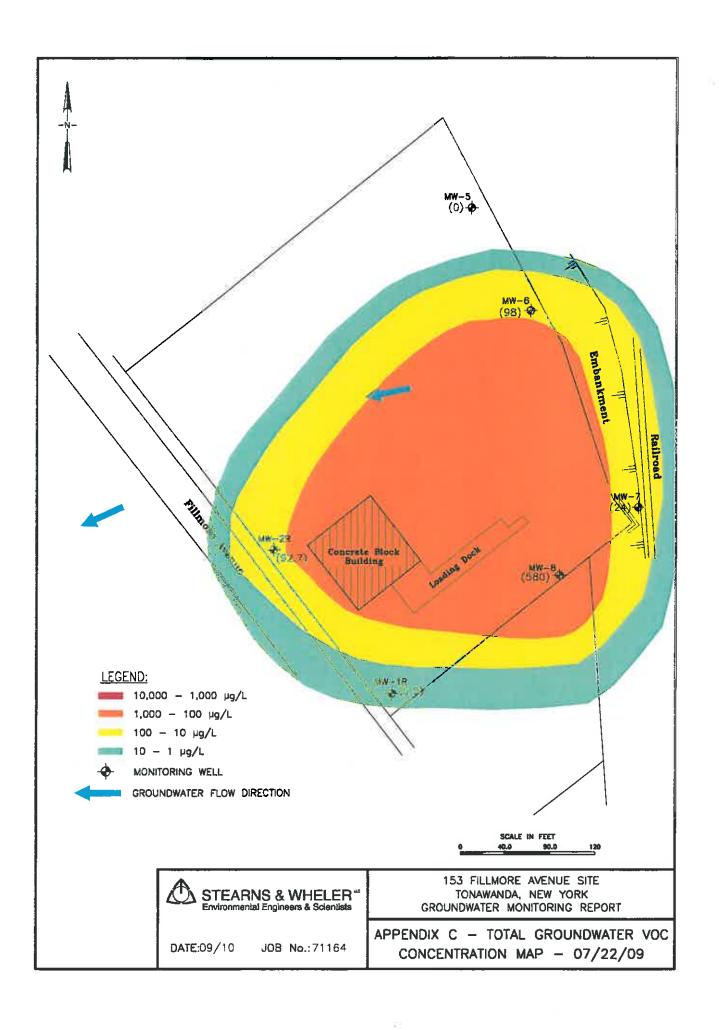


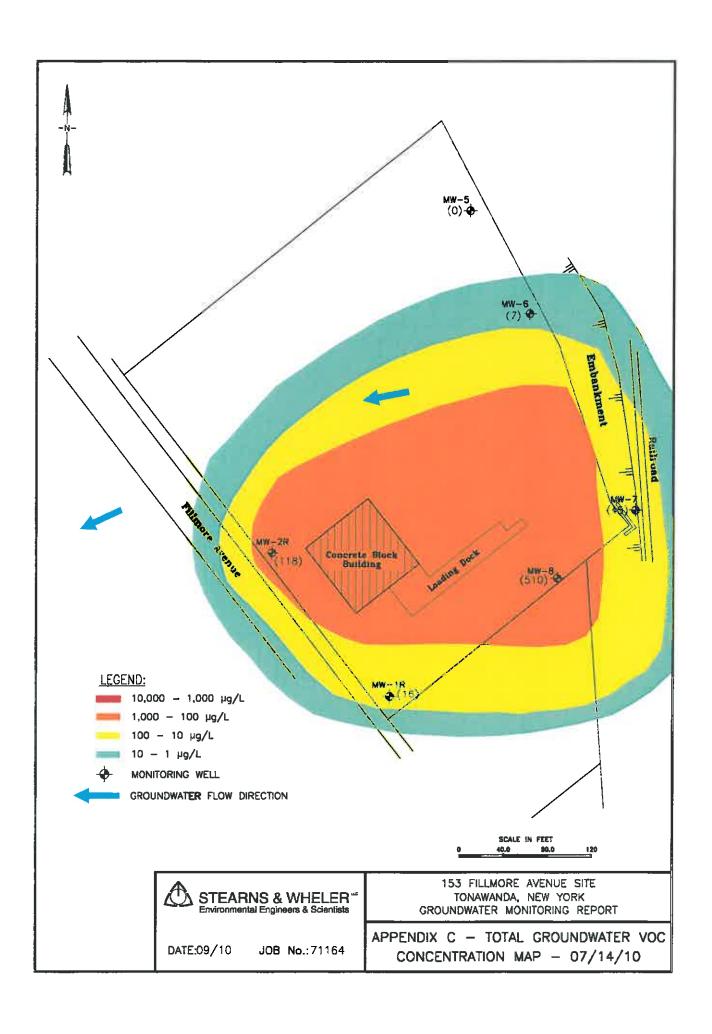


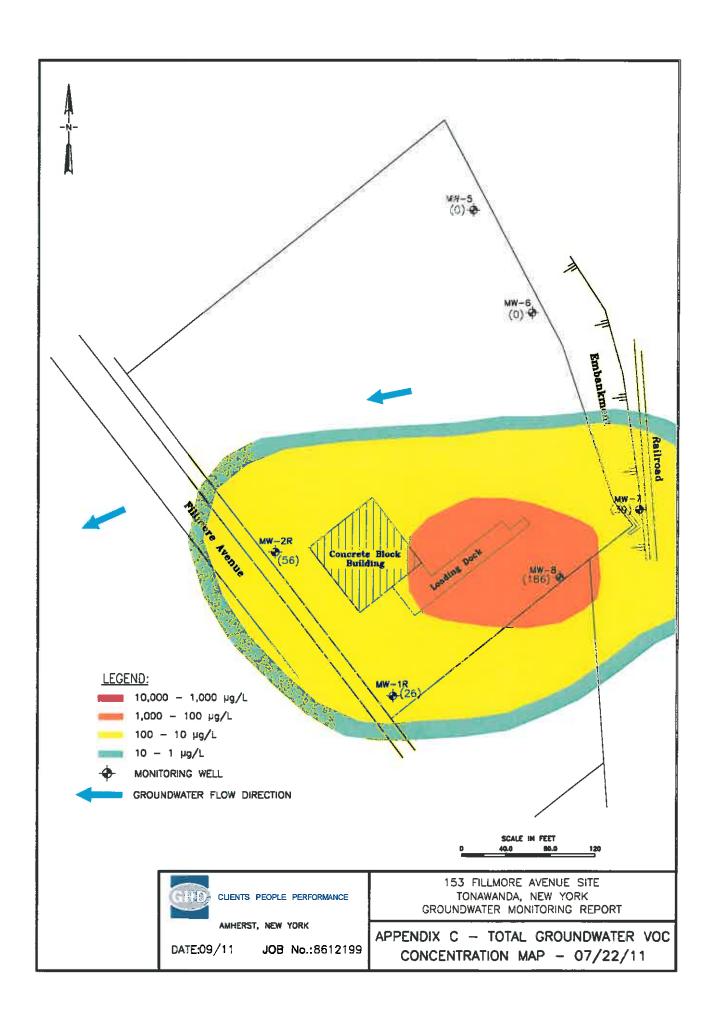












APPENDIX D

Data Usability Summary Report



Data Usability Summary Report

Vali-Data of WNY, LLC 1514 Davis Rd. West Falls, NY 14170

153 Fillmore Ave.
Upstate Laboratories SDG#U1207590
August 28, 2012
Sampling date: 07/24/12

Prepared by: Jodi Zimmerman Vali-Data of WNY, LLC 1514 Davis Rd. West Falls, NY 14170

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Stearns and Wheler GHD, project located in the 153 Fillmore Ave., SDG#U1207590, Upstate laboratories, submitted to Vali-Data of WNY, LLC on August 21, 2012. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocol and USEPA National Functional Guidelines. The laboratory performed the analyses using USEPA methods, 8260 (Volatile Organics), 8270 (Semi-Volatile Organics), 200.7, 200.8 (Inorganics) and 245.2 (Mercury).

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Internal Standard (IS) Area Performance
- -Surrogate Spike Recoveries
- -Method Blank
- -Field Duplicate Sample Precision
- -Laboratory Control Samples
- -MS/MSD
- -Compound Quantitation
- -Initial Calibration
- -Continuing Calibration
- -GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use but are qualified below in Holding Times, Surrogate Spike Recoveries and MS/MSD.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met except no MDL were included in the original package. Those pages are attached. Data was not reported to 3 significant figures due to software issues. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met except the pH for samples MW-1, MW-2 and ULI Trip blank were outside QC limits upon receipt by Upstate Laboratories. The samples were run outside of the holding times, due to the elevated pH, so detected target analytes in these samples should be qualified as estimated and undetected target analytes should be qualified as unusable.

INTERNAL STANDARD (IS)

All criteria were met.

SURROGATE SPIKE RECOVERIES

All criteria were met except the %Rec of 1,2-Dichloroethane-d₄ was outside QC limits, high, in MW-2, MW-5 and ULI Trip Blank. Associated target analytes detected in these samples should be qualified as estimated.

METHOD BLANK

All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD

All criteria were met except the %Rec of Chlorobenzene was outside QC limits; low, in MW-1MS. The %RPD of all monitored target analytes was outside QC limits. Detected spiked target analytes should be qualified as estimated.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met except the RRF of Trichloroethene was outside ASP QC limits. ASP allows for up the two target analytes to be outside QC limits without further action.

CONTINUING CALIBRATION

All criteria were met except the RRF of Trichloroethene was outside ASP QC limits in the continuing calibration, CCV-74282 and CCV2. ASP allows for up the two target analytes to be outside QC limits without further action.

GC/MS PERFORMANCE CHECK

All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Internal Standard (IS) Area Performance
- -Surrogate Spike Recoveries
- -Method Blank
- -Field Duplicate Sample Precision
- -Laboratory Control Samples
- -MS/MSD
- -Compound Quantitation
- -Initial Calibration
- -Continuing Calibration
- -GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use but are qualified below in Internal Standard, Laboratory Control Samples, MS/MSD and Continuing Calibration.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met except no MDL were included in the original package. Those pages are attached. Data was not reported to 3 significant figures due to software issues. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met.

INTERNAL STANDARD (IS)

All criteria were met except the area count for Perylene-d₁₂ was outside QC limits low in samples MW-2, MW-5, MW-6, MW-7, MW-8, Dupe @ MW-6 and the associated reruns of these samples. Associated target analytes in these samples should be qualified as estimated.

SURROGATE SPIKE RECOVERIES

All criteria were met.

METHOD BLANK

All criteria were met except two TICs were detected in MB-34214.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met except the number of TICs in MW-6 was not consistent with Dupe @ MW-6.

LABORATORY CONTROL SAMPLES

All criteria were met except the %Rec of Pentachlorophenol was outside QC limits, low, and 2,4-Dinitrotoluene was outside QC limits, high, in LCS-34214 performed on 7/30/12. These target analytes were not detected in the samples so no further action is required.

The %Rec of 2,4-Dinitrophenol was outside QC limits, high, in LCS-34214 performed on 8/1/12. Pentachlorophenol was qualified as estimated in LCS034214 performed on 7/30/12.

MS/MSD

All criteria were met except the %Rec of 2,4-Dinitrotoluene was outside QC limits, high in MW-1MSD. The laboratory control samples exhibited consistent results, so 2,4-Dinitrotoluene should be qualified as estimated in the samples in which it was detected. Pentachlorophenol was qualified as estimated in MW-1MSD due to a concentration above the MDL and below the reporting limit.

MW-1MS was not spiked so all %Rec and %RPD's were outside QC limits.

COMPOUND QUANTITATION

All criteria were met except the number of TIC's in the original running of the samples; MW-2, MW-6, MW-7, MW-8 and Dupe @ MW-6 was not consistent with the number of TIC's in the rerunning of these samples. Pyrene was detected in MW-2 but not in the rerunning of MW-2.

INITIAL CALIBRATION

All criteria were met except some target analytes were not recorded on Form 6. Results for the missing target analytes were recorded on the raw data and did fall within QC limits.

CONTINUING CALIBRATION

All criteria were met except some target analytes were not recorded on the Form 7's. Results

for the missing target analytes were recorded on the raw data and did fall within QC limits. The % D of Pentachlorophenol in continuing calibration file #J07346 was outside ASP outer QC limits and should be qualified as estimated in all associated samples, blanks and spikes. The % D of 4-Nitrophenol in continuing calibration file #J07379 was outside ASP outer QC limits and should be qualified as estimated in all associated samples, blanks and spikes.

The %D of Benzo(g,h,i)perylene was outside QC limits in continuing calibration file #J07379. ASP allows for up to four target analytes to be outside QC limits without further action if they do not exceed the outer QC limits.

GC/MS PERFORMANCE CHECK

All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Method Blank
- -Laboratory Control Sample
- -MS
- -Duplicate
- -Field Duplicate
- -Serial Dilution
- -Compound Quantitation
- -Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use but are qualified below in MS, Serial Dilution and Calibration.

DATA COMPLETENESS

All criteria were met.

NARATIVE AND DATA REPORTING FORMS

All criteria were met except a couple of raw data pages were not included in the original

package. Those pages are attached.

Ca and Fe were not recorded on Form 6, Duplicates. An updated page is attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All criteria were met except the pH for samples MW-1, MW-2 and ULI Trip blank were outside QC limits upon receipt by Upstate Laboratories. Upstate Laboratories adjusted the pH to <2.

METHOD BLANK

All criteria were met except Fe and Zn were detected in CCB5 in run #74357. No further action is required because these target analytes were not being monitored at that time.

LABORATORY CONTROL SAMPLE

All criteria were met.

MS

All criteria were met except the %Rec all target analytes except Al were outside QC limits in MW-1S.

The %Rec of all metals monitored in the Post Digest Spike were outside QC limits except Ba, Cr, Cu, Ni and V. No further action is required for Ba, Cr, Cu, Ni and V.

The %Rec of As and Pb was <30% in both MW-1S and the post digest spike, so those metals should be qualified as estimated low, if detected, or unusable, if undetected.

The %Rec of Be, Cd, Co and Ag was outside QC limits, low but >30%, in MW-1S and the post digest spike, so these metals should be qualified as estimated low, if detected, or estimated, if undetected.

The %Rec of Mn and Fe in MW-1S was <30 % and no post digest spike recovery was recorded, so those metals should be qualified as estimated low, if detected, or unusable, if undetected.

DUPLICATE

All criteria were met.

FIELD DUPLICATE

All criteria were met.

SERIAL DILUTION

All criteria were met except the %D of Ca and Fe were outside QC limits. The concentrations of Fe in the initial sample and serial dilution were >50x MDL so Fe was qualified with an 'E' in the samples and should be considered estimated.

COMPOUND QUANTITATION

All criteria were met.

CALIBRATION

All criteria were met the %Rec of Ni was outside QC limits, high, in CCV1, CCV2, CCV3, CCV4 and CCV5 in run #74357. The %Rec of Zn was outside QC limits, high in CCV3, CCV4 and CCV5 in run #74357. The %Rec of Ca was outside QC limits, high in CCV5 in run #74357. The %Rec of Ni was outside QC limits, high in CCV1, CCV2 and CCV3 in run #74385. The %Rec of Tl was outside QC limits, high in the ICV, CCV1, CCV2, CCV3 and CCV4 in run #74204. All associated detects should be qualified as estimated high.

MERCURY

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Method Blank
- -Laboratory Control Samples
- -MS/MSD
- -Duplicate
- -Field Duplicate
- -Compound Quantitation
- -Calibration

The items listed above were technically in compliance with the method and SOP criteria with any exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

CHAIN OF CUSTODY

All criteria were met.

HOLDING TIMES

All holding times were met. (See Holding Times, above in 'Metals')

METHOD BLANK

All criteria were met.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD

All criteria were met.

DUPLICATE

All criteria were met.

FIELD DUPLICATE

All criteria were met.

COMPOUND QUANTITATION

All criteria were met.

CALIBRATION

All criteria were met.

APPENDIX E

Part 375 Soil Cleanup Objectives



(b) Restricted use soil cleanup objectives.

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection	Protection		
		Residential	Restricted- Residential	Commercial	Industrial	of Ecological Resources	of Ground- water		
Metals									
Arsenic	7440-38-2	16 ^f	16 ^f	16 ^f	16 ^f	13 ^f	16 ^f		
Barium	7440-39-3	350 ^f	400	400	10,000 ^d	433	820		
Beryllium	7440-41-7	14	72	590	2,700	10	47		
Cadmium	7440-43-9	2.5 ^f	4.3	9.3	60	4	7.5		
Chromium, hexavalent h	18540-29-9	22	110	400	800	1°	19		
Chromium, trivalenth	16065-83-1	36	180	1,500	6,800	41	NS		
Copper	7440-50-8	270	270	270	10,000 ^d	50	1,720		
Total Cyanide h		27	27	27	10,000 ^d	NS	40		
Lead	7439-92-1	400	400	1,000	3,900	63 ^f	450		
Manganese	7439-96-5	2,000 ^f	2,000 ^f	10,000 ^d	10,000 ^d	1600 ^f	2,000 ^f		
Total Mercury		0.81 ^j	0.81 ^j	2.8 ^j	5.7 ^j	0.18 ^f	0.73		
Nickel	7440-02-0	140	310	310	10,000 ^d	30	130		
Selenium	7782-49-2	36	180	1,500	6,800	3.9 ^f	4 ^f		
Silver	7440-22-4	36	180	1,500	6,800	2	8.3		
Zinc	7440-66-6	2200	10,000 ^d	10,000 ^d	10,000 ^d	109 ^f	2,480		
PCBs/Pesticides									
2,4,5-TP Acid (Silvex)	93-72-1	58	100ª	500 ^b	1,000°	NS	3.8		
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 °	17		
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 °	136		
4,4'- DDD	72-54-8	2.6	13	92	180	0.0033 °	14		
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19		
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04 ^g	0.02		
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09		
Chlordane (alpha)	5103-71-9	0.91	4.2	24	47	1.3	2.9		

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection	Protection of
		Residential	Restricted- Residential	Commercial	Industrial	of Ecological Resources	Ground- water
delta-BHC	319-86-8	100°	100ª	500 ^b	1,000°	0.04 ^g	0.25
Dibenzofuran	132-64-9	14	59	350	1,000°	NS	210
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1
Endosulfan I	959-98-8	4.8 ⁱ	24 ⁱ	200 ⁱ	920 ⁱ	NS	102
Endosulfan II	33213-65-9	4.8 ⁱ	24 ⁱ	200 ⁱ	920 ⁱ	NS	102
Endosulfan sulfate	1031-07-8	4.8 ⁱ	24 ⁱ	200 ⁱ	920 ⁱ	NS	1,000°
Endrin	72-20-8	2.2	11	89	410	0.014	0.06
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1
Polychlorinated biphenyls	1336-36-3	1	1	1	25	1	3.2
Semivolatiles							
Acenaphthene	83-32-9	100ª	100ª	500 ^b	1,000°	20	98
Acenapthylene	208-96-8	100ª	100ª	500 ^b	1,000°	NS	107
Anthracene	120-12-7	100ª	100°	500 ^b	1,000°	NS	1,000°
Benz(a)anthracene	56-55-3	1 ^f	Į ^f	5.6	11	NS	1 ^f
Benzo(a)pyrene	50-32-8	1 ^f	1 ^f	1 ^f	1.1	2.6	22
Benzo(b)fluoranthene	205-99-2	1 ^f	1 ^f	5.6	11	NS	1.7
Benzo(g,h,i)perylene	191-24-2	100ª	100ª	500 ^b	1,000°	NS	1,000°
Benzo(k)fluoranthene	207-08-9	1	3.9	56	110	NS	1.7
Chrysene	218-01-9	$1^{\mathbf{f}}$	3.9	56	110	NS	1 ^f
Dibenz(a,h)anthracene	53-70-3	0.33°	0.33°	0.56	1.1	NS	1,000°
Fluoranthene	206-44-0	100ª	100ª	500 ^b	1,000°	NS	1,000°
Fluorene	86-73-7	100ª	100ª	500 ^b	1,000°	30	386
Indeno(1,2,3-cd)pyrene	193-39-5	0.5 ^f	0.5 ^f	5.6	11	NS	8.2
m-Cresol	108-39-4	100ª	100ª	500 ^b	1,000°	NS	0.33°
Naphthalene	91-20-3	100ª	100°	500 ^b	1,000°	NS	12

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of	Protection of
		Residential	Restricted- Residential	Commercial	Industrial	Ecological Resources	Ground- water
o-Cresol	95-48-7	100ª	100ª	500 ^b	1,000°	NS	0.33°
p-Cresol	106-44-5	34	100ª	500 ^b	1,000°	NS	0.33°
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8°	0.8°
Phenanthrene	85-01-8	100ª	100ª	500 ^b	1,000°	NS	1,000°
Phenol	108-95-2	100ª	100ª	500 ^b	1,000°	30	0.33°
Pyrene	129-00-0	100ª	100ª	500 ^b	1,000°	NS	1,000°
Volatiles	-						
1,1,1-Trichloroethane	71-55-6	100ª	100ª	500 ^b	1,000°	NS	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27
1,1-Dichloroethene	75-35-4	100²	100ª	500 ^b	1,000°	NS	0.33
1,2-Dichlorobenzene	95-50-1	100ª	100ª	500 ⁶	1,000°	NS	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02 ^f
cis-1,2-Dichloroethene	156-59-2	59	100ª	500 ^b	1,000°	NS	0.25
trans-1,2-Dichloroethene	156-60-5	100°	100ª	500 ^b	1,000°	NS	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1°	0.1°
Acetone	67-64-1	100ª	100 ^b	500 ^b	1,000°	2.2	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06
Butylbenzene	104-51-8	100ª	100ª	500 ^b	1,000°	NS	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76
Chlorobenzene	108-90-7	100ª	100ª	500 ^b	1,000°	40	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1
Hexachlorobenzene	118-74-1	0.33°	1.2	6	12	NS	3.2
Methyl ethyl ketone	78-93-3	100ª	100ª	500 ^b	1,000°	100ª	0.12

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS]	Protection of	Protection of	Protection		
	Number	Residential	Restricted- Residential	Commercial	Industrial	Ecological Resources	Ground- water
Methyl tert-butyl ether	1634-04-4	62	100°	500 ^b	1,000°	NS	0.93
Methylene chloride	75-09-2	51	100°	500 ^b	1,000°	12	0.05
n-Propylbenzene	103-65-1	100ª	100²	500 ^b	1,000°	NS	3.9
sec-Butylbenzene	135-98-8	100ª	100ª	500 ^b	1,000°	NS	11
tert-Butylbenzene	98-06-6	100°	100ª	500 ^b	1,000°	NS	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3
Toluene	108-88-3	100ª	100°	500 ^{b.}	1,000°	36	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6
1,3,5- Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02
Xylene (mixed)	1330-20-7	100ª	100ª	500 ^b	1,000°	0.26	1.6

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD).

Footnotes

^a The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

^b The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

[°] The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

^d The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

^e For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

^f For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

g This SCO is derived from data on mixed isomers of BHC.

^h The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

¹ This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

^j This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See TSD Table 5.6-1.