FINAL
SITE CHARACTERIZATION REPORT
REGION 8 DRY CLEANERS – GROUP 2
ASSOCIATED TEXTILE
RENTAL SERVICES SITE

SITE NO. 8-08-041

WORK ASSIGNMENT NO. D004434-5

Prepared for:

New York State Department of Environmental Conservation

Albany, New York

Prepared by:

MACTEC Engineering and Consulting, PC
Portland, Maine

MACTEC: 3612062059

JANUARY 2008

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GLOSSARY OF ACRONYMS AND ABBREVIATIONS

1,1,1-TCA	1,1,1-tricholoroethane
ASP	Analytical Services Protocol
ASTM	American Standards of Testing and Measurements
ATRS	Associated Textile Rental Services
bgs	below ground surface
Chemtech	Chemtech Consulting Group, Inc.
cis-1,2-DCE	cis-1,2-dichoroethene
DUSR	Data Usability Summary Report
EDR	Environmental Data Resources, Inc.
^{o}F	degrees Fahrenheit
FDR	Field Data Record
GC	Gas Chromatograph
MACTEC	MACTEC Engineering and Consulting, P.C.
mg/kg	milligrams per kilogram
msl	mean sea level
NYCRR	New York Codes, Rules, and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	State of New York Department of Health
OBG	O'Brien and Gere Engineers, Inc.

GLOSSARY OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

PCE	tetrachloroethene
PID	photoionization detector
PVC	polyvinyl chloride
QC	Quality Control
Report	Site Characterization Report
SC	Site Characterization
SCGs	standards, criteria, or guidance
SCO	soil cleanup objectives
Site	Associated Textile Rental Services Site
SOP	standard operating procedure
SVOCs	semi-volatile organic compounds
TCE	trichloroethene
TCL	Target Compound List
TICS	tentatively identified compounds
µg/L	micrograms per Liter
$\mu g/m^3$	micrograms per cubic meter
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
WA	Work Assignment

1.0 INTRODUCTION

MACTEC Engineering and Consulting, P.C. (MACTEC), is submitting this Site Characterization Report (Report) to the New York State Department of Environmental Conservation (NYSDEC). This Report addresses the Site Characterization (SC) at the former Associated Textile Rental Services (ATRS) site (Site) in the City of Elmira, New York (Figure 1.1). This Report was prepared in response to Work Assignment (WA) No. D0003826-29 (NYSDEC, 2006), and in accordance with the requirements of the July 1997 Superfund Standby Contract No. D003826 between the NYSDEC and MACTEC. The field work and report was conducted under WA# D0004434-5 and the April 2005 Superfund Standby Contract No. D0004434 between the NYSDEC and MACTEC.

This is one of six site-specific SC Reports for the Region 8 Dry Cleaners – Group 2 multiple SCs WA. The other five SC Reports address the sites listed below:

- Ruddick's Dry Cleaners (Site No. 8-08-037)
- Universal Dry Cleaners (Site No. 8-08-040)
- Up to Date Cleaners (Site No. 8-26-019)
- HTS Coin Operated Laundry and Dry Cleaners (Site No. 8-08-038)]
- Rolling Plains (Site No. 8-28-138 – replaces Ace Cleaners)

The former ATRS site, Site No. 8-08-041, is currently listed as a potential hazardous waste site, or "P" site, by the NYSDEC, because insufficient information exists to determine whether wastes were disposed of at the Site and whether, if present, those wastes pose a potential significant threat to public health or the environment (New York State (NYS), 2006).

The purpose of the SC is to provide information to be used by the NYSDEC to reclassify the Site to one of the following categories:

Class 1	Hazardous waste constitutes a significant threat to public health or the environment, as described in Title 6 of the New York Codes, Rules, and Regulations (NYCRR) Part 375 (NYS, 2006); and the significant threat to public health or the environment is causing, or presents an imminent danger of causing, either irreversible or irreparable damage to the environment.

Class 2	Hazardous waste sites presenting a significant threat to public health or the environment; as defined in 6 NYCRR 375 (NYS, 2006) .
Class 3	Hazardous waste sites at which contamination does not presently constitute a significant threat to public health or the environment.
Not Classified	Sites where hazardous waste disposal is not documented.

To complete its reclassification, the NYSDEC requires information to establish the following:

- The existence of documented hazardous waste disposal, as defined in Title 6 of the NYCRR Part 371 (NYS, 1999a).
- The Site's significance with respect to the threat it poses to public health and the environment as defined in 6 NYCRR Part 375 (NYSDEC, 2006).
- Identification of contaminant source.

MACTEC collected reclassification documentation and is presenting it to the NYSDEC so it can recommend follow up action for the Site (i.e., reclassify, delist, or perform additional investigation).

The WA was divided into three tasks. Task 1-Work Plan Development, included a search of state and county site records, and performance of a site inspection to develop information necessary for reclassification or delisting. Task 1 activities did not develop adequate data on which to base a delist or reclassification recommendation. Therefore, Task 2, Subsurface Investigation, was conducted. Task 3-Reporting, is the preparation of this Report. Resources used to prepare this Report include: (1) information provided in the WA, (2) appropriate guidelines in the NYSDEC Draft DER-10 Guidance (NYSDEC, 2002), (3) results of previous investigations, if applicable, and (4) results of the SC investigation.

This report is divided into five sections:

Section 1 - Introduction to the report.

Section 2- Describes the Site background and physical setting, including a summary of previous investigations.

Section 3 - Presents the work conducted during the field investigations.

Section 4 - Presents results of the field investigation.

Section 5 - Presents an investigation summary.

2.0 SITE BACKGROUND AND PHYSICAL SETTING

On May 3, 2006, MACTEC personnel reviewed available records from the NYSDEC office in Albany, New York, and visited the City of Elmira and Chemung County New York offices. Information was also collected from the Site owner by the NYSDEC. As part of this review, MACTEC ordered a copy of an Environmental Data Resources, Inc. (EDR) report which provides a listing of federal and state governmental information pertaining to potential and documented environmental impacts, both at the Site and within the American Standards of Testing and Measurements (ASTM) recommended search radii. Complete lists of all recommended ASTM record searches for standard due diligence requirements are included in the EDR report which was provided under separate cover. This information was reviewed to support a Site classification, and to help prepare the scope of work for the SC field investigations. The information collected from these sources is summarized below.

2.1 SITE LOCATION

The former ATRS site is located at 714 Baldwin Street in an area zoned as IA, light industrial, in the City of Elmira, Chemung County, New York. Vacant property borders the Site to the north (717-721 Dickson Street Brownfield Site-former junkyard) and south. The former office and storage yard for Ridgeline Construction lies to the east of the Site across Dickson Street, and the Diamond Cleaners Site (a Class 2 hazardous waste site, Site No. 8-08-030) lies to the east of the former Ridgeline Construction, approximately 300 feet east of the Site. Industrial property lies to the west of the Site, across Clemens Parkway (former railroad right of way and round house, as well as reported historic location of Elmira Canal). The Site property consists of approximately 0.75 acres. The Site contains an approximately 6,000 square foot warehouse building and a small driveway. The remainder of the property is grass covered. The Sullivan Street Public Supply Wells are located approximately 5,000 feet north of the Site.

2.2 SITE HISTORY

Based on a 1903 Sanborn Fire Insurance map, the Site property contained residential dwellings. The 1931 Sanborn map states that the property was occupied by Allen's Cash Paint Company. The

1931 Sanborn shows above ground gasoline tanks on the northern portion of the property, and a warehouse on the southwestern portion of the property (same location as current warehouse at Site). The warehouse was reportedly used to store alcohol and oils. The 1950 Sanborn shows the current storage shed on the property with a "built" date of 1950. The 1970 Manning City Directory lists the property as still Allen's Cash Paint Company. The above ground gasoline tanks were removed on the 1988 Sanborn map, and the 1990 Johnsons City Directory lists the property as occupied by ATRS. The NYSDEC indicated that ATRS used the Site for fueling transportation trucks. The building is currently vacant and, based on visible signage, the property is reportedly for sale.

2.3 PREVIOUS INVESTIGATIONS

Fuel related compounds and chlorinated solvents have been detected in Site groundwater. The fuel related compounds are being addressed under the NYSDEC Spills numbers 9210608 and 9803233. The source of chlorinated solvents detected in Site monitoring wells MW-8 (trichloroethene [TCE] at 225 micrograms per liter [µg/L] and tetrachloroethene [PCE] at 1.77 µg/L) and MW-9 (TCE at 18.8 µg/L and PCE at 32.2 µg/L) is unknown. No chlorinated solvents were detected in Site related monitoring wells reportedly up-gradient of these two wells (O'Brien and Gere [OBG], 2006). A report dated April of 2006 by OBG for the former Site owner indicates that numerous potential off-site sources of both the chlorinated solvent and fuel related solvents exist (see Appendix A).

The Site is also of concern based on the presence of chlorinated solvents in the City of Elmira's Sullivan Street Supply Wells. Although other sources of chlorinated solvents exist in the greater Horseheads/Elmira valley, it is not known if this Site is contributing to the regional groundwater contamination. Chlorinated solvents (primarily TCE) were first detected in the Sullivan supply wells in the mid 1980's. Samples collected between 1981 and 1992 indicated concentrations of TCE in the Sullivan Street Wells ranging from 5.0 to 10.3 µg/L, in relation to a NYS groundwater standard of 5 µg/L (NYSDOH, 1994). These wells are located approximately 1 mile north of the Site, on the west side Newtown Creek (Figure 1.1). Although these wells are located potentially up-gradient of the Site, it is not known how previous pumping of these wells affected area groundwater flow.

There are two supply wells in close proximity to each other. These wells can each produce approximately 3 million gallons per day. The 18-inch diameter wells have casing set to approximately 60 feet below ground surface (bgs), with shutter screen down to 98 feet bgs. Although an air stripper was installed in the late 1990's, the wells are currently not used (LaDouce, 2005). They are reportedly turned on twice per year and sampled.

2.4 PHYSICAL SETTING

Topography

The Site is located in the Newtown Creek Valley, which runs north-south, joining the Chemung River Valley to the south, which runs east-west. The Site is located approximately 0.6 miles northeast of the center of the City of Elmira, New York (Figure 1.1) at approximately 862 feet above mean sea level (msl) and is relatively flat. The valley slopes slightly down to the south and east. Newtown Creek is located at an elevation of approximately 860 feet above msl 3500 feet east of the Site. Newtown Creek runs south, joining the Chemung River in one mile. The Chemung River is located at an elevation of approximately 835 feet above msl at the confluence with Newtown Greek. The topography to the west of the Site is relatively flat for approximately 1.5 miles, and then rises to a ridge at 1400 feet above msl approximately 2.0 miles from the Site. The topography east of Newtown Creek rises sharply to a ridge at 1450 feet above msl approximately 1.6 miles from the Site.

Climate

The climate of the area is characterized by moderately warm summers and cold winters. Mean monthly temperatures range from 24 degrees Fahrenheit (°F) in January to 70°F in July. Average annual precipitation is 35 inches. Average annual snowfall is 42 inches (National Climatic Data Center, 2004).

Surface Water Hydrology

Surface drainage from the Site generally follows the topography, flowing toward low areas and then infiltrating into the ground. Heavy rains may induce surface water to flow from the Site to storm drains located on Dickson and Baldwin Streets.

Groundwater Hydrology

The Newtown Creek and eventually the Chemung River are the regional groundwater discharge areas. Groundwater at the Site was present from approximately 13 to 14 feet bgs, and is interpreted to flow west to south-west.

Geology

Overburden at the Site consists of lacustrine silts, sands and gravels. Surficial geology is mapped as oxidized, non calcareous, fine sand to gravel (Muller, 1986). Based on regional geologic mapping (Rickard and Fisher, 1970) bedrock is expected to consist of shale and siltstones associated with the Upper Devonian West Falls Group; specifically, the Beers Hill Shale, Grimes Siltstone, Dunn Hill, Millport, and Moreland Shales (Rickard and Fisher, 1970).

Site Walkover

On May 3, 2006 the MACTEC Site Lead, Chuck Staples, and the NYSDEC Project Manager, Matthew Dunham, conducted a walkover of the Site area.

The Site walkover consisted of viewing the former ATRS property (from the outside), and the surrounding neighborhood to assess possible contamination sources and the logistical concerns for the field program. MACTEC personnel documented the walkover with photographs (Appendix B).

Visible sources of contamination (e.g., leaking drums) were not observed, however, detailed inspections of potential sources, including Site soils, were not conducted during the Site walkover. Additional information for the purpose of identifying potential sources was obtained during Task 2.

2.5 FILE REVIEW

MACTEC reviewed files from various state and local agency offices, as well as the EDR Site report, to develop information to support a reclassification or delisting, and to help prepare the scope of work for future SC field investigations.

2.6 SUMMARY OF DATA RECORDS SEARCH AND ASSESSMENT FINDINGS

Under federal and state regulations a solid waste may be regulated as a hazardous waste if it is a material included in one of the United States Environmental Protection Agency's (USEPA) or the NYSDEC's lists of hazardous wastes. If a material is regulated because of its inclusion on a federal or state list, it is commonly referred to as a "listed hazardous waste." A waste may also be regulated under the Resource Conservation and Recovery Act as a "characteristic hazardous waste" if it exhibits one of the characteristics of toxicity, corrosivity, reactivity, or flammability.

Results of sampling and analysis of the Site wells, as well as the Sullivan Street Supply Wells indicated the presence of chlorinated solvents (primarily TCE and PCE) in groundwater. Spent chlorinated solvents not originating from household sources, including TCE and PCE are included on both the USEPA's and the NYSDEC's lists of hazardous wastes. Under 6 NYCRR Part 371.4(a)(1), these spent solvents constitute hazardous waste from non-specified sources. Disposal of these chlorinated solvents has been confirmed by available analytical results from the Site and the Sullivan Street Wells, but the source area has not been identified.

As defined by 6 NYCRR Part 375, significant threat can be established by documenting a contravention of environmental standards. Surface water, soil and groundwater are the only media for which NYS has promulgated standards. Under NYS Water Quality Regulations (6 NYCRR Parts 701 to 705) the state has set numeric standards that are the maximum concentration of compounds in groundwater and surface water that protect public health and/or the environment (NYS, 1999b). In addition, soil standards have been promulgated under the revised 6 NYCRR Part 375 Regulations (NYS, 2006).

Analytical data has been collected from the Site and indicates that groundwater contains fuel-related compounds and chlorinated solvents; however, it is not known if the Site is the source of

the TCE and PCE contamination detected in the area and/or if the Site poses a significant threat. The purpose of the SC investigation is to:

- collect the data necessary to verify the likelihood of uncontrolled waste disposal,
- determine if potential contamination is present on the Site and is migrating off-site, and
- provide sufficient information to allow the NYSDEC to re-classify the Site.

3.0 SCOPE OF WORK

To reclassify the Site, the NYSDEC requires data documenting hazardous waste disposal as set forth in 6 NYCRR Part 371, and the potential significant threat to human health and the environment as defined by 6 NYCRR Part 375. Because data necessary to determine if the chlorinated compounds present in the Site groundwater and the Sullivan Street Wells originated from the Site or if potential contamination present in Site media are migrating off-site and pose a potential significant threat to human health and the environment were not available in federal and state files reviewed during Task 1, additional field investigations were performed as described below. Task 2 activities included the Field Investigation. The objective of Task 2 activities was to determine whether the volatile organic compounds (VOCs) detected in the city supply well originated from the Site, or whether potential on-site VOC contamination is migrating off-site. Task 3 is the preparation and distribution of this Report.

TASK 2 - FIELD INVESTIGATIONS

Field investigations included:

1) Existing Monitoring Well Sampling
2) Geoprobe® Soil, Soil Vapor and Groundwater Sampling – On-site Groundwater VOC Analysis
3) Microwell Installation
4) Well Development
5) Three rounds of Synoptic Groundwater Measurements
6) Sub-Slab Soil Vapor Sampling

The existing monitoring well sampling, subsurface soil, soil vapor and groundwater sample collection, groundwater microwell installation and well development activities were conducted from November 6 through November 10, 2006. Based on field results, seven additional borings were completed on November 17, 2006 and 18 additional borings were completed from August 27 to 29 2007. The sub-slab soil vapor sampling was conducted December 19, 2006. Sample locations are shown on Figures 3.1 and 3.2.

The synoptic groundwater measurement rounds were conducted on November 16, 2006, May 9, 2007, and August 29, 2007. A Site land survey was completed by Joseph Lu Engineers on February 6, 2007.

3.1 GENERAL FIELD ACTIVITIES

The following subsections describe the activities conducted during the field investigation, including mobilization, health and safety, and decontamination.

3.1.1 Mobilization

Upon receiving the NYSDEC authorization to begin fieldwork, MACTEC and its subcontractors mobilized to the Site and began the field exploration program. Field investigations were conducted from November 6, 2006 through November 10, 2006. An additional day of field work was conducted on November 17, 2006, and three additional days of field work were conducted from August 27 to 29, 2007.

A field team orientation meeting was held on-site with MACTEC personnel to familiarize field workers with Site history, health and safety requirements, equipment calibration procedures, and other field procedures.

3.1.2 Health and Safety

Field investigation activities were conducted at Level D personal protection. Based on photoionization detector (PID) readings, no upgrades to personal protection were warranted.

3.1.3 Decontamination

Sampling methods and equipment for this field program were chosen to minimize investigation derived wastes and minimize possibility of cross contamination. Disposable sampling equipment was used as much as practical to minimize decontamination time and water disposal. Non disposable sampling equipment was decontaminated before and after the collection of each sample.

Non disposable sampling equipment was decontaminated by scrubbing the sample collection equipment with potable water and Liquinox, rinsing with potable water, rinsing with deionized water, and then allowing the equipment to air dry. Decontamination fluids did not exhibit visual or olfactory evidence of contamination and were released on-site to the ground surface in the area of decontamination, allowing the liquid to infiltrate into the soil and not run off-site.

3.1.4 Investigation Derived Wastes

The field investigation did not result in the generation of wastes that were considered hazardous (i.e., no visual or olfactory signs of contamination, and no PID readings above 5 parts per million were detected). Therefore drill cuttings and purge water resulting from the investigation were placed on the ground surface in the area of exploration and personal protective equipment and disposable sampling equipment were double bagged and disposed of as non-hazardous refuse.

3.2 EXISTING MONITORING WELL SAMPLING

To assess groundwater conditions at and adjacent to the Site, fifteen existing monitoring wells and two existing microwells were sampled. These included ten monitoring wells installed on the Former ATRS property (MW-1R and MW-1 through MW-9) and five monitoring wells installed by MACTEC on the adjacent Diamond Cleaners property (DCMW-1 through DCMW-5). Two microwells were also sampled on the Diamond Cleaners property (DCGW-2 and DCGW-10). These existing monitoring wells were sampled in accordance with the USEPA “low flow” guidance. Groundwater parameters including water levels, turbidity, temperature, dissolved oxygen, specific conductance, pH and redox potential were recorded in a field log and on a field data record (FDR). All low flow sampling requirements were met while sampling these existing wells. Groundwater FDRs are available in Appendix C.

One sample was collected from each existing well and screened on-site for VOCs by USEPA standard operating procedure (SOP) # 2109, Revision 0.0 using an on-site Photovac Gas Chromatograph (GC). On-site screening analysis included Excel Spreadsheet as deliverables.

All samples were submitted to Chemtech Consulting Group, Inc. (Chemtech) and analyzed for target compound list (TCL) VOCs using USEPA OLM04.3 methods as described in the NYSDEC

Analytical Services Protocol (ASP) of June 2000. In addition, the ten monitoring wells sampled from the former ATRS site (MW-1R, and MW-1 through MW-9) were submitted to Chemtech for semi-volatile organic compounds (SVOCs) analyses using USEPA OLM04.3 Methods. Off-site laboratory analysis included Category B deliverables.

3.3 GEOPROBE® BORINGS AND SAMPLING

Field investigation activities included the drilling of Geoprobe® borings, the collection and analysis of groundwater, soil, and soil vapor samples and the installation of microwells. Geoprobe® sampling was conducted over a five day period from November 6, 2006 to November 10, 2006. Additional days of Geoprobe® work were added to fill in data gaps on November 17, 2006, and from August 27 to 29, 2007. The purpose of the activities was to provide groundwater data for comparison to NYS Class GA Groundwater Quality Standards set forth under 6 NYCRR Parts 700-705 (NYS, 1999b), and for assisting the NYSDEC in evaluating significant threat to public health and the environment as defined by 6 NYCRR Part 375 (NYS, 2006). Soil sample analyses were used to assess whether hazardous waste constituents are present in Site soils, and, if possible, confirm a source of chlorinated solvents. Soil vapor sampling results were used to evaluate whether VOCs present in soil and/or groundwater are migrating towards occupied buildings via vapor migration.

MACTEC used a Geoprobe® 66 DT rubber mounted track rig sampling device to collect groundwater, soil, and soil vapor samples to identify potential chlorinated solvents. The Geoprobe® pushed and/or hammered rods and probe tips into the subsurface for sample collection. A total of 49 borings were completed during this investigation (GW-12, GW-16, and GW-17 were not advanced due to utility conflicts). Of these 49 borings, three were soil vapor borings and four were completed as microwells. A total of 54 groundwater samples, 13 soil samples and three soil vapor samples (plus associated quality control [QC]) were collected from the Site area. Boring locations are shown on Figure 3.1 and 3.2 (GS locations correspond to GW locations).

MACTEC worked closely with the NYSDEC, the Site property owner, neighboring property owners, and utility companies while obtaining access to these exploration locations. These locations were chosen to determine groundwater conditions upgradient and downgradient of, as well as adjacent to, the Site.

Soil Sampling. Discrete subsurface soil samples were collected using a 4-foot long 2 inch diameter core sampler with an acrylic liner. Soil samples were collected continuously from the ground surface to five feet below the groundwater table. PID headspace readings were used to screen soil samples for the presence of VOCs as each soil sample was removed from the sample collection tube. Samples were described using the Unified Soil Classification System. Sample descriptions and classifications, VOC headspace readings, and boring observations were recorded on the FDR (Appendix C). Two unsaturated soil samples (GS-1 and GS-8) were collected on November 6, 2006, and eleven soil samples (GS-31 to GS-39, and GS-47 and GS-48) were collected on August 27 and 29, 2007 and submitted to Chemtech for TCL VOC analysis using USEPA OLM04.3 Methods as described in the NYSDEC ASP of June 2000, including the calculation of percent moisture. Off-site laboratory analysis included Category B deliverables.

Groundwater Sampling. Groundwater samples were collected using a one-inch diameter stainless steel wire wound screen which was exposed to the aquifer after being pushed to the desired depth interval. A peristaltic pump or check valve (depending on sample depth and water flow) was used for the collection of discrete groundwater samples. A minimum of one tubing volume of water was purged and one set of field parameters, including temperature, conductivity, pH, and turbidity, was collected prior to sampling. Groundwater parameters and sample observations were recorded on a FDR (Appendix C). VOC samples were collected at a purge rate of 100 milliliters per minute to minimize any potential volatilization.

To assess vertical extent of contamination, MACTEC attempted to collect groundwater samples from two depth intervals at many of the borings; at the water table and 10 feet into the water table (10 feet below the first sample). Each boring was completed to at least 10 feet into the water table, which was encountered from 5 to 14 feet bgs across the study area. The actual number of samples per boring and sample collection depths varied due to field conditions (e.g., dense/tight soils). Only one groundwater sample was collected from 25 borings (GW-2, GW-3, GW-4, GW-15, GW-18, GW-19, GW-21 through GW-30, GW-39 to GW-46, and GW-49). No groundwater samples were collected from 10 of the boring locations (GW-12, GW-16, GW-17, GW-31 to GW-34, and GW-36 to GW-38). Two groundwater samples were collected at varying depth intervals at the remaining boring locations (numbers do not include QC).

One sample collected from each of the first 20 completed locations (GW-1 to GW-23, with the exception of GW-12, GW-16, and GW-17) was screened on-site for VOCs by USEPA SOP# 2109, Revision 0.0 using an on-site Photovac GC. On-site screening analysis included an Excel Spreadsheet as the deliverable. Based on field screening VOC data, seven additional borings were advanced on November 17, 2006 (GW-24 through GW-30) to help assess the horizontal extent of contamination. One groundwater sample was collected from approximately four feet into the water table from each of the additional borings. Based on off-site laboratory results, 16 additional samples were collected from 12 borings advanced on August 28 and 29, 2007 (GW-35 and GW-39 to GW-49).

Groundwater samples were shipped to Chemtech for analyses of TCL VOCs using USEPA OLM04.3 Methods as described in the NYSDEC ASP of June 2000. Additionally, four groundwater samples (from borings GW-4, GW-9, GW-13 and GW-20) were analyzed for SVOCs using USEPA OLM04.3 Methods. Off-site laboratory analysis included Category B deliverables.

Microwell Installation. To assist the assessment of groundwater flow direction at the Site, four Geoprobe® borings were completed as microwells (GW-4, GW-13, GW-15, and GW-19). Microwell locations are shown on Figure 3.2. Groundwater was encountered from between 5 to 14 feet bgs. The one-inch diameter microwells were installed after groundwater samples were collected from each boring. The microwells were installed as piezometers, primarily for water level measurements. Microwells were constructed using one-inch inside diameter schedule 40 polyvinyl chloride (PVC), with 10 foot lengths of 0.01-inch machine slotted well screens. The wells were screened across the water table to determine water table elevations and create a potentiometric surface map. The wells were constructed with a #00N sand pack to two feet above the screen, a minimum of two feet of bentonite seal placed above the sand pack, native soil as backfill and sealed at the ground surface with either Portland Cement or blacktop patch. The wells were fit with a 1.5-inch PVC cap and a six-inch flush mount road box. All wells were developed for a minimum of twenty minutes using a peristaltic pump to clean the screen and ensure that the wells were conductive with groundwater. Well construction diagrams are included in Appendix C.

Soil Vapor Sampling. Based on proximity to nearby residences and/or businesses, and discussions with the NYSDEC, three soil vapor samples were collected (GV-1 to GV-3) and used to evaluate the potential vapor migration of contaminants from the groundwater (Figure 3.1). The

Geoprobe® rods were pushed to between 10 and 12 feet bgs, anticipated to be below the rain infiltration line, but above the water table fringe zone. Soil vapor was collected just above the water table to give an indication of the possible vapor migration from potentially contaminated groundwater.

Soil vapor samples were collected from the Geoprobe® points using the Geoprobe® PRT system. To sample with the Geoprobe® PRT system, a specialized point was attached to the end of the Geoprobe® rods. After pushing the rods to the desired depth, the PRT point was exposed to the soil by allowing a disposable point to drop off the bottom of the rods while pulling the rods up 0.5 feet. The PRT point allows ¼-inch tubing to be threaded directly to the bottom of the rods, for a small discrete sample point. The tubing was run to the surface and connected directly to the sample collection device. The outside of the rods were sealed at the ground surface with pre-hydrated bentonite. Approximately two liters of soil vapor, plus the volume of the tubing, was purged before collecting samples using a 580B OVM PID pump. During the soil vapor purge, vapors were screened using the PID. In addition, helium leak tests were conducted on a subset of the Region 8 Dry Cleaners Group 2 Sites soil vapor samples to ensure samples were representative of sub-surface conditions and not outdoor ambient air. Helium tests were conducted by encapsulating the sample point with a bucket sealed to the ground surface with bentonite. The encapsulated area was filled with helium. The soil vapor sample port was tested for helium breakthrough with a portable monitoring device both before and after collection of the soil vapor sample. No sample had greater than 10 percent of the tracer gas breakthrough. The soil vapor samples were collected with one-liter SUMMA®-type canisters with flow valves (set to approximately 20 minutes per sample). Flow into the canisters was less than 0.1 liters per minute. Samples were sent to Chemtech for VOC analysis by USEPA Method TO-15.

3.4 SUB-SLAB SOIL VAPOR SAMPLING

On December 19, 2006 one sub-slab soil vapor sample (SV-001) was collected to investigate the potential for vapor migration of contaminants from the groundwater and soil beneath the Site into the former ATRS building (Figure 3.1).

The soil vapor sample was collected from below the building concrete slab. A one-inch diameter hole was drilled with a hammer drill two inches into the building floor and was continued with a 3/8-inch

drill bit to approximately 3-inches below the slab. A ¼-inch piece of teflon tubing was inserted through a 1" diameter rubber stopper and placed into the hole, so that the bottom of the tubing was below the slab floor and the stopper rested, countersunk inside the one-inch hole. The stopper was then covered with beeswax, flush to the ground surface, providing a seal to prevent the migration of indoor air into the sub-slab. The tubing was then purged with a PID, screening the vapor as it purged. A 1.4-liter SUMMA®-type canister with a 20-minute flow valve was connected to the tubing.

Once the sub-slab vapor sample canisters were set up, the valve was opened. The time of sample collection, canister vacuum (in inches Hg), and weather conditions were recorded in the field log book.

Approximately 20 minutes after sample collection, the flow valve was stopped. The time and the remaining vacuum in the canister were noted in the field log book. The sample was shipped to Chemtech for analyses of VOCs by USEPA Method TO-15.

Upon completion of the sampling, the tubing and stopper were removed from the building floor and the hole was sealed with a fast drying hydraulic concrete (i.e. Quickcrete).

3.5 WATER LEVEL SURVEYS

Three rounds of synoptic groundwater level measurements were conducted; one on November 6, 2006, one on May 9, 2007, and one on August 29, 2007. Wells selected for water level measurements consisted of the four new microwells wells (GW-4, GW-13, GW-15, and GW-19) and the ten existing monitoring wells on the former ATRS property (MW-1, MW-1R, and MW2 to MW-9), along with the four microwells (DCGW-2, DCGW-10, DCGW-13, and DCGW-14) and five monitoring wells at the Diamond Cleaners property (DCMW-1 TO DCMW-5). Due to access issues, water levels were not able to be collected from all of the selected wells for each round. Well caps were opened and the wells were allowed to equilibrate to atmospheric pressure. The depths to water were measured from the top of well risers using a conductivity probe. The groundwater measurements were shown to have fluctuated between 0.5 feet to 1 foot from the November 2006 round to the May 2007 round. Groundwater table elevations were calculated from the well riser elevations (subsection 3.6). Well information and groundwater measurements are presented in Table 3.1.

In addition to water level measurements, slug tests were conducted on two of the ATRS site wells (MW-3 and MW-9) and on three of the Diamond Cleaners wells (DCMW-3 to DCMW-5). Tests were conducted by measuring the speed of well water level recovery after displacing water with a solid mass of PVC (i.e., the slug). Two rising head tests were conducted on each well and measured with a Hermit 3000 data logger. Data was imported into Aqtesolv and used to calculate hydraulic conductivity and estimate groundwater flow velocity.

3.6 SITE SURVEY

After completion of field sampling activities, Joseph Lu Engineering surveyed the Site and its surrounding area on February 6, 2007, including existing monitoring wells and microwell locations. A base map of the Site was created showing locations of monitoring wells and microwells. Horizontal locations were tied to the New York State Plane Coordinate System using North American Datum of 1983. The Site plan provided horizontal locations of all relevant Site features, which included surrounding homes and businesses at a scale of 1 inch to 50 feet. Relevant features included, but are not limited to all structures, buildings, roads, fences, new monitoring wells, marked underground utilities, fire plugs, and power poles.

Vertical elevations of the four new microwells and existing monitoring wells were tied to msl, North Atlantic Vertical Datum of 1988, and measured to an accuracy of 0.01 feet. Horizontal well measurements are accurate to 0.1 ft. In addition, monitoring and micro wells at the Diamond Cleaners property were previously surveyed by Joseph Lu Engineers. Vertical elevations of the ATRS and Diamond Cleaners wells are included on Table 3.1. The base map was used to accurately locate all Geoprobe® sample points, microwells, and all other media sampling locations. Temporary sample points were located by MACTEC using a Trimble global positioning system. Sample points are included on Figures 3.1 and 3.2, and the Joseph Lu Engineers survey map is included in Appendix D. Horizontal locations of sampling points are included on Table 3.2 (GS locations correspond to GW locations).

4.0 DATA ASSESSMENT

This section presents results of the laboratory analyses for soil, groundwater, and soil vapor samples collected during Task 2, as well as results of the water level surveys.

4.1 ANALYTICAL RESULTS

Soil and groundwater analytical results were compared to appropriate standards, criteria, or guidance (SCGs). There are no exterior soil vapor standards or guidance values, but if detected concentrations exceeded the New York State Department of Health (NYSDOH) sub-slab soil vapor guidance values recommended for mitigation, these concentrations were noted as potential concern. Reported concentrations of individual analytes indicating contravention of standards or guidelines are summarized in the following sections, and noted on Tables 4.1 to 4.5.

A Data Usability Summary Report (DUSR) was completed in accordance with the NYSDEC's Guidance for the Development of DUSRs (NYSDEC, 2002). This report and complete analytical results, including tentatively identified compounds (TICS), are presented in Appendix E. TICS were not evaluated as part of the DUSR.

Based on laboratory or data usability review, some of the data was qualified with a J, B, and/or D. Compounds were qualified J if the concentration listed was an estimated value, which was less than the specified minimum reporting limit but greater than the instrument detection limit. Compounds qualified J were analyzed for and determined to be present in the sample, and the mass spectrum of the compound met the identification criteria of the method. The reporting limits for most target VOCs using the OLM04.3 Methods, including the target chlorinated solvents compounds were 10 µg/L. This is above most of the NYS Class GA groundwater standards; however, the actual instrument detection limit was below the NYS Class GA groundwater standards. A list of Chemtech's instrument reporting limits for the OLM04.3 Method is included in Appendix E.

Compounds qualified B indicated that the compound was found in the trip blank, or laboratory blank, and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

Compounds qualified D indicated that the compound was reported from an analytical run that required a dilution due to concentrations greater than the highest calibration standard.

Analytical results were compared to the SCGs described below.

Soil Samples. Analytical results were compared to NYS Soil SCGs. Soil SCGs are based on the NYSDEC's Soil Cleanup Objectives (SCO) from 1) 6 NYCRR Subpart 375-6 - Remedial Program SCO for Unrestricted Use (NYS, 2006), and, if not listed in (1), then 2) "Technical and Administrative Guidance Memorandum 4046 (NYSDEC, 1994); Determination of Soil Cleanup Objectives and Cleanup Levels".

Groundwater Samples. Analytical results were compared to: (1) the NYS Class GA Groundwater Quality Standards from 6 NYCRR Parts 700-706 (NYS, 1999b) or, where applicable, (2) the NYS Class GA Groundwater Quality Guidance Values from the Division of Water Technical and Operational Guidance Series 1.1.1 "Ambient Water Quality Standards and Guidance Values" (NYSDEC, 1998).

Sub-Slab Vapor and Indoor Air Samples. The sub-slab vapor sample was compared to Matrix 1 and Matrix 2 from the NYSDOH, Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Final, October, 2006 (NYSDOH, 2006), and from values in the NYSDOH letter amendment (NYSDOH, 2007).

Geoprobe® Soil Vapor Samples. There are currently no SCGs for concentrations of compounds in soil vapor. Soil vapor samples were collected to determine whether this environmental medium is contaminated, characterize the nature and extent of contamination, and identify possible sources of the contamination.

4.1.1 Soil Sample Results

A summary of target VOCs detected in soil samples is presented in Table 4.1. Complete analytical results are included in Appendix E. Boring locations are shown on Figure 3.1 (GS locations are same as GW locations).

TCE was detected in six of the 13 soil samples collected from the Geoprobe® boring locations and exceeded the NYSDEC SCO (0.47 milligrams per kilogram [mg/kg]) in four of the soil samples, with exceeding concentrations ranging from 0.54 J mg/kg (GS-35) to 32 D mg/kg (GS-1).

PCE was also detected in the samples from borings GS-1 (2.7 mg/kg) and from boring GS-36 (1.2 mg/kg) compared to a SCO for PCE of 1.3 mg/kg. The PCE and TCE detections reported in the sample from boring GS-1 were from a dilution run analyzed using a methanol extraction. These concentrations were approximately 50 times higher than the concentrations reported from the initial analyses using the low concentration water based purge and trap procedure. This difference is likely due to the silty make up of the soil matrix, which may result in contaminants more readily leaching into the methanol than into the water. The results from the methanol extraction likely give a better representation of the chlorinated contaminants present in the soil and based on professional judgment the results from the methanol extraction run were reported in the final dataset. Soil samples from borings GS-31 to GS-39, GS-48 and GS-49 were collected using a methanol preservation.

Cis-1,2-dichoroethene (cis-1,2-DCE) was detected in soil samples from borings GS-36 (0.4 J mg/kg) and GS-37 (0.5 J mg/kg), above the SCO for cis-1,2-DCE of 0.25 mg/kg. Cis-1,2-DCE was detected at a concentration below its associated SCO in boring GS-1. Toluene was detected at a concentration of 2.1 mg/kg in boring GS-37, above its associated SCO of 0.7 mg/kg. Toluene was also detected at a concentration below its associated SCO in borings GS-1 and GS-36. Methylene chloride, a common laboratory contaminant was detected in the soil sample from boring GS-47 at a concentration of 0.18 mg/kg, above its associated SCO of .05 mg/kg.

4.1.2 Groundwater Sample Results

A summary of target VOCs detected in groundwater samples collected is presented in Table 4.2 (November 2006) and 4.3 (August 2007) and maximum detections of PCE and TCE per boring are presented on Figure 4.1. A subset of samples was also analyzed for SVOCs. Detected SVOCs are presented on Tables 4.4. On-site VOC analytical results from November 2006 were used for locating potential additional sample locations, and not for final groundwater characterization (all

samples analyzed on-site were split samples of samples sent for off-site analyses). On-site results and complete off-site analytical results are included in Appendix E.

Fifty four groundwater samples were collected from the former ATRS site vicinity for VOC analysis from various depths within 39 Geoprobe® borings. Chlorinated and/or fuel related Target VOCs were detected in exceedance of SCGs at 30 of the 39 Geoprobe® groundwater boring locations. In addition to the Geoprobe® borings, chlorinated and/or fuel related Target VOCs were detected in exceedance of SCGs in 7 of the 10 existing ATRS site monitoring wells. Maximum detections of target VOCs in samples from the Geoprobe® borings and on-Site wells in exceedance of criteria are presented in the following table (concentrations in µg/L).

Parameter	GW Standard	Minimum Detection	Maximum Detection	Frequency of Exceedance
1,1-Dichloroethane	5	1.2	27	1/64
1,1-Dichloroethene	5	0.83	6.8	1/64
1,1,1-Trichloroethane	5	1.1	17	4/64
Benzene	1	1.3	2100	8/64
Cis-1,2-Dichloroethene	5	0.93	250	24/64
Ethyl benzene	5	3.7	1700	5/64
Isopropylbenzene	5	5.1	70	5/64
Methylene Chloride	5	0.87	54	2/64
Methyl Tertbutyl Ether	10	0.83	26	7/64
o-Xylene	5	2.6	1200	3/64
Tetrachloroethene	5	1.2	4300	18/64
Toluene	5	1.4	1100	4/64
trans-1,2-Dichloroethene	5	1	6.2	2/64
Trichloroethene	5	1.3	200	18/64
Vinyl chloride	2	0.88	9	11/64
Xylene, m/p	5	0.89	5800	5/64

Seven samples were collected from existing wells/microwells related to the nearby Diamond Cleaners property for VOC analysis; five monitoring wells (DCMW-1 through DCMW-5) and two microwells (DCGW-2 and DCGW-10) installed by MACTEC (MACTEC, 2007). Chlorinated and/or fuel related Target VOCs were detected in exceedance of SCGs in all seven of the sample locations. Maximum detections of Target VOCs in exceedance of criteria are presented in the following table (concentrations in µg/L).

Parameter	GW Standard	Minimum Detection	Maximum Detection	Frequency of Exceedance
Benzene	1	1.8	1.8	1/7
Cis-1,2-Dichloroethene	5	1.2	1500	6/7
Ethyl benzene	5	7.1	7.1	1/7
Isopropylbenzene	5	14	14	1/7
o-Xylene	5	80	80	1/7
Tetrachloroethene	5	9.9	890	7/7
Toluene	5	6.3	6.3	1/7
Trichloroethene	5	4.1	27	5/7
Xylene, m/p	5	31	31	1/7
Vinyl chloride	2	0.98	130	1/7

Additional target VOCs were detected, but at concentrations below their associated criteria (see Table 4.2).

SVOC results indicted that 2,4-Dimethylphenol (detection of 22 µg/L compared to Aesthetic Groundwater Standard of 1 µg/L), Naphthalene (detection of 240 µg/L compared to TOGs Guidance Values 10 µg/L) and phenol (detection of 17 µg/L compared to Class GA groundwater standard of 1 µg/L) exceeded groundwater criteria at MW-2. In addition, 4-Methylphenol, although not listed individually in the TOGs, is in the phenol family and thus exceeds the Aesthetic Groundwater Standard of 1 µg/L for total phenols (NYSDEC, 1998).

Several TICs were also detected in the VOC groundwater samples collected. TICs are reported in Appendix E.

4.1.4 Soil Vapor Sample Results

A summary of target VOCs detected in soil vapor samples is presented in Table 4.5. Complete analytical results are included in Appendix E.

The only VOCs for which the NYSDOH has promulgated guidance values for soil vapor are TCE, PCE, 1,1,1-tricholoroethane (1,1,1-TCA), cis-1,2-dichloroethene, 1,1-dichlorethene, vinyl chloride, and carbon tetrachloride. These guidance values are only applicable when evaluating sub-slab soil vapor samples in relation to indoor air concentrations, and not exterior soil vapor samples.

Sub-Slab Soil Vapor Sample Results. PCE was detected in the sub-slab soil vapor sample (SV-001) at a concentration of 1310 D micrograms per cubic meter (µg/m^3) and TCE was detected in the sub-slab sample at a concentration of 17,472 EDJ µg/m^3. These concentrations are both above the NYSDOH guidelines for sub-slab soil vapor concentrations of 1000 µg/m^3 and 250 µg/m^3, respectively, recommended for mitigation without need to consider indoor air concentrations. Low concentrations of 1,1,1-TCA (less than 13.1 µg/m^3) was detected in the sub-slab sample, which is below the NYSDOH guidelines for sub-slab soil vapor recommending mitigation without need to consider indoor air concentrations.

Geoprobe® Soil Vapor Sample Results. Although no exterior soil vapor criteria have been promulgated, detected compounds in soil vapor samples were compared to the NYSDOH guideline for sub-slab soil vapor recommending mitigation without need to consider indoor air concentrations for the seven compounds with guidance values (250 µg/m^3 for TCE, carbon tetrachloride and vinyl chloride; 1000 µg/m^3 for PCE, 1,1,1-TCA, cis-1,2-dichloroethene, and 1,1-dichloroethene) (NYSDOH, 2007). TCE was detected in GV-2 and GV-3 at concentrations of 1737 µg/m^3 and 20.9 µg/m^3, respectively. PCE was detected in all three soil vapor samples at concentrations less than 40 µg/m^3. 1,1,1-TCA was detected in GV-2 at concentrations of 298 µg/m^3. Low concentrations of carbon tetrachloride (7.6 µg/m^3) and vinyl chloride (3.1 µg/m^3) were detected in GV-1.

4.2 GROUNDWATER FLOW

The monitoring well and microwell survey and depth to water measurements were used to evaluate groundwater flow. Monitoring well and microwell survey and water elevation data are presented in Table 3.1. Depth to water across the survey area varied from approximately 5.9 feet bgs to 14.4 feet bgs in May 2007. Measured groundwater elevations varied from 841.49 feet above msl, to 843.99 feet above msl in May 2007. The groundwater table gradient appears to be relatively flat on the Site property, varying by 0.7 feet in elevation over 475 feet of distance (MW-7 to GW-15), or 0.001 feet/feet in May 2007. November 2006, May 2007, and August 2007 interpreted groundwater contours are presented on Figures 4.2, 4.3, and 4.4. Based on topography, groundwater flow is expected to be to the south towards the Chemung River, but local groundwater flow is interpreted to flow to the west, southwest based on water level data.

The presence of the historic Chemung Canal and Junction Canal in the vicinity of the Site may be influencing groundwater flow (a figure in Appendix A shows the approximate canal locations presented over a 2002 aerial photograph of the Site area). The Chemung Canal operated from 1833 to 1878 and water within the canal was reportedly four feet deep (Chemungcanal.netfirms.com, 2007). The Junction Canal reportedly operated from 1854 to 1871. The two canals were reportedly given/sold to various entities (City of Elmira, railroads, abutting property owners) and filled in the late 1800's.

Based on slug test data and an average hydraulic gradient of 0.0011 feet per foot, groundwater velocity in the vicinity of the site appears to be relatively slow, ranging from 4.2 to 45 feet per year in the five wells measured, with an average calculated velocity of 15 feet per year. Hydraulic conductivity calculations are presented on Table 4.6. Aqtesolv slug test plots are included in Appendix F.

5.0 INVESTIGATION FINDINGS

A review of physical and chemical data collected during the SC resulted in the following findings:

1) TCE and PCE were detected at concentrations up to 68 times and two times, respectively, their respective NYSDEC SCOs in the soil sample collected from seven to nine feet bgs at location GS-1 (located on the Site property adjacent to the east side of the Site building). Additional soil sampling on the eastern side of the Site property indicates that chlorinated solvent contamination appears to be limited to the soil near the Site building (GS-36 and GS-37). The trace concentrations of chlorinated solvents detected elsewhere were collected near the water table and may represent groundwater contamination, and not actual soil contamination.

2) PCE was detected at concentrations above NYS standards in groundwater samples from 24 of the 56 well/Geoprobe boring locations across the Site and vicinity. Detected concentration of PCE in groundwater ranged from 1.2 µg/L to 4300 µg/L. TCE was detected at concentrations above NYS standards in groundwater samples from 22 of the 56 well/Geoprobe boring locations across the Site and vicinity. Detected concentration of TCE in groundwater ranged from 1.3 µg/L to 200 µg/L. The two samples with the highest detections of PCE and TCE were collected from borings (GW-2 and GW-26) located adjacent to and south of the Site building.

3) Based on groundwater measurements collected, groundwater at the Site and vicinity is interpreted to flow to the west, southwest. Hydraulic gradients across the Site property are relatively flat (0.0011 feet/foot) and groundwater flow patterns are not entirely clear based on available data.

4) Concentrations of TCE (17,472 EDJ µg/m^3) and PCE (1,310 J µg/m^3) detected in sub-slab soil vapor are greater than those concentrations recommended for mitigation based on the NYSDOH guidance (250 µg/m^3 and 1,000 µg/m^3, respectively). PCE was also detected in the three soil vapor samples collected from the north, east, and south side of the Site building, but at concentrations 30 times less than that detected in the sub-slab sample. TCE was also detected two of these three soil vapor samples collected from around the Site building, but with the highest detected concentration 10 times less than that detected in the sub-slab sample.

Data Gaps. Based on the SC, the following data gaps still exist:

1) Although it is possible that the TCE concentration detected in sub-slab soil vapor (17,472 EDJ µg/m^3) is a result of the soil contamination located on the east side of the Site building (32 D mg/kg) (see calculations included in Appendix F), no soil sampling was conducted below the Site building and it is not known if potential PCE contamination exists in soil below the Site building's concrete slab.

2) Based on groundwater concentrations detected, it is likely that a source of PCE contamination exists at the Site. More information is needed to define the PCE source area and to determine if the Diamond Cleaners Site is contributing to the PCE detected in the Site groundwater.

6.0 REFERENCES

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TABLES

Table 3.1: Monitoring Well and Groundwater Elevation Data

Site	Location	Casing Elevation	Riser Elevation	Installation Date	Screen Length	Depth (BTOR) (11/2/2006)	Depth to Water (11/2/06)	Water Elevation (11/2/06)	Depth to Water (11/16/06)	Water Elevation (11/16/06)	Depth to Water (5/9/07)	Water Elevation (5/9/07)	Depth to Water (8/30/07)	Water Elevation (8/30/07)
Associated	GW-4	854.69	854.46	11/8/2006	10	19.6	not installed	not installed	12.42	842.04	12.89	841.57	13.4	841.06
Associated	GW-13	855.03	854.87	11/7/2006	10	19.3	not installed	not installed	12.23	842.64	12.77	842.10	NM	NM
Associated	GW-15	854.40	854.20	11/8/2006	10	17.5	not installed	not installed	11.49	842.71	12.71	841.49	12.77	841.43
Associated	GW-19	848.36	848.12	11/9/2006	10	14.5	not installed	not installed	5.28	842.84	5.86	842.26	NM	NM
Associated	MW-1	856.98	856.72	Unknown	Unknown	18.7	NM	NM	NM	NM	14.68	842.04	15.22	841.50
Associated	MW-1R	856.85	856.41	Unknown	Unknown	19.8	NM	NM	13.92	842.49	14.31	842.10	14.86	841.55
Associated	MW-2	857.04	856.41	Unknown	Unknown	NM	14.05	842.36	13.94	842.47	14.31	842.10	NM	NM
Associated	MW-3	856.85	856.54	Unknown	Unknown	19.9	14.29	842.25	13.93	842.61	14.42	842.12	14.95	841.59
Associated	MW-4	856.96	856.58	Unknown	Unknown	17.8	14.31	842.27	13.98	842.60	14.43	842.15	14.97	841.61
Associated	MW-5	856.02	855.59	Unknown	Unknown	19.6	13.53	842.06	13.21	842.38	13.50	842.09	14.1	841.49
Associated	MW-6	856.34	855.84	Unknown	Unknown	19.1	13.42	842.42	13.33	842.51	13.71	842.13	14.44	841.40
Associated	MW-7	856.82	856.26	Unknown	Unknown	19.4	13.98	842.28	13.62	842.64	14.09	842.17	14.64	841.62
Associated	MW-8	856.41	856.10	Unknown	Unknown	19.2	NM	NM	13.42	842.68	13.95	842.15	14.48	841.62
Associated	MW-9	856.70	856.45	Unknown	Unknown	19.5	14.29	842.16	14.02	842.43	14.40	842.05	14.97	841.48
Diamond	GW-2	855.91	855.47	6/27/2005	10	19.3	NM	NM	NM	NM	NM	NM	13.17	842.30
Diamond	GW-10	854.58	854.17	6/23/2005	10	19.4	NM	NM	10.97	843.20	11.79	842.38	12.21	841.96
Diamond	GW-13	854.46	854.05	6/27/2005	10	25.8	NM	NM	9.78	844.27	11.19	842.86	11.42	842.63
Diamond	GW-14	854.20	853.79	6/27/2005	10	24	NM	NM	8.74	845.05	9.80	843.99	9.24	844.55
Diamond	MW-1	855.59	854.64	10/3/2005	10	24.5	11.77	842.87	11.22	843.42	11.96	842.68	12.39	842.25
Diamond	MW-2	855.02	854.57	10/4/2005	10	24.5	11.87	842.70	no access	no access	12.07	842.50	12.52	842.05
Diamond	MW-3	854.19	853.81	10/4/2005	10	24.5	10.91	842.90	10.33	843.48	11.28	842.53	11.52	842.29
Diamond	MW-4	854.18	853.90	10/5/2005	10	22	11.09	842.81	no access	no access	no access	no access	11.75	842.15
Diamond	MW-5	854.15	853.77	10/5/2005	10	24.5	10.90	842.87	10.32	843.45	11.16	842.61	11.59	842.18

Notes:
Wells surveyed by Joseph Lu Engineers. Horizontal locations are tied to the New York State Plane Coordinate System using NAD of 1983. Vertical elevations were tied to msl, NAVD of 1988.
BTOR - Below top of riser
NM = Not Measured.

Table 3.2: Sample Location Coordinates

Location Identification	Location Description	X-Coordinate	Y-Coordinate
SV-001	Sub-Slab Soil Vapor	759592.4	764512.8
GV-1	Geoprobe Soil Vapor Point	759546.9	764585.1
GV-2	Geoprobe Soil Vapor Point	759683.1	764551.3
GV-3	Geoprobe Soil Vapor Point	759598.3	764451.0
GW-1	Geoprobe Groundwater/Soil	759599.9	764566.3
GW-2	Geoprobe Groundwater Point	759607.1	764480.7
GW-3	Geoprobe Groundwater Point	759532.1	764402.4
GW-4	Microwell and Geoprobe Groundwater Point	759735.4	764422.1
GW-5	Geoprobe Groundwater Point	759780.4	764399.1
GW-6	Geoprobe Groundwater Point	759750.2	764518.1
GW-7	Geoprobe Groundwater Point	759741.3	764576.0
GW-8	Geoprobe Groundwater/Soil	759680.4	764643.3
GW-9	Geoprobe Groundwater Point	759698.5	764745.7
GW-10	Geoprobe Groundwater Point	759648.7	764783.3
GW-11	Geoprobe Groundwater Point	759670.5	764860.7
GW-13	Microwell and Geoprobe Groundwater Point	759601.3	764898.1
GW-14	Geoprobe Groundwater Point	759596.3	765194.1
GW-15	Microwell and Geoprobe Groundwater Point	759885.1	764333.8
GW-18	Geoprobe Groundwater Point	760009.3	765691.9
GW-19	Microwell and Geoprobe Groundwater Point	759622.5	765561.1
GW-20	Geoprobe Groundwater Point	759042.5	765306.4
GW-21	Geoprobe Groundwater Point	759878.1	764776.8
GW-22	Geoprobe Groundwater Point	759930.1	764841.4
GW-23	Geoprobe Groundwater Point	759945.2	764717.6
GW-24	Geoprobe Groundwater Point	759479.5	764734.3
GW-25	Geoprobe Groundwater Point	759505.2	764647.3
GW-26	Geoprobe Groundwater Point	759572.9	764490.1
GW-27	Geoprobe Groundwater Point	759842.3	764515.7
GW-28	Geoprobe Groundwater Point	759662.8	764464.2
GW-29	Geoprobe Groundwater Point	759662.3	764519.9
GW-30	Geoprobe Groundwater Point	759616.8	764520.5
GW-31	Geoprobe Groundwater/Soil	759573.6	764581.3
GW-32	Geoprobe Groundwater/Soil	759589.3	764581.4
GW-33	Geoprobe Groundwater/Soil	759639.3	764582.7
GW-34	Geoprobe Groundwater/Soil	759640.3	764566.6
GW-35	Geoprobe Groundwater/Soil	759644.2	764556.4
GW-36	Geoprobe Groundwater/Soil	759608.8	764546.0
GW-37	Geoprobe Groundwater/Soil	759621.9	764566.9
GW-38	Geoprobe Groundwater/Soil	759617.8	764582.3
GW-39	Geoprobe Groundwater/Soil	759660.7	764559.7
GW-40	Geoprobe Groundwater Point	759667.7	764590.0
GW-41	Geoprobe Groundwater Point	759681.0	764567.1
GW-42	Geoprobe Groundwater Point	759699.1	764512.1
GW-43	Geoprobe Groundwater Point	759575.5	764490.8
GW-44	Geoprobe Groundwater Point	759585.3	764437.2
GW-45	Geoprobe Groundwater Point	759618.9	764469.0
GW-46	Geoprobe Groundwater Point	759567.7	764469.5
GW-47	Geoprobe Groundwater/Soil	759625.7	764713.5
GW-48	Geoprobe Groundwater/Soil	759613.6	764816.0
GW-49	Geoprobe Groundwater Point	759612.5	764639.2
MW-1	Existing Monitoring Well	759502.7	764548.9
MW-1R	Existing Monitoring Well	759507.1	764555.8
MW-2	Existing Monitoring Well	759493.8	764589.6

Table 3.2: Sample Location Coordinates

Location Identification	Location Description	X-Coordinate	Y-Coordinate
MW-3	Existing Monitoring Well	759541.7	764567.0
MW-4	Existing Monitoring Well	759569.4	764598.8
MW-5	Existing Monitoring Well	759417.9	764601.0
MW-6	Existing Monitoring Well	759423.1	764525.4
MW-7	Existing Monitoring Well	759544.5	764667.3
MW-8	Existing Monitoring Well	759655.0	764596.8
MW-9	Existing Monitoring Well	759530.2	764482.6
DCGW-2	Existing Microwell	760041.9	764781.6
DCGW-10	Existing Microwell	759964.9	764681.3
DCMW-1	Existing Monitoring Well	759991.9	764837.0
DCMW-2	Existing Monitoring Well	759865.5	764735.6
DCMW-3	Existing Monitoring Well	760027.6	764468.1
DCMW-4	Existing Monitoring Well	759920.1	764548.7
DCMW-5	Existing Monitoring Well	760045.8	764702.7

Notes:
1) Horizontal coordinates are in feet and based on the New York State Plane Coordinates System, Central Zone. They are based on the NAD 1983 coordinate datum.
2) Montioring Well and Microwell Locations were surveyed by Joseph Lu Engineers, a licensed land surveyor with an accuracy of 0.1 feet.
3) Geoprobe Locations were surveyed using a Trimble global positioning system with an accuracy of 1-meter.
4) Location SV-001 was approximated based on aerial photography.
5) GS soil sample locations are associated with the GW loction identifications.

Table 4.1: Soil VOC Results

	Location	GS-1		GS-8		GS-031		GS-032		GS-032		GS-033	
	Sample Date	11/6/2006		11/6/2006		8/27/2007		8/27/2007		8/27/2007		8/27/2007	
	Sample ID	ATGS00100701XX		ATGS00800801XX		ATGS03101301XX		ATGS03200701DU		ATGS03200701XX		ATGS03301601XX	
	Sample Depth (ft bgs)	7-9		8-10		11-15		5-7		5-7		14-16	
	Qc Code	FS		FS		FS		FD		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Cis-1,2-Dichloroethene	0.25	**0.025**		0.011	U	1.5	U	0.57	U	0.76	U	1.2	U
Methylene chloride	0.05	**0.013**	**U**	0.011	U	1.5	U	0.57	U	0.76	U	1.2	U
Tetrachloroethene	1.3	**2.7**	**D**	0.011	U	1.5	U	0.57	U	0.76	U	1.2	U
Toluene	0.7	**0.0024**	**J**	0.011	U	1.5	U	0.57	U	0.76	U	1.2	U
Trichloroethene	0.47	**32**	**D**	**0.0042**	**J**	1.5	U	0.57	U	0.76	U	1.2	U
Percent Solids (%)	NA	**76**		**87**		**84**		**79**		**79**		**74**	

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Percent Solids analyzed by EPA Merhod 160.3
Results in milligram per kilogram (mg/kg)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
D = Result was reported from a diluted analytical run.
J = Estimated value
Criteria = Values from Subpart 375-6.8(a) Unrestricted Use Soil Cleanup, "Remedial Program Soil Clean-up Objectives" (NYSDEC, 2006)
Highlighted results in **BOLD** exceed associated criteria

Table 4.1: Soil VOC Results

	Location	GS-034		GS-035		GS-036		GS-037		GS-038		GS-039	
	Sample Date	8/27/2007		8/27/2007		8/27/2007		8/27/2007		8/27/2007		8/27/2007	
	Sample ID	ATGS03401501XX		ATGS03501501XX		ATGS03600401XX		ATGS03700701XX		ATGS03801401XX		ATGS03901501XX	
	Sample Depth (ft bgs)	13-15		13-15		2-4		5-7		12-14		13-15	
	Qc Code	FS		FS		FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Cis-1,2-Dichloroethene	0.25	0.48	U	0.57	U	**0.4**	**J**	**0.5**	**J**	0.63	U	0.83	U
Methylene chloride	0.05	0.48	U	0.57	U	1	U	2	U	0.63	U	0.83	U
Tetrachloroethene	1.3	0.48	U	0.57	U	**1.2**		2	U	0.63	U	0.83	U
Toluene	0.7	0.48	U	0.57	U	**0.17**	**J**	**2.1**		0.63	U	0.83	U
Trichloroethene	0.47	**0.12**	**J**	**0.54**	**J**	**2.5**		**11**		0.63	U	0.83	U
Percent Solids (%)	NA	**84**		**87**		**77**		**59**		**79**		**73**	

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.
Percent Solids analyzed by EPA Merhod 160.3
Results in milligram per kilogram (mg/kg)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
D = Result was reported from a diluted analytical run.
J = Estimated value
Criteria = Values from Subpart 375-6.8(a) Unrestricted Use Soil Cleanup, "Remedial Program Soil Clean-up Objectives" (NYSDEC, 2006)
Highlighted results in **BOLD** exceed associated criteria

Table 4.1: Soil VOC Results

	Location	GS-047		GS-048	
	Sample Date	8/29/2007		8/29/2007	
	Sample ID	ATGS04700501XX		ATGS04801201XX	
	Sample Depth (ft bgs)	3-5		10-12	
	Qc Code	FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**
Cis-1,2-Dichloroethene	0.25	0.66	U	0.74	U
Methylene chloride	0.05	**0.18**	**J**	0.74	U
Tetrachloroethene	1.3	0.66	U	0.74	U
Toluene	0.7	0.66	U	0.74	U
Trichloroethene	0.47	0.66	U	0.74	U
Percent Solids (%)	NA	**88**		**85**	

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.
Percent Solids analyzed by EPA Merhod 160.3
Results in milligram per kilogram (mg/kg)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
D = Result was reported from a diluted analytical run.
J = Estimated value
Criteria = Values from Subpart 375-6.8(a) Unrestricted Use Soil Cleanup, "Remedial Program Soil Clean-up Objectives" (NYSDEC, 2006)
Highlighted results in **BOLD** exceed associated criteria

Table 4.2: Groundwater VOC Results - 2006

	Location	GW-1		GW-1		GW-1		GW-2		GW-3		GW-4		GW-5	
	Sample Date	11/6/2006		11/6/2006		11/6/2006		11/10/2006		11/10/2006		11/8/2006		11/7/2006	
	Sample ID	ATGW00102001XX		ATGW00102001XD		ATGW00102901XX		ATGW00201801XX		ATGW00301801XX		ATGW00401701XX		ATGW00501701XX	
	Sample Depth (ft bgs)	20		20		29		18		18		17		17	
	Qc Code	FS		FD		FS		FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5	**2.1**	**J**	**2.3**	**J**	**8.2**	**J**	250	U	10	U	**17**		**2.6**	**J**
1,1-Dichloroethane	5	10	U	10	U	10	U	250	U	10	U	**3**	**J**	**1.2**	**J**
1,1-Dichloroethene	5	10	UJ	10	UJ	10	UJ	250	U	10	U	**1.2**	**J**	10	UJ
1,4-Dichlorobenzene	3	10	U	10	U	10	U	250	U	10	U	10	U	10	UJ
2-Butanone	50*	50	U	50	U	50	U	1200	U	50	U	50	U	50	UJ
Acetone	50*	50	U	50	U	50	U	1200	U	50	U	50	U	50	UJ
Benzene	1	**1.3**	**J**	**1.4**	**J**	10	U	250	U	10	U	10	U	10	UJ
Chloroform	7	10	U	10	U	10	U	250	U	10	U	10	U	10	UJ
Cis-1,2-Dichloroethene	5	**34**		**37**	**J**	**48**		**250**	**J**	10	U	**47**		**22**	**J**
Cyclohexane	NA	10	U	10	U	10	U	250	U	10	U	10	U	10	UJ
Ethyl benzene	5	10	U	10	U	10	U	250	U	10	U	10	U	10	UJ
Isopropylbenzene	5	10	U	10	U	10	U	250	U	10	U	10	U	10	UJ
Methyl cyclohexane	NA	10	U	10	U	10	U	250	U	10	U	10	U	10	UJ
Methyl Tertbutyl Ether	10*	**2.9**	**J**	**3**	**J**	**15**		250	U	10	U	**3**	**J**	**1.3**	**J**
Methylene chloride	5	10	U	10	U	10	U	250	UJ	10	UJ	10	U	10	UJ
o-Xylene	5	10	U	10	U	10	U	250	U	10	U	10	U	10	UJ
Tetrachloroethene	5	**2.5**	**J**	**2.5**	**J**	**12**		**2100**		10	U	**17**		**3**	**J**
Toluene	5	10	U	10	U	10	U	250	U	10	U	10	U	10	UJ
trans-1,2-Dichloroethene	5	10	U	10	U	10	U	250	U	10	U	10	U	10	UJ
Trichloroethene	5	**20**		**20**	**J**	**13**		**190**	**J**	10	U	**15**		**1.5**	**J**
Vinyl chloride	2	**3.9**	**J**	**4**	**J**	10	U	250	U	10	U	**2.9**	**J**	**1.7**	**J**
Xylene, m/p	5	10	U	10	U	10	U	250	U	10	U	10	U	10	UJ

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
B = Analyte was detected in the method blank
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards.
Highlighted results in **BOLD** exceed associated criteria

Table 4.2: Groundwater VOC Results - 2006

	Location	GW-5		GW-6		GW-6		GW-6		GW-7		GW-7		GW-8	
	Sample Date	11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/6/2006	
	Sample ID	ATGW00502801XX		ATGW00601701XX		ATGW00602801XX		ATGW00602801XD		ATGW00701701XX		ATGW00702801XX		ATGW00802701XX	
	Sample Depth (ft bgs)	28		17		28		28		17		28		27	
	Qc Code	FS		FS		FS		FD		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5	**5.2**	**J**	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	5	**2.8**	**J**	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	5	**1.1**	**J**	10	U	10	U	10	U	10	U	10	U	10	UJ
1,4-Dichlorobenzene	3	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone	50*	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Acetone	50*	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Benzene	1	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	7	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	5	**43**		10	U	10	U	10	U	**0.93**	**J**	10	U	**2.8**	**J**
Cyclohexane	NA	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Ethyl benzene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane	NA	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	10*	**3**	**J**	10	U	10	U	10	U	10	U	10	U	10	U
Methylene chloride	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
o-Xylene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	5	**6.9**	**J**	**9.2**	**J**	10	U	10	U	**1.6**	**J**	**2.2**	**J**	**2.7**	**J**
Toluene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Trichloroethene	5	**4.1**	**J**	10	U	10	U	10	U	10	U	10	U	10	U
Vinyl chloride	2	**4.2**	**J**	10	U	**1.2**	**J**	**1**	**J**	**1.5**	**J**	**2.5**	**J**	10	U
Xylene, m/p	5	10	U	10	U	10	U	**2.8**	**J**	10	U	10	U	10	U

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
B = Analyte was detected in the method blank
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards.
Highlighted results in **BOLD** exceed associated criteria

Table 4.2: Groundwater VOC Results - 2006

	Location	GW-8		GW-9		GW-9		GW-10		GW-10		GW-11		GW-11	
	Sample Date	11/6/2006		11/7/2006		11/7/2006		11/6/2006		11/6/2006		11/7/2006		11/7/2006	
	Sample ID	ATGW00802001XX		ATGW00901701XX		ATGW00902801XX		ATGW01002201XX		ATGW01002901XX		ATGW01101701XX		ATGW01102801XX	
	Sample Depth (ft bgs)	20		17		28		22		29		17		28	
	Qc Code	FS		FS		FS		FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U
1,1-Dichloroethane	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	5	10	UJ	10	U	10	U	10	UJ	10	UJ	10	U	10	U
1,4-Dichlorobenzene	3	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone	50*	50	U	50	U	50	U	50	UJ	50	U	50	U	50	U
Acetone	50*	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Benzene	1	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U
Chloroform	7	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	5	**5.1**	**J**	**140**	**J**	**19**		**69**		**42**	**J**	**34**		**140**	
Cyclohexane	NA	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Ethyl benzene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane	NA	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	10*	**4.9**	**J**	10	U	10	U	**2.2**	**J**	**2.9**	**J**	10	U	**3.7**	**J**
Methylene chloride	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
o-Xylene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	5	**2.6**	**J**	**5**	**J**	**1.2**	**J**	10	U	10	U	10	U	10	U
Toluene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	5	10	U	**1.3**	**J**	10	U	**3.6**	**J**	**1**	**J**	**1**	**J**	**6.2**	**J**
Trichloroethene	5	**1.3**	**J**	**7.9**	**J**	10	U	**1.5**	**J**	10	U	**10**		**3.7**	**J**
Vinyl chloride	2	10	U	**1.4**	**J**	**9**	**J**	**2.8**	**J**	**4.5**	**J**	10	U	**4.7**	**J**
Xylene, m/p	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
B = Analyte was detected in the method blank
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards.
Highlighted results in **BOLD** exceed associated criteria

Table 4.2: Groundwater VOC Results - 2006

	Location	GW-13		GW-13		GW-14		GW-14		GW-15		GW-18		GW-19	
	Sample Date	11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/8/2006		11/9/2006		11/9/2006	
	Sample ID	ATGW01301701XX		ATGW01302301XX		ATGW01401601XX		ATGW01402901XX		ATGW01501601XX		ATGW01801101XX		ATGW01901301XX	
	Sample Depth (ft bgs)	17		23		16		29		16		11		13	
	Qc Code	FS		FS		FS		FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	5	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U
1,4-Dichlorobenzene	3	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone	50*	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Acetone	50*	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Benzene	1	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	7	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	5	**23**		**44**		**1.7**	**J**	**9.7**	**J**	10	U	10	U	10	U
Cyclohexane	NA	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Ethyl benzene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane	NA	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	10*	**3.1**	**J**	**1.8**	**J**	10	U	**0.83**	**J**	10	U	10	U	10	U
Methylene chloride	5	10	U	10	U	10	U	10	U	10	U	10	U	10	UJ
o-Xylene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Toluene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	5	**2.1**	**J**	**3.9**	**J**	10	U	**1.2**	**J**	10	U	10	U	10	U
Trichloroethene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Vinyl chloride	2	**1**	**J**	**1.2**	**J**	10	U	**0.88**	**J**	10	U	10	U	10	U
Xylene, m/p	5	10	U	10	U	**0.89**	**J**	10	U	10	U	10	U	10	U

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
B = Analyte was detected in the method blank
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards.
Highlighted results in **BOLD** exceed associated criteria

Table 4.2: Groundwater VOC Results - 2006

	Location	GW-20		GW-20		GW-21		GW-22		GW-23		GW-24		GW-25	
	Sample Date	11/9/2006		11/9/2006		11/9/2006		11/10/2006		11/10/2006		11/17/2006		11/17/2006	
	Sample ID	ATGW02002601XX		ATGW02003401XX		ATDCG2101801XX		ATDCG2201801XX		ATDCG2301801XX		ATGW02401601XX		ATGW02501601XX	
	Sample Depth (ft bgs)	26		34		18		18		18		16		16	
	Qc Code	FS		FS		FS		FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	3	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone	50*	50	U	50	U	50	U	50	U	**3.5**	**J**	50	U	50	U
Acetone	50*	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Benzene	1	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	7	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	5	10	U	10	U	**170**	**J**	**66**		**38**		10	U	10	U
Cyclohexane	NA	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Ethyl benzene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane	NA	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	10*	10	U	10	U	10	U	10	U	10	U	**26**	**J**	**26**	**J**
Methylene chloride	5	10	UJ	10	UJ	10	UJ	10	U	10	U	10	UJ	10	UJ
o-Xylene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	5	10	U	10	U	**98**		**17**		**65**		10	U	10	U
Toluene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	5	10	U	10	U	**1.8**	**J**	10	U	10	U	10	U	10	U
Trichloroethene	5	10	U	10	U	**17**		**4.7**	**J**	**9.1**	**J**	10	U	10	U
Vinyl chloride	2	10	U	10	U	**1.1**	**J**	10	U	10	U	10	U	10	U
Xylene, m/p	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
B = Analyte was detected in the method blank
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards.
Highlighted results in **BOLD** exceed associated criteria

Table 4.2: Groundwater VOC Results - 2006

	Location	GW-25		GW-26		GW-27		GW-28		GW-29		GW-30		GW-30	
	Sample Date	11/17/2006		11/17/2006		11/17/2006		11/17/2006		11/17/2006		11/17/2006		11/17/2006	
	Sample ID	ATGW02501601XD		ATGW02601601XX		ATGW02701501XX		ATGW02801401XX		ATGW02901601XX		ATGW03001401XX		ATGW03001401XD	
	Sample Depth (ft bgs)	16		16		15		14		16		14		14	
	Qc Code	FD		FS		FS		FS		FS		FS		FD	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5	10	U	10	U	10	U	10	U	**10**		10	U	10	U
1,1-Dichloroethane	5	10	U	10	U	10	U	10	U	**4.8**	**J**	10	U	10	U
1,1-Dichloroethene	5	10	U	10	U	10	U	10	U	10	U	**0.91**	**J**	**0.83**	**J**
1,4-Dichlorobenzene	3	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone	50*	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Acetone	50*	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Benzene	1	10	U	10	U	10	U	10	U	**6**	**J**	10	U	10	U
Chloroform	7	10	U	10	U	**3**	**J**	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	5	10	U	**16**		**2.6**	**J**	**98**		**11**		**47**		**51**	
Cyclohexane	NA	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Ethyl benzene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane	NA	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	10*	**29**	**J**	10	U	10	U	10	UJ	**7.8**	**J**	10	U	10	U
Methylene chloride	5	10	UJ	10	U	10	U	10	UJ	10	U	10	U	10	U
o-Xylene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	5	10	U	**4300**	**D**	**96**	**D**	**28**		**6.4**	**J**	**1.7**	**J**	**1.4**	**J**
Toluene	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	5	10	U	10	U	10	U	**5.1**	**J**	10	U	10	U	10	U
Trichloroethene	5	10	U	**200**		**3.9**	**J**	**98**		**3.3**	**J**	**33**		**34**	
Vinyl chloride	2	10	U	10	U	10	U	**0.88**	**J**	**6.3**	**J**	**6.5**	**J**	**6**	**J**
Xylene, m/p	5	10	U	10	U	10	U	10	U	10	U	10	U	10	U

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
B = Analyte was detected in the method blank
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards.
Highlighted results in **BOLD** exceed associated criteria

Table 4.2: Groundwater VOC Results - 2006

	Location	MW-1		MW-1R		MW-2		MW-3		MW-4		MW-5		MW-6	
	Sample Date	11/9/2006		11/7/2006		11/7/2006		11/6/2006		11/6/2006		11/8/2006		11/7/2006	
	Sample ID	ATMW01R01701XX		ATMW00101701XX		ATMW00201601XX		ATMW00301601XX		ATMW00401601XX		ATMW00501601XX		ATMW00601601XX	
	Sample Depth (ft bgs)	17		17		16		16		16		16		16	
	Qc Code	FS		FS		FS		FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5	100	U	10	U	250	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	5	100	U	10	U	250	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	5	100	U	10	U	250	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	3	100	U	10	U	250	U	10	U	10	U	10	U	**0.88**	**J**
2-Butanone	50*	500	U	50	U	1200	U	50	U	50	U	50	U	50	U
Acetone	50*	500	U	50	U	1200	U	50	U	50	U	50	U	50	U
Benzene	1	**70**	**J**	**1.5**	**J**	**2100**	**D**	10	U	**89**	**J**	10	U	**3.8**	**J**
Chloroform	7	100	U	10	U	250	U	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	5	100	U	10	U	250	U	10	U	**2.7**	**J**	10	U	10	U
Cyclohexane	NA	**87**	**J**	**10**		**220**	**JD**	10	U	**63**	**J**	10	U	**160**	
Ethyl benzene	5	**210**		**3.7**	**J**	**1700**	**D**	10	U	**5.2**	**J**	10	U	**9.4**	**J**
Isopropylbenzene	5	**19**	**J**	10	U	**70**	**JD**	10	U	**5.3**	**J**	10	U	**36**	
Methyl cyclohexane	NA	**67**	**J**	**6**	**J**	**110**	**JD**	10	U	**26**	**J**	10	U	**180**	
Methyl Tertbutyl Ether	10*	**19**	**J**	**6.4**	**J**	250	U	10	U	10	U	10	U	10	U
Methylene chloride	5	100	UJ	10	U	250	U	10	U	10	U	10	U	10	U
o-Xylene	5	**32**	**J**	**3.3**	**J**	**1200**	**D**	10	U	**2.6**	**J**	10	U	10	U
Tetrachloroethene	5	100	U	10	U	250	U	10	U	10	U	10	U	10	U
Toluene	5	**79**	**J**	**2.1**	**J**	**1100**	**D**	10	U	**6.1**	**J**	10	U	**1.4**	**J**
trans-1,2-Dichloroethene	5	100	U	10	U	250	U	10	U	10	U	10	U	**1.2**	**J**
Trichloroethene	5	100	U	10	U	250	U	10	U	10	U	10	U	10	U
Vinyl chloride	2	100	U	10	U	250	U	10	U	**3.1**	**J**	10	U	10	U
Xylene, m/p	5	**210**		**8.4**	**J**	**5800**	**D**	10	U	**6.8**	**J**	10	U	**2.8**	**J**

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
B = Analyte was detected in the method blank
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards.
Highlighted results in **BOLD** exceed associated criteria

Table 4.2: Groundwater VOC Results - 2006

	Location	MW-7		MW-8		MW-8		MW-9		DCGW-2		DCGW-10		DCMW-1	
	Sample Date	11/7/2006		11/8/2006		11/8/2006		11/9/2006		11/16/2006		11/10/2006		10/31/2006	
	Sample ID	ATMW00701601XX		ATMW00801601XX		ATMW00801601XD		ATMW00901701XX		ATDCGW201502XX		ATDCW1001501XX		ATDCMW101801XX	
	Sample Depth (ft bgs)	16		16		16		17		15		15		18	
	Qc Code	FS		FS		FD		FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5	10	U	**1.1**	**J**	10	UJ	10	U	10	U	0.5	U	10	U
1,1-Dichloroethane	5	10	U	10	U	10	UJ	10	U	10	U	0.5	U	10	U
1,1-Dichloroethene	5	10	U	10	U	10	UJ	10	U	10	U	0.5	U	10	U
1,4-Dichlorobenzene	3	10	U	10	U	10	UJ	10	U	10	U	0.5	U	10	U
2-Butanone	50*	50	U	50	U	50	UJ	50	U	50	U	0.5	U	10	U
Acetone	50*	50	U	50	U	50	UJ	50	U	50	U	0.5	U	10	U
Benzene	1	10	U	10	U	10	UJ	**10**		10	U	0.5	U	10	U
Chloroform	7	10	U	10	U	10	UJ	10	U	10	U	0.5	U	10	U
Cis-1,2-Dichloroethene	5	10	U	**3**	**J**	**2.7**	**J**	**32**		**31**		**1.2**	**J**	**10**	
Cyclohexane	NA	10	U	10	U	10	UJ	**18**		10	U	0.5	U	10	U
Ethyl benzene	5	10	U	10	U	10	UJ	**31**		10	U	0.5	U	10	U
Isopropylbenzene	5	10	U	10	U	10	UJ	**5.1**	**J**	10	U	0.5	U	10	U
Methyl cyclohexane	NA	10	U	10	U	10	UJ	**5.7**	**J**	10	U	0.5	U	10	U
Methyl Tertbutyl Ether	10*	**20**	**J**	**10**	**J**	**11**	**J**	**14**		10	U	0.5	U	10	U
Methylene chloride	5	10	U	10	U	10	UJ	10	UJ	10	U	0.5	U	10	U
o-Xylene	5	10	U	10	U	10	UJ	**21**		10	U	0.5	U	10	U
Tetrachloroethene	5	10	U	10	U	10	UJ	**12**		**210**	**D**	**9.9**	**J**	**26**	
Toluene	5	10	U	10	U	10	UJ	**7.5**	**J**	10	U	0.5	U	10	U
trans-1,2-Dichloroethene	5	10	U	10	U	10	UJ	10	U	10	U	0.5	U	10	U
Trichloroethene	5	10	U	**5.3**	**J**	**5.8**	**J**	**12**		**27**		0.5	U	**7**	**J**
Vinyl chloride	2	10	U	10	U	10	UJ	10	U	10	U	0.5	U	10	U
Xylene, m/p	5	10	U	10	U	10	UJ	**54**		10	U	0.5	U	10	U

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
B = Analyte was detected in the method blank
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*Criteria are New York State Groundwater Guidance Standards.
Highlighted results in **BOLD** exceed associated criteria

Table 4.2: Groundwater VOC Results - 2006

	Location	DCMW-2		DCMW-3		DCMW-4		DCMW-5	
	Sample Date	11/10/2006		11/10/2006		11/9/2006		11/10/2006	
	Sample ID	ATDCMW202101XX		ATDCMW302101XX		ATDCMW401801XX		ATDCMW502001XX	
	Sample Depth (ft bgs)	21		21		18		20	
	Qc Code	FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ
1,1-Dichloroethane	5	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ
1,1-Dichloroethene	5	0.5	UJ	0.5	U	0.5	UJ	**1.6**	**J**
1,4-Dichlorobenzene	3	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ
2-Butanone	50*	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ
Acetone	50*	0.5	UJ	0.5	U	0.5	UJ	**4.8**	**JB**
Benzene	1	0.5	UJ	0.5	U	0.5	UJ	**1.8**	**J**
Chloroform	7	0.5	UJ	**2.3**	**J**	0.5	UJ	0.5	UJ
Cis-1,2-Dichloroethene	5	**65**	**J**	**18**		**33**	**J**	**1500**	**D**
Cyclohexane	NA	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ
Ethyl benzene	5	0.5	UJ	0.5	U	0.5	UJ	**7.1**	**J**
Isopropylbenzene	5	0.5	UJ	0.5	U	0.5	UJ	**14**	**J**
Methyl cyclohexane	NA	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ
Methyl Tertbutyl Ether	10*	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ
Methylene chloride	5	0.5	UJ	0.5	U	**0.87**	**J**	0.5	UJ
o-Xylene	5	0.5	UJ	0.5	U	0.5	UJ	**80**	**J**
Tetrachloroethene	5	**220**	**D**	**28**		**890**	**D**	**79**	**J**
Toluene	5	0.5	UJ	0.5	U	0.5	UJ	**6.3**	**J**
trans-1,2-Dichloroethene	5	0.5	UJ	0.5	U	0.5	UJ	**2.2**	**J**
Trichloroethene	5	**15**	**J**	**4.1**	**J**	**10**	**J**	**11**	**J**
Vinyl chloride	2	0.5	UJ	0.5	U	0.5	UJ	**130**	**J**
Xylene, m/p	5	0.5	UJ	0.5	U	0.5	UJ	**31**	**J**

Notes:
Only Detected Compounds shown.
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Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
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Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards.
Highlighted results in **BOLD** exceed associated criteria

Table 4.3: Groundwater VOC Results - 2007

	Location	GW-035		GW-035		GW-039		GW-039		GW-040		GW-041	
	Sample Date	8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/28/2007	
	Sample ID	ATGW03501701XX		ATGW03502701XX		ATGW03901801DU		ATGW03901801XX		ATGW04001701XX		ATGW04101701XX	
	Sample Depth (ft bgs)	17		27		18		18		17		17	
	Qc Code	FS		FS		FD		FS		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	10	U	**78**		**3.7**	**J**	**3.3**	**J**	**1.6**	**J**	10	U
1,1-Dichloroethane	5	**4**	**J**	**27**		10	U	10	UJ	10	U	10	U
1,1-Dichloroethene	5	10	UJ	**6.8**	**J**	10	UJ	10	UJ	10	UJ	10	UJ
Benzene	1	**9.5**	**J**	**4.4**	**J**	10	U	10	UJ	**1.1**	**J**	**3.8**	**J**
Cis-1,2-Dichloroethene	5	**5.1**	**J**	**65**		**35**		**30**	**J**	**14**		**6.6**	**J**
Cyclohexane	NA	10	U	10	U	10	U	10	UJ	10	U	10	U
Methyl Tertbutyl Ether	10*	10	U	**6.5**	**J**	10	U	10	UJ	10	U	10	U
Methylene chloride	5	10	U	10	U	10	U	10	UJ	10	U	10	U
Tetrachloroethene	5	10	U	10	U	10	U	10	UJ	10	U	10	U
Trichloroethene	5	10	U	**15**		10	U	10	UJ	**1.6**	**J**	10	U

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Values.
Highlighted results in **BOLD** exceed associated criteria

Table 4.3: Groundwater VOC Results - 2007

	Location	GW-042		GW-043		GW-044		GW-045		GW-046		GW-046	
	Sample Date	8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/29/2007		8/29/2007	
	Sample ID	ATGW04201701XX		ATGW04301701XX		ATGW04401901XX		ATGW04501901XX		ATGW04601901DU		ATGW04601901XX	
	Sample Depth (ft bgs)	17		17		19		19		19		19	
	Qc Code	FS		FS		FS		FS		FD		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	**9.3**	**J**	10	UJ	50	UJ	10	UJ	10	U	10	U
1,1-Dichloroethane	5	10	U	10	UJ	50	UJ	10	UJ	10	U	10	U
1,1-Dichloroethene	5	10	UJ	10	UJ	50	UJ	10	UJ	10	UJ	10	UJ
Benzene	1	10	U	10	UJ	50	UJ	10	UJ	10	U	10	U
Cis-1,2-Dichloroethene	5	**26**		**11**	**J**	50	UJ	**91**	**D**	**88**	**J**	**81**	**J**
Cyclohexane	NA	10	U	10	UJ	50	UJ	10	UJ	**5.1**	**J**	**5.5**	**J**
Methyl Tertbutyl Ether	10*	**3.3**	**J**	10	UJ	50	UJ	10	UJ	**5.7**	**J**	**5.5**	**J**
Methylene chloride	5	10	U	10	UJ	50	UJ	10	UJ	10	U	10	U
Tetrachloroethene	5	**19**		**850**	**DJ**	50	UJ	**900**	**D**	**490**	**DJ**	**470**	**DJ**
Trichloroethene	5	**30**		**76**	**J**	50	UJ	**100**	**D**	**86**	**J**	**82**	**J**

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Values
Highlighted results in **BOLD** exceed associated criteria

Table 4.3: Groundwater VOC Results - 2007

	Location	GW-047		GW-047		GW-048		GW-048		GW-049	
	Sample Date	8/29/2007		8/29/2007		8/29/2007		8/29/2007		8/29/2007	
	Sample ID	ATGW04701701XX		ATGW04702701XX		ATGW04801701XX		ATGW04802701XX		ATGW04901701XX	
	Sample Depth (ft bgs)	17		27		17		27		17	
	Qc Code	FS		FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5	10	U	10	U	10	U	50	U	**2**	**J**
1,1-Dichloroethane	5	10	U	10	U	10	U	50	U	10	U
1,1-Dichloroethene	5	10	UJ	10	UJ	10	UJ	50	UJ	10	UJ
Benzene	1	10	U	10	U	10	U	50	U	10	U
Cis-1,2-Dichloroethene	5	**3.7**	**J**	**3.8**	**J**	**43**		**45**	**J**	10	U
Cyclohexane	NA	10	U	10	U	10	U	50	U	10	U
Methyl Tertbutyl Ether	10*	**2.8**	**J**	**3.7**	**J**	10	U	50	U	10	U
Methylene chloride	5	**3.5**	**J**	**12**		10	U	**54**		**1.6**	**J**
Tetrachloroethene	5	10	U	10	U	10	U	50	U	10	U
Trichloroethene	5	10	U	10	U	10	U	50	U	**3.2**	**J**

Notes:
Only Detected Compounds shown.
Samples analyzed for VOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Values
Highlighted results in **BOLD** exceed associated criteria

Table 4.4: Groundwater SVOC Results

	Location	GW-4		GW-9		GW-13		GW-20		MW-1	
	Sample Date	11/8/2006		11/7/2006		11/7/2006		11/9/2006		11/9/2006	
	Sample ID	ATGW00401701XX		ATGW00901701XX		ATGW01301701XX		ATGW02002601XX		ATMW01R01701XX	
	Sample Depth (ft bgs)	17		17		17		26		17	
	Qc Code	FS		FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
2,4-Dimethylphenol	50*	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	NA	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	NA	10	U	10	U	10	U	10	U	10	U
Bis(2-Ethylhexyl)phthalate	5	10	U	10	U	10	U	**4.9**	**J**	10	U
Di-n-butylphthalate	50*	10	U	10	U	**2.7**	**J**	10	U	10	U
Naphthalene	10*	10	U	10	U	10	U	10	U	10	U
Phenol	1**	10	U	10	U	10	U	10	U	10	U

Notes:
Only Detected Compounds shown.
Samples analyzed for SVOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result reported from a diluted analytical run.
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards.
**Standard for total phenol based on aesthetics is 1 µg/L
Highlighted results in **BOLD** exceed associated criteria

Table 4.4: Groundwater SVOC Results

Location		MW-1R		MW-2		MW-3		MW-4		MW-5	
Sample Date		11/7/2006		11/7/2006		11/6/2006		11/6/2006		11/8/2006	
Sample ID		ATMW00101701XX		ATMW00201601XX		ATMW00301601XX		ATMW00401601XX		ATMW00501601XX	
Sample Depth (ft bgs)		17		16		16		16		16	
Qc Code		FS		FS		FS		FS		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
2,4-Dimethylphenol	50*	10	U	**22**		10	U	10	U	10	U
2-Methylnaphthalene	NA	10	U	**53**		10	U	10	U	10	U
4-Methylphenol	NA	10	U	**9.9**	**J**	10	U	10	U	10	U
Bis(2-Ethylhexyl)phthalate	5	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	50*	10	U	10	U	10	U	10	U	10	U
Naphthalene	10*	10	U	**240**	**D**	10	U	10	U	10	U
Phenol	1**	10	U	**17**		10	U	10	U	10	U

Notes:
Only Detected Compounds shown.
Samples analyzed for SVOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result reported from a diluted analytical run.
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards
**Standard for total phenol based on aesthetics is 1 µg/L
Highlighted results in **BOLD** exceed associated criteria

Table 4.4: Groundwater SVOC Results

	Location	MW-6		MW-7		MW-8		MW-8		MW-9	
	Sample Date	11/7/2006		11/7/2006		11/8/2006		11/8/2006		11/9/2006	
	Sample ID	ATMW00601601XX		ATMW00701601XX		ATMW00801601XX		ATMW00801601XD		ATMW00901701XX	
	Sample Depth (ft bgs)	16		16		16		16		17	
	Qc Code	FS		FS		FS		FD		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
2,4-Dimethylphenol	50*	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	NA	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	NA	10	U	10	U	10	U	10	U	10	U
Bis(2-Ethylhexyl)phthalate	5	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	50*	10	U	10	U	10	U	10	U	10	U
Naphthalene	10*	10	U	10	U	10	U	10	U	10	U
Phenol	1**	10	U	10	U	10	U	10	U	10	U

Notes:
Only Detected Compounds shown.
Samples analyzed for SVOCs by USEPA Method OLM04.3.
Results in microgram per liter (µg/L)
ft bgs = feet below ground surface
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result reported from a diluted analytical run.
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 2006).
*Criteria are New York State Groundwater Guidance Standards
**Standard for total phenol based on aesthetics is 1 µg/L
Highlighted results in **BOLD** exceed associated criteria

Table 4.5: Soil Vapor Results

Location	GV-01		GV-02		GV-03		SV-1	
Sample Date	11/8/2006		11/8/2006		11/9/2006		12/19/2006	
Sample ID	ATGV00101201XX		ATGV00201001XX		ATGV00301201XX		ATSV00100101XX	
Sample Depth	12 feet bgs		10 feet bgs		12 feet bgs		1 foot bgs	
QC Code	FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5.44	U	**298**		5.44	U	**13.1**	
1,1,2,2-Tetrachloroethane	**9.62**		6.87	U	6.87	U	13.74	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	**10.7**		7.65	U	7.65	U	15.3	U
1,1-Dichloroethane	4.05	U	**11.7**		4.05	U	8.1	U
1,2,4-Trichlorobenzene	**14.8**	**J**	7.4	U	7.4	U	14.81	UJ
1,2,4-Trimethylbenzene	**26**		4.91	U	4.91	U	9.82	UJ
1,2-Dichlorobenzene	**7.21**		6.01	U	6.01	U	12.02	UJ
1,3,5-Trimethylbenzene	**11.8**		4.91	U	4.91	U	9.82	UJ
1,3-Dichlorobenzene	**6.61**		6.01	U	6.01	U	12.02	UJ
1,4-Dichlorobenzene	**7.21**		6.01	U	6.01	U	12.02	UJ
2-Butanone	5.89	U	**16.5**		5.89	U	11.78	UJ
4-Ethyltoluene	**13.7**	**J**	4.91	UJ	4.91	U	9.82	UJ
Acetone	4.74	U	4.74	U	4.74	U	**50.8**	
Benzene	**12.8**		**20.1**		**10.8**		6.38	UJ
Bromoform	**12.4**		10.35	U	10.35	U	20.7	UJ
Bromomethane	**5.44**		3.89	U	3.89	U	7.77	U
Carbon tetrachloride	**7.56**		6.3	U	6.3	U	12.6	UJ
Chlorobenzene	**6.01**		4.62	U	4.62	U	9.24	UJ
Chlorodibromomethane	**11.9**		8.51	U	8.51	U	17.01	UJ
Chloroethane	**3.72**		2.66	U	2.66	U	5.32	U
Chloroform	**17**		**37**		**27.7**		**23.4**	
Cis-1,2-Dichloroethene	**6.35**		**20.2**		3.97	U	**129**	
Cyclohexane	3.35	UJ	**32.5**	**J**	3.35	U	6.71	U
Dichlorodifluoromethane	**6.93**		4.95	U	4.95	U	9.9	U
Ethyl benzene	**12.6**		4.34	U	4.34	U	8.67	UJ
Heptane	**16.8**		**55.6**		**20.9**		8.18	U
Hexane	7.03	U	**178**		**84.8**		14.07	U
Isooctane	**1,166**	**J**	5	U	5	U	**41**	**J**
Methylene chloride	**10.1**		6.95	U	6.95	U	**16**	
o-Xylene	**9.97**		4.34	U	4.34	U	8.67	UJ
Propylene	**1,944**	**D**	**523**	**D**	**602**	**D**	17	U
Tetrachloroethene	**17**		**38.7**		**31.9**		**1310**	**J**
Toluene	**19.6**		**46.3**		**9.78**		7.53	UJ
trans-1,2-Dichloroethene	**6.35**		**5.95**		3.97	U	**14.3**	
Trichloroethene	5.36	U	**1737**	**D**	**20.9**		**17472**	**EDJ**
Trichlorofluoromethane	**6.72**		5.6	U	5.6	U	11.21	U
Vinyl chloride	**3.07**		2.56	U	2.56	U	5.11	U
Xylene, m/p	**52.9**		**11.3**		8.67	U	17.34	UJ

Notes:
Location - GV = Exterior geoprobe soil vapor sample; SV = sub-slab soil vapor sample
Only Detected Compounds shown. Samples analyzed for VOCs by USEPA Method TO-15.
ft bgs = feet below ground surface
Results in microgram per cubic meter (µg/m3)
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
J = Estimated value
D = Result is reported from a diluted analytical run
E = Result exceeded the calibration curve of the instrument

Highlighted tetrachloroethene and trichloroethene results exceed the sub-slab guidance criteria of 1000 µg/m3 and 250 µg/m3, respectively, recommended for mitigation, without consideration of indoor air concentrations, as established in Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2005).

Table 4.6 Hydraulic Conductivity Calculations

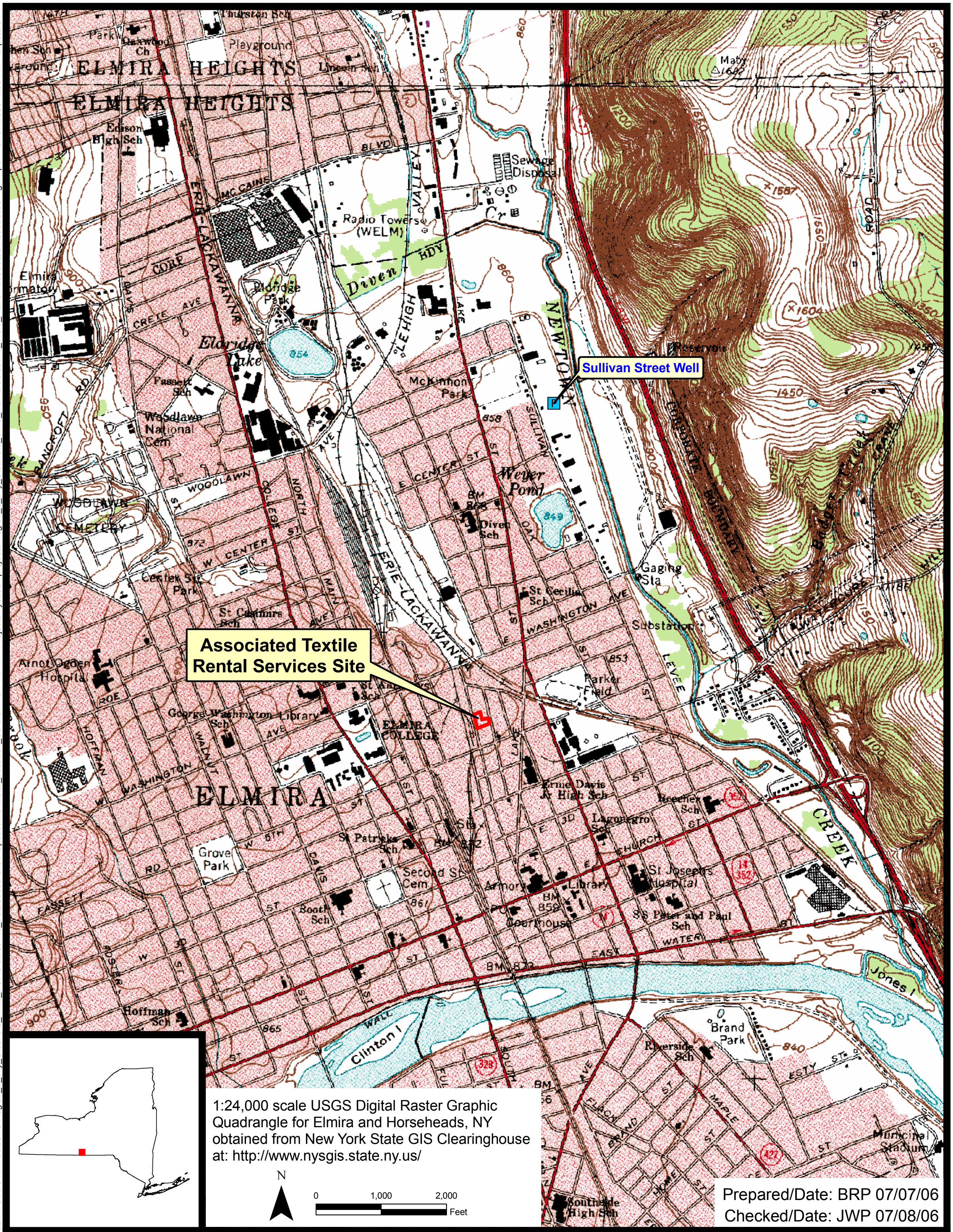
Associated Textile/Diamond Cleaners, Village of Elmira, NY

Well	Test #	Method	K values (ft/min)	Geometric mean	K values (ft/day)	V = Ki/n (ft/day)	V (ft/year)
MW-3	RHT-1	Bouwer-Rice	0.001349	0.001551	2.2	0.01	4.5
MW-3	RHT-1	Hvorslev	0.002498				
MW-3	RHT-2	Bouwer-Rice	0.001007				
MW-3	RHT-2	Hvorslev	0.001707				
MW-9	RHT-1	Bouwer-Rice	0.003071	0.004455	6.4	0.04	12.9
MW-9	RHT-1	Hvorslev	0.005495				
MW-9	RHT-2	Bouwer-Rice	0.003611				
MW-9	RHT-2	Hvorslev	0.006462				
DCMW-3	RHT-1	Bouwer-Rice	0.008756	0.013236	19.1	0.10	38.3
DCMW-3	RHT-1	Hvorslev	0.01268				
DCMW-3	RHT-2	Bouwer-Rice	0.01458				
DCMW-3	RHT-2	Hvorslev	0.01896				
DCMW-4	RHT-1	Bouwer-Rice	0.0007326	0.003157	4.5	0.03	9.1
DCMW-4	RHT-1	Hvorslev	0.001483				
DCMW-4	RHT-2	Bouwer-Rice	0.0009719				
DCMW-4	RHT-2	Hvorslev	0.001934				
DCMW-5	RHT-1	Bouwer-Rice	0.007072	0.014538	20.9	0.12	42.0
DCMW-5	RHT-1	Hvorslev	0.01056				
DCMW-5	RHT-2	Bouwer-Rice	0.02051				
DCMW-5	RHT-2	Hvorslev	0.02916				

Average Velocity = 15 (ft/year)

FHT = Falling Head Slug Test
RHT = Rising Head Slug Test
ft/min = feet per minute
ft/day = feet per day
K = Hydraulic Conductivity
V = Velocity
i = Hydraulic gradient (average hydraulic gradient = 0.0011 feet per foot)
n = porosity (used 0.2)

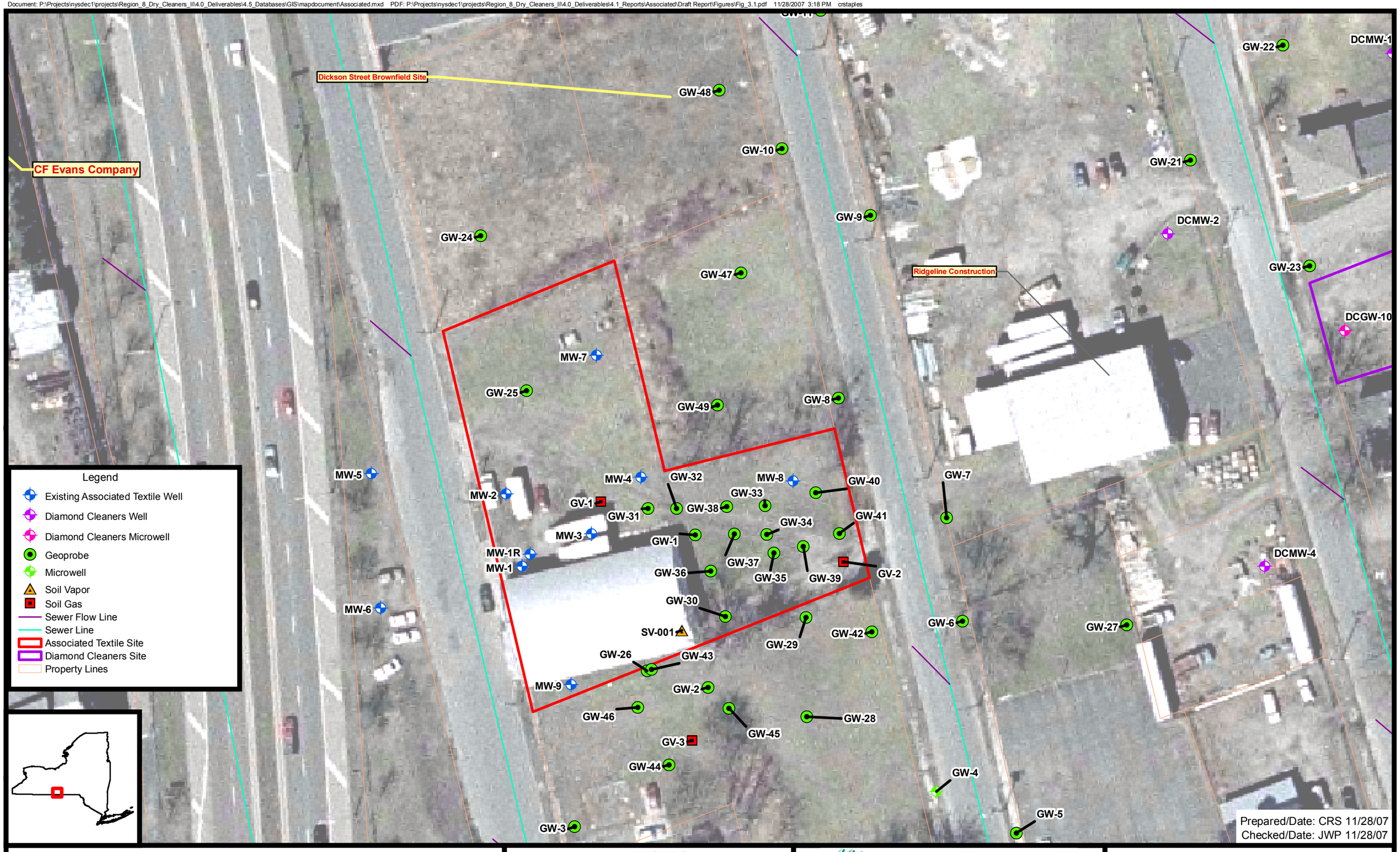
FIGURES



NYSDEC
Associated Textile Rental Services
Elmira, New York

MACTEC

Site Location
Project 3612-06-2046
Figure 1.1



2002 Aerial photograph from NYS GIS Clearinghouse.
Wells surveyed by Joseph Lu Engineers, February 6, 2007.
Geoprobe points located by MACTEC using GPS equipment.

NYSDEC
Associated Textile Rental Services Site
Elmira, New York

MACTEC

Sample Locations - 600 Scale

Project 3612-06-2059 Figure 3.1

Document: P:\Projects\nysdec1\projects\Region_8_Dry_Cleaners_II\4.0_Deliverables\4.5_Databases\GIS\mapdocument\Associated.mxd PDF: P:\Projects\nysdec1\projects\Region_8_Dry_Cleaners_II\4.0_Deliverables\4.1_Reports\Associated\Draft Report\Figures\Fig_3.2.pdf 11/28/2007 4:10 PM crstaples

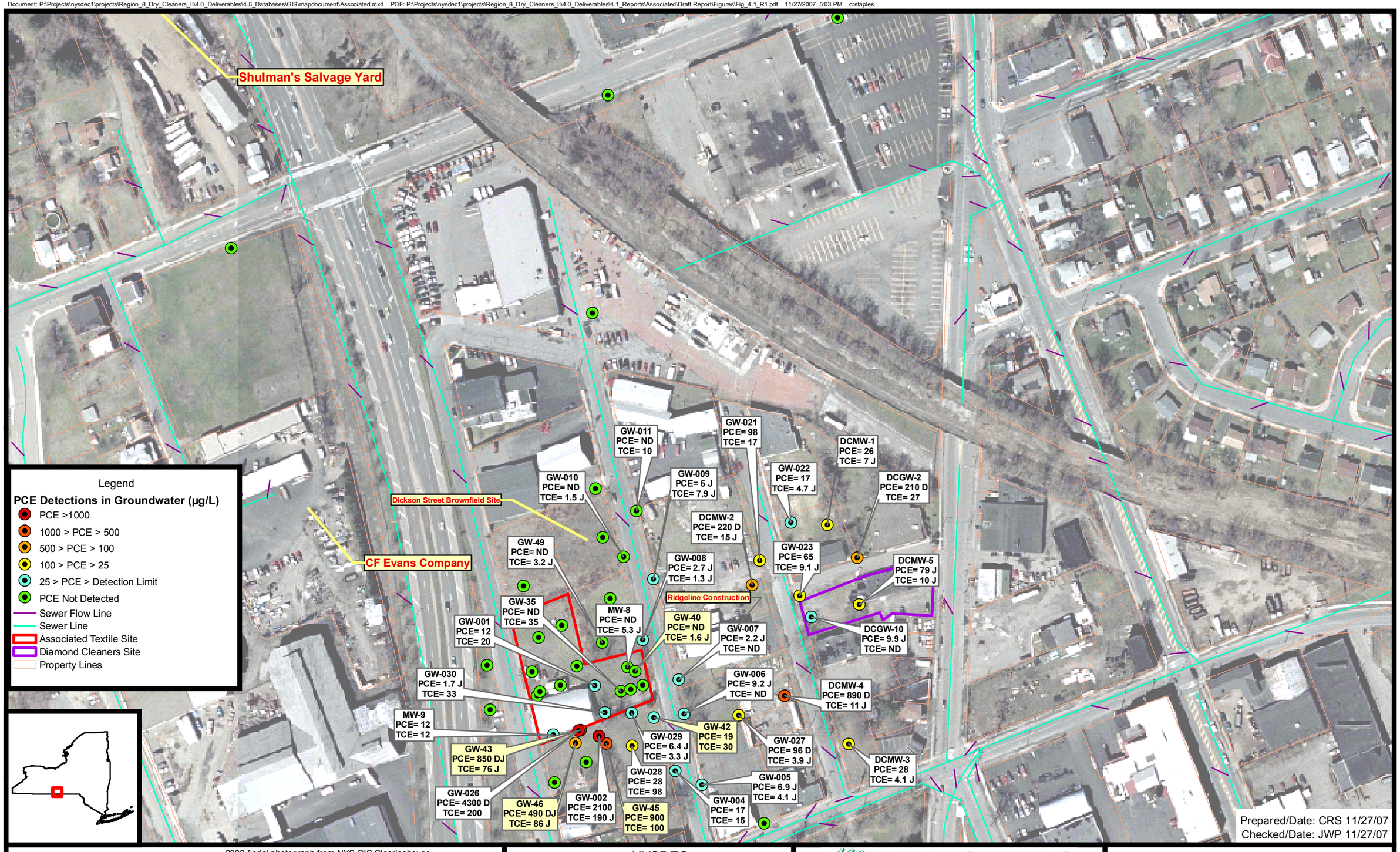
2002 Aerial photograph from NYS GIS Clearinghouse.
Wells surveyed by Joseph Lu Engineers, February 6, 2007.
Geoprobe points located by MACTEC using GPS equipment.

NYSDEC
Associated Textile Rental Services Site
Elmira, New York

MACTEC

Sample Locations - 1800 Scale

Project 3612-06-2059 Figure 3.2



N

0 75 150 Feet

2002 Aerial photograph from NYS GIS Clearinghouse.
Wells surveyed by Joseph Lu Engineers, February 6, 2007.
Geoprobe points located by MACTEC using GPS equipment.
Samples collected by MACTEC between 10/31/06 and 11/17/06 and on 8/28 and 29/07 (2007 sample results are highlighted in yellow).

NYSDEC
Associated Textile Rental Services Site
Elmira, New York

MACTEC

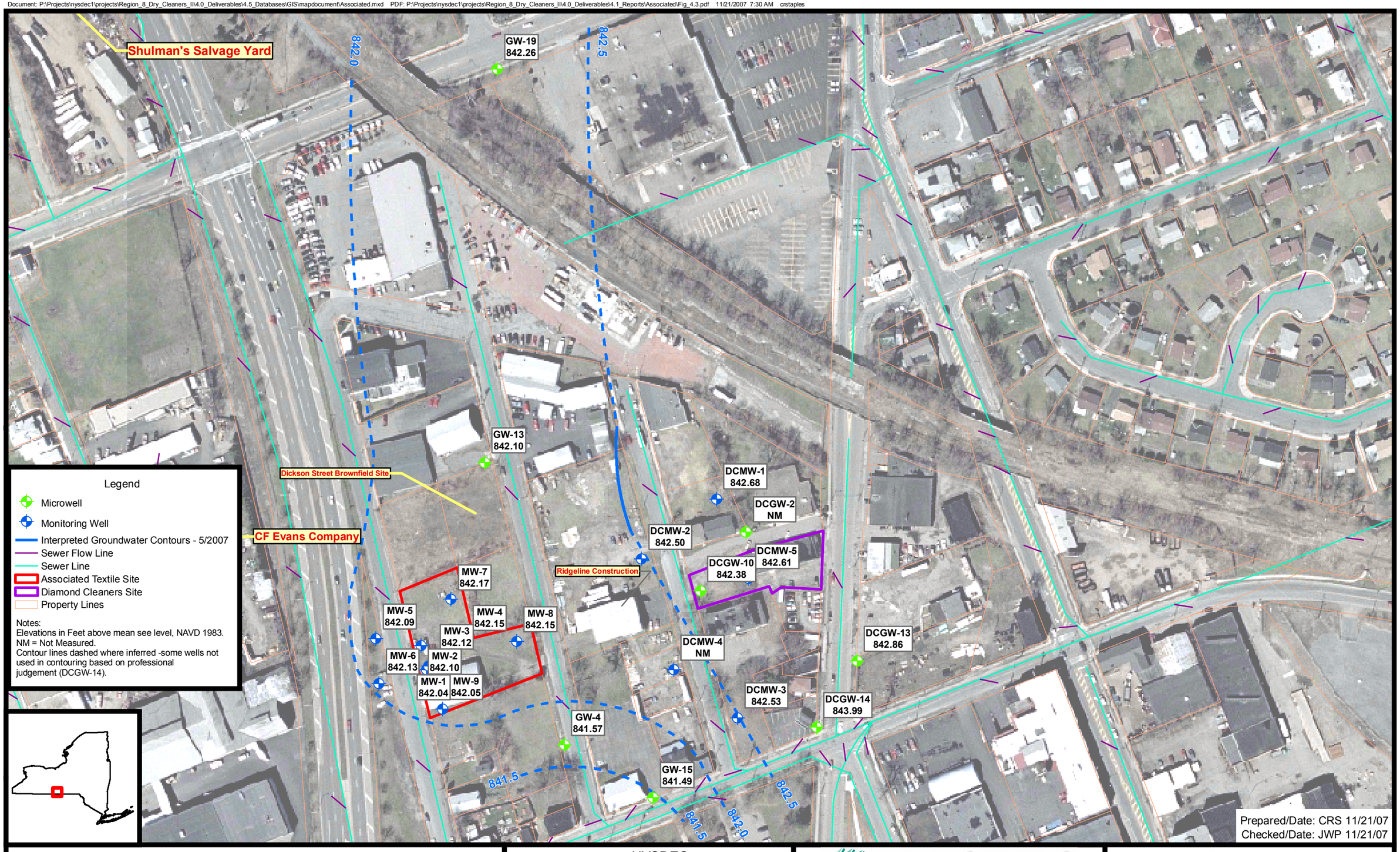
Maximum PCE Detections in Groundwater

Project 3612-06-2059 Figure 4.1

NYSDEC
Associated Textile Rental Services Site
Elmira, New York

MACTEC

Interpreted Groundwater Contours
November, 2006
Project 3612-06-2059 Figure 4.2



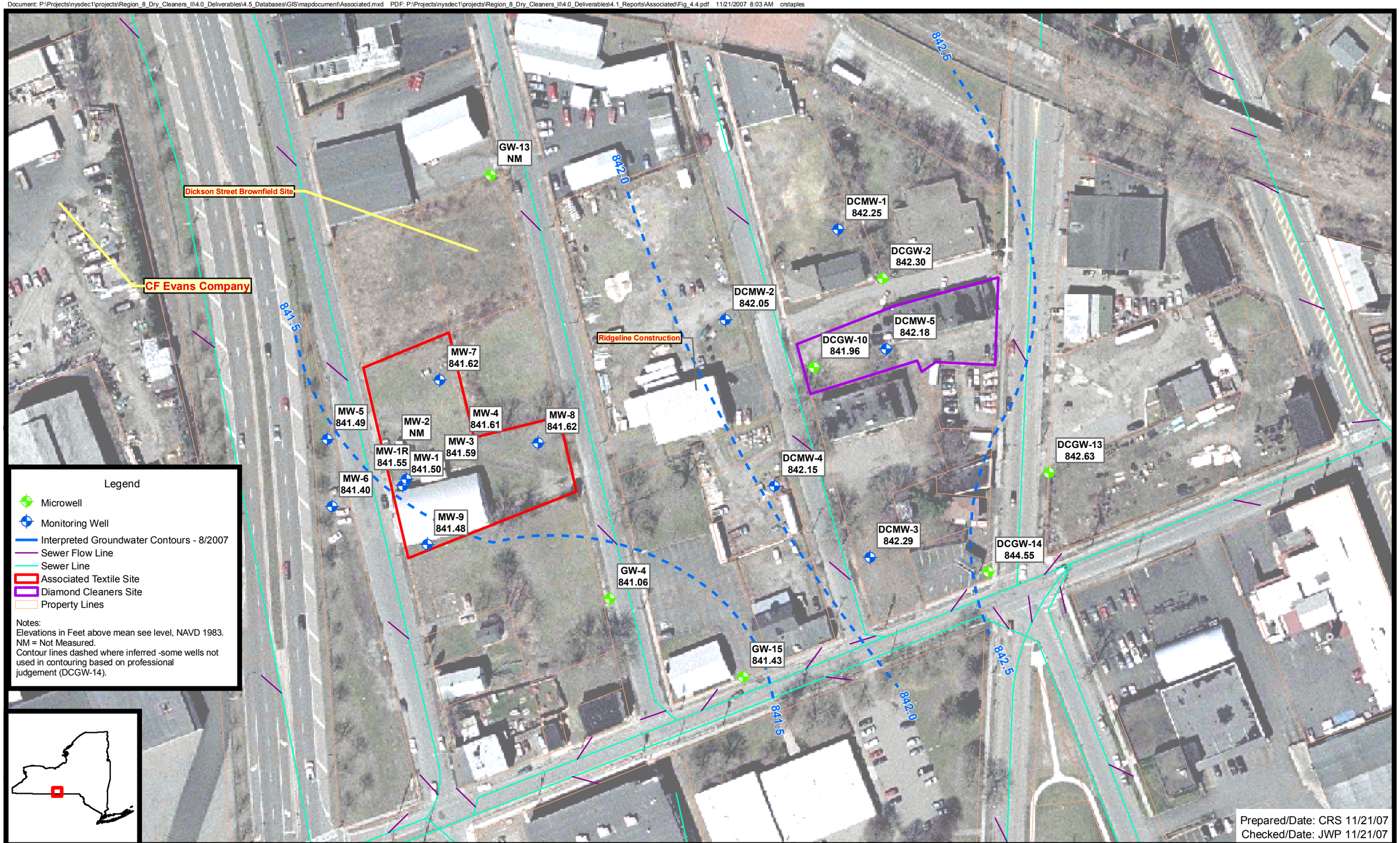
N
0 75 150
Feet

2002 Aerial photograph from NYS GIS Clearinghouse.
Wells surveyed by Joseph Lu Engineers, February 6, 2007.
Groundwater measurements collected by MACTEC 0n 5/10/07.

NYSDEC
Associated Textile Rental Services Site
Elmira, New York

MACTEC

Interpreted Groundwater Contours
May, 2007
Project 3612-06-2059 Figure 4.3



2002 Aerial photograph from NYS GIS Clearinghouse.
Wells surveyed by Joseph Lu Engineers, February 6, 2007.
Groundwater measurements collected by MACTEC 0n 8/29/07.

NYSDEC
Associated Textile Rental Services Site
Elmira, New York

MACTEC

Interpreted Groundwater Contours
August, 2007
Project 3612-06-2059 Figure 4.4

APPENDIX A

SITE RECORDS

O'BRIEN & GERE

April 10, 2006

Mr. Chad M. Kehoe
NYSDEC - Region 8
Division of Environmental Remediation
276 Sing Sing Road
Horseheads, NY 14845

Re: Spill #9210608

File: 4735/36922

Dear Mr. Kehoe:

Enclosed are the analytical results from the February 28, 2006 sampling of the ground water monitoring wells located 714 Baldwin Street, Elmira, New York (subject property). I have also attached copies of a summary table of the results (Attachment 1), and a ground water flow map based on the re-survey we had performed of the monitoring wells (Attachment 2). The analytical reports are included in Attachment 3. A review of this data indicates the following:

1. In general, volatile organic compounds (VOCs) typically associated with gasoline were found in most of the wells, but with no well-defined pattern. Chlorinated solvents were also detected in scattered wells.
2. Methyl tert-butyl ether (MTBE) was detected in four of the nine wells, but in scattered locations. The presence of MTBE indicates that there is a source of gasoline contamination in the area other than the historical uses of the property, since historical uses of gasoline well-predate the use of MTBE.
3. The ground water flow pattern in the area is relatively flat, but appears to flow towards the southeast. This pattern is consistent with previous findings. It should be noted that underground utilities in the area may influence local ground water flow patterns. Based on the ground water flow map included in Attachment 2, ground water appears to be slightly mounded near the area of MW-2 (see discussion below).
4. The highest concentrations of VOCs were found in MW-2. The sampling log for this well indicates that leaves, grass clippings, and other debris were also present in the well when it was sampled. The presence of these materials in the well indicates that MW-2 may have been impacted by surface run-off. The ground water mounding near MW-2 (see #3 above) also indicates that surface run-off may have entered the well. Since the subject property is located in an urban setting, surface run-off may have contributed to the elevated concentrations of VOCs in MW-2.
5. A search of historical Sanborn fire insurance maps show that the area has been under industrial use since at least the late 1800s and may have impacted regional ground water in the general area. The 1898 map shows the ATRS site as being occupied by houses and a Feed & Cider Mill. The property now occupied by Clements Parkway was occupied by numerous railroad tracks and a Locomotive House with an associated turntable. Locomotive houses were often used for

maintenance and repair work. The area across the railroad tracks from ATRS was occupied by Elmira Iron and Steel Works. More recent land uses have included the following:

C. F. Evans Company. The C.F. Evans site is located across Clements Parkway from ATRS and appears, based on the EPS ground water flow maps, to be upgradient from ATRS. The Evans site was formerly an Elmira DPW garage. In December 1994, C.F. Evans removed two underground storage tanks (USTs). The diesel UST was reported to be in good condition, but the gasoline UST had two large holes and underlying soils were heavily contaminated down to ground water. This spill incident was reported and assigned NYSDEC Spill #9412530. A vapor extraction system was installed and operated until 1996, and this spill is reportedly being closed. However, it is not clear how long releases occurred from this site, or whether it may have impacted ground water quality at the subject property. As a result, this may be a potential source of MTBE and other VOCs to the subject property.

Shulman Site. The Shulman property is located northwest (and upgradient) of the subject property. Since the late 1960s or early 1970s, the property has been operated as a metal salvaging business, including the salvaging of auto parts and the crushing of vehicles. In the 1980s, an initial site investigation was conducted and a work plan for a Remedial Investigation/Feasibility Study (RI/FS) was prepared. However, Shulman challenged the RI/FS work plan, and it was not implemented. NYSDEC files state that the property needs to be re-assessed as part of a Preliminary Site Assessment. Historical data indicate the presence of PCBs and low concentrations of VOCs, although investigative activities do not appear to have been extensive.

NYSDEC files also note that several Spill Reports have been filed for the property, with five of the incidents being classified as closed. The NYSDEC Spill Report Form for Spill #0485472 is included in Attachment 4 and indicates that on January 23, 2005 a caller observed "dumping of waste oil, gasoline, hydraulic oil and antifreeze onto the ground" and that "liquids are not drained and collected." The Spill Incidents Database Search report for this spill on the NYSDEC web site lists the spilled material as being gasoline. NYSDEC personnel visited the site several times since the report of the incident. On July 14, 2005, a Shulman representative told NYSDEC that samples had been collected. At the time of O'Brien & Gere's file review, (August 19, 2005), the last action on the spill report indicated that on August 2, 2005, NYSDEC called the site and results had not been received from the laboratory. It is not clear whether potential impacts to ground water have been assessed from this site. The Shulman site is approximately 1,000 feet from the ATRS property in an upgradient location. As a result, this may be a potential source of MBTE and other VOCs to the subject property.

717-727 Dickinson Street Brownfield Site. The City of Elmira currently owns this site, and has applied to NYSDEC under the Environmental Restoration Program (Brownfield) to address on-site contamination. The basis for the request is that the site was operated as an automotive junkyard for approximately 50 years. However, there appears to be a discrepancy in the site description with regards to site history. The brownfield site is broken into two parcels. Both parcels are noted as having been operated as an automotive junkyard from 1931-1988. However, Sanborn Fire Insurance maps indicate that 727 Dickinson Street was part of a larger parcel extending to Baldwin Street, including the property immediately north of ATRS, and that this combined parcel was operated as a junk yard during the previously stated period. The 717 Dickinson parcel is noted as residential homes until 1950. On the 1988 map, the area of 717

parcel appears to have been vacant but still noted as four smaller lots. The 717 Dickinson Street parcel is located adjacent to the ATRS site to the east.

This historic information appears to be confirmed by test pits and soil samples from the site. Test pits on the 727 parcel showed evidence of black stained soil, car parts, ash, and a green/white crystalline material. Soil samples that were collected in these areas contained low concentrations of PCBs and semivolatile organic compounds (SVOCs). Only one soil sample was analyzed for volatile organic compounds (VOCs), with no detectable concentrations being found. The five test pits from the 717 parcel showed ash, brick and wood. Ground water samples were not collected at either parcel.

In summary, although the City of Elmira's 717-727 Dickinson Street Brownfield Site does not include the parcel located immediately north and upgradient of the subject property, this parcel was also historically used as a junkyard and is therefore likely contaminated. However, apparently no data has been generated regarding this parcel. Ownership of this parcel has not been determined by O'Brien & Gere.

Summary and Conclusions

VOCs were detected at various concentrations across the site, with no apparent pattern indicating an on-site contaminant source. The highest concentrations of VOCs were detected in MW-2; however, this well also contained leaves and grass clippings, indicating that it has been impacted from surface run-off. This potential impact is also supported by the ground water contour map that indicates a slight mounding of ground water in the area around MW-2. Based on the current and previous assessments of ground water flow direction, MW-2 is located on the upgradient side of the property. Ground water monitoring wells located downgradient from MW-2 indicate much lower concentrations of VOCs. A search of historical fire insurance maps and NYSDEC files also indicate that areas upgradient of the subject property have been under various industrial uses for over 100 years, and that releases of VOCs have been documented at several locations in the area.

It is clear that the diversity of historical land uses in the area of the subject property may have impacted the regional ground water quality. Due to the complexity of the issues concerning ground water in the area, ATRS would like to meet with NYSDEC to discuss these factors and their impact on how to proceed. Please contact me after you've had a chance to review this information so we can discuss how to proceed on this matter.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

David K. Meixell, P.E.
Senior Project Engineer

cc: Mr. Robert Evans – Associated Textile Rental Services, Inc.
Louis Abelove, Esq.
Judy Drabicki, Esq.

ATTACHMENT 1

SUMMARY TABLE

Summary of February 28, 2006 Ground Water Sampling
Associated Textile Rental Services, Inc.
714 Baldwin Street
Elmira, New York
(µg/L)

Parameter	MW-1R	MW-2	MW-2 (dup)	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	NYSDEC Class GA
1,1,1-Trichloroethane	<2.5	<25	<25	<0.5	<2.5	<0.5	<2.5	<0.5	**71.0**	<0.5	*
1,1-Dichloroethane	<2.5	<25	<25	<0.5	<2.5	<0.5	<2.5	<0.5	2.76	<0.5	*
1,1-Dichloroethene	<2.5	<25	<25	<0.5	<2.5	<0.5	<2.5	<0.5	0.77	<0.5	*
1,2,4-Trimethylbenzene	**46.9**	**1,230**	**1,330**	<0.5	4.35	<0.5	<2.5	<0.5	<0.5	**46.8**	*
1,3,5-Trimethylbenzene	**8.5**	**296**	**324**	<0.5	<2.5	<0.5	<2.5	<0.5	<0.5	**7.56**	*
Benzene	**17.2**	**1,620**	**1,740**	<0.5	**100**	<0.5	**20.9**	<0.5	<0.5	<0.5	1
Chloroform	<2.5	<25	<25	0.60	<2.5	2.31	<2.5	<0.5	<0.5	<0.5	7
cis-1,2-Dichloroethene	<2.5	<25	<25	<0.5	<2.5	<0.5	<2.5	<0.5	**23.2**	**68.1**	*
Ethylbenzene	**58.1**	**795**	**854**	<0.5	**10.6**	<0.5	3.8	<0.5	<0.5	**26.4**	*
Isopropylbenzene	<2.5	**42.5**	**46.5**	<0.5	**8.35**	<0.5	**26.5**	<0.5	<0.5	4.36	*
Methyl tert-butyl ether	16.2	<25	<25	<0.5	<2.5	<0.5	13.8	8.96	3.13	<0.5	NL
n-Propylbenzene	3.50	76.0	**83.0**	<0.5	4.55	<0.5	**29.6**	<0.5	<0.5	**5.54**	*
Naphthalene	6.05	140	158	<1.0	<5.0	<1.0	<5.0	<1.0	<1.0	5.36	NL
Tetrachloroethene	<2.5	<25	<25	<0.5	<2.5	<0.5	<2.5	<0.5	1.77	**32.2**	*
Toluene	**28.5**	**215**	**235**	<0.5	**9.35**	<0.5	<2.5	<0.5	<0.5	**6.72**	*
Trichloroethene	<2.5	<25	<25	<0.5	<2.5	<0.5	<2.5	<0.5	**225**	**18.8**	*
Vinyl chloride	<5.0	<50	<50	<1.0	**6.7**	<1.0	<5.0	<1.0	<1.0	1.10	2
Xylenes	**208**	**2,620**	**2,830**	<1.0	**19.5**	<1.0	5.0	<1.0	<1.0	**92.5**	*

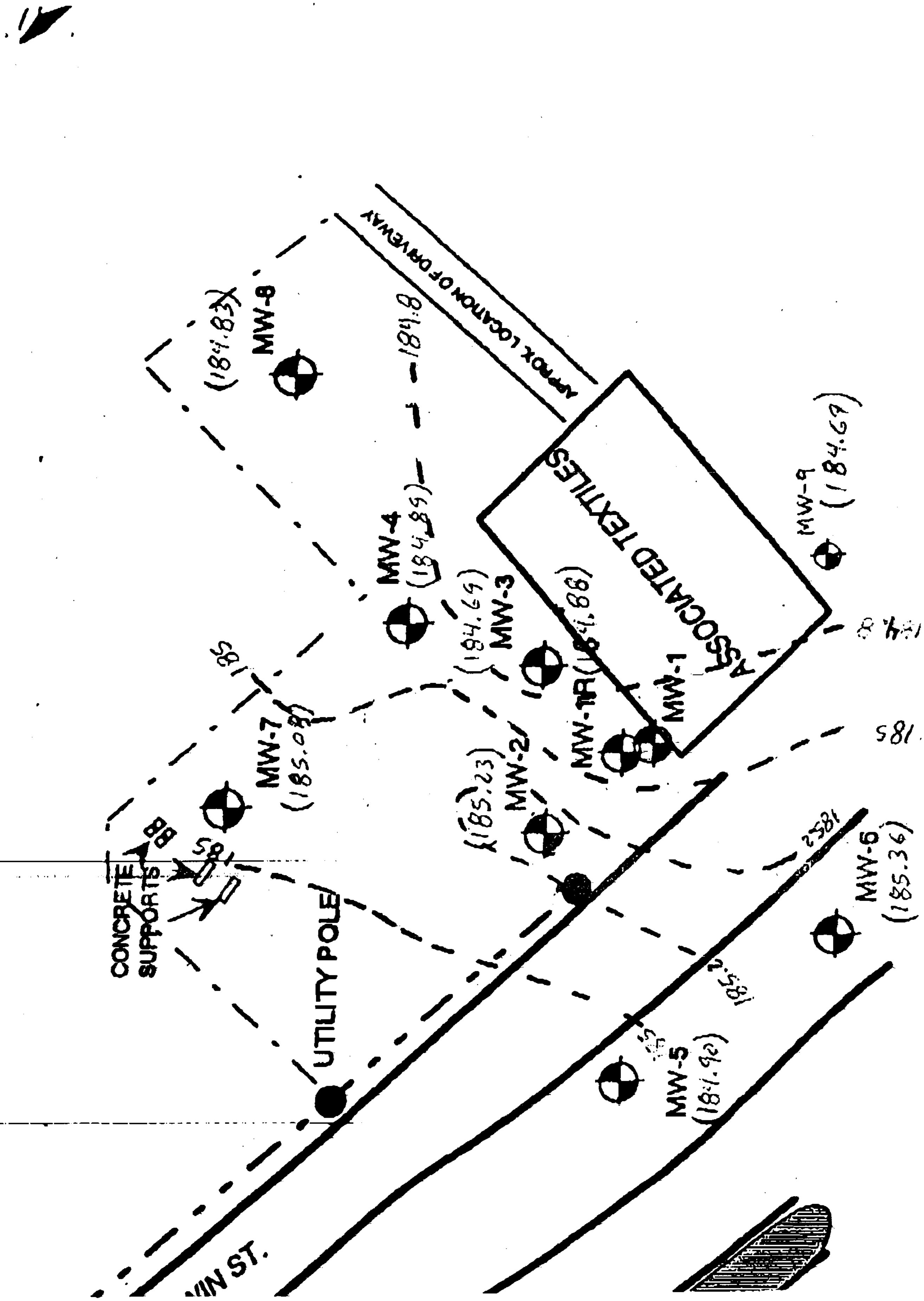
NL: Not Listed
BOLD indicates exceedances of Class GA standards

* The principle organic contaminant for ground water of 5 µg/L applies to these constituents.

I:\DIV82\PROJECTS\4735\36922\5_rpts\GWDataSum.doc

ATTACHMENT 2

GROUND WATER FLOW MAP


ASSOCIATED TEXTILES
APPROX LOCATION OF DRIVEWAY
MW-8
(184.83)
184.8
MW-4
(184.89)
MW-3
(184.69)
MW-1R
(184.86)
MW-1
MW-9
(184.69)
185
MW-7
(185.08)
MW-2
(185.23)
BB
CONCRETE SUPPORTS
UTILITY POLE
MW-6
(185.36)
MW-5
(184.92)
185.2
ST.

ATTACHMENT 3

ANALYTICAL DATA

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	*0603003-001A*
Project:	Associated Textiles	**Client Sample ID:**	*MW1R 022806*
W Order:	0603003	**Collection Date:**	02/28/06 14:15
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4697
Revision:	03/06/06 11:34:19 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2750.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		2.50	µg/L	5	03/03/06 11:26
1,1,1-Trichloroethane	ND		2.50	µg/L	5	03/03/06 11:26
1,1,2,2-Tetrachloroethane	ND		2.50	µg/L	5	03/03/06 11:26
1,1,2-Trichloroethane	ND		2.50	µg/L	5	03/03/06 11:26
1,1-Dichloroethane	ND		2.50	µg/L	5	03/03/06 11:26
1,1-Dichloroethene	ND		2.50	µg/L	5	03/03/06 11:26
1,1-Dichloropropene	ND		2.50	µg/L	5	03/03/06 11:26
1,2,3-Trichlorobenzene	ND		5.00	µg/L	5	03/03/06 11:26
1,2,3-Trichloropropane	ND		2.50	µg/L	5	03/03/06 11:26
1,2,4-Trichlorobenzene	ND		5.00	µg/L	5	03/03/06 11:26
1,2,4-Trimethylbenzene	46.9		2.50	µg/L	5	03/03/06 11:26
1,2-Dibromo-3-chloropropane	ND		5.00	µg/L	5	03/03/06 11:26
1,2-Dibromoethane	ND		2.50	µg/L	5	03/03/06 11:26
1,2-Dichlorobenzene	ND		2.50	µg/L	5	03/03/06 11:26
1,2-Dichloroethane	ND		2.50	µg/L	5	03/03/06 11:26
1,2-Dichloropropane	ND		2.50	µg/L	5	03/03/06 11:26
1,3,5-Trimethylbenzene	8.50		2.50	µg/L	5	03/03/06 11:26
1,3-Dichlorobenzene	ND		2.50	µg/L	5	03/03/06 11:26
1,3-Dichloropropane	ND		2.50	µg/L	5	03/03/06 11:26
1,4-Dichlorobenzene	ND		2.50	µg/L	5	03/03/06 11:26
2,2-Dichloropropane	ND		2.50	µg/L	5	03/03/06 11:26
2-Chlorotoluene	ND		2.50	µg/L	5	03/03/06 11:26
4-Chlorotoluene	ND		2.50	µg/L	5	03/03/06 11:26
Benzene	17.2		2.50	µg/L	5	03/03/06 11:26
Bromobenzene	ND		2.50	µg/L	5	03/03/06 11:26
Bromochloromethane	ND		2.50	µg/L	5	03/03/06 11:26
Bromodichloromethane	ND		2.50	µg/L	5	03/03/06 11:26
Bromoform	ND		2.50	µg/L	5	03/03/06 11:26
Bromomethane	ND		5.00	µg/L	5	03/03/06 11:26
Carbon tetrachloride	ND		2.50	µg/L	5	03/03/06 11:26
Chlorobenzene	ND		2.50	µg/L	5	03/03/06 11:26
Chloroethane	ND		5.00	µg/L	5	03/03/06 11:26
Chloroform	ND		2.50	µg/L	5	03/03/06 11:26
Chloromethane	ND		5.00	µg/L	5	03/03/06 11:26
cis-1,2-Dichloroethene	ND		2.50	µg/L	5	03/03/06 11:26

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
S	Spike Recovery outside accepted recovery limits		

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200 StateCertNo: 10155

Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-001A
Project:	Associated Textiles	**Client Sample ID:**	*MW1R 022806*
W Order:	0603003	**Collection Date:**	02/28/06 14:15
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4697
Revision:	03/06/06 11:34:19 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2750.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		2.50	µg/L	5	03/03/06 11:26
Dibromochloromethane	ND		2.50	µg/L	5	03/03/06 11:26
Dibromomethane	ND		2.50	µg/L	5	03/03/06 11:26
Dichlorodifluoromethane	ND		5.00	µg/L	5	03/03/06 11:26
Ethylbenzene	58.1		2.50	µg/L	5	03/03/06 11:26
Hexachlorobutadiene	ND		5.00	µg/L	5	03/03/06 11:26
Isopropylbenzene	ND		2.50	µg/L	5	03/03/06 11:26
Methyl tert-butyl ether	16.2		2.50	µg/L	5	03/03/06 11:26
Methylene chloride	ND		10.0	µg/L	5	03/03/06 11:26
n-Butylbenzene	ND		2.50	µg/L	5	03/03/06 11:26
n-Propylbenzene	3.50		2.50	µg/L	5	03/03/06 11:26
Naphthalene	6.05		5.00	µg/L	5	03/03/06 11:26
p-Isopropyltoluene	ND		2.50	µg/L	5	03/03/06 11:26
sec-Butylbenzene	ND		2.50	µg/L	5	03/03/06 11:26
Styrene	ND		2.50	µg/L	5	03/03/06 11:26
tert-Butylbenzene	ND		2.50	µg/L	5	03/03/06 11:26
Tetrachloroethene	ND		2.50	µg/L	5	03/03/06 11:26
Toluene	28.5		2.50	µg/L	5	03/03/06 11:26
trans-1,2-Dichloroethene	ND		2.50	µg/L	5	03/03/06 11:26
trans-1,3-Dichloropropene	ND		2.50	µg/L	5	03/03/06 11:26
Trichloroethene	ND		2.50	µg/L	5	03/03/06 11:26
Trichlorofluoromethane	ND		5.00	µg/L	5	03/03/06 11:26
Vinyl chloride	ND		5.00	µg/L	5	03/03/06 11:26
Xylenes (total)	208		5.00	µg/L	5	03/03/06 11:26
Surr: 1,2-Dichloroethane-d4	103		75-134	%REC	5	03/03/06 11:26
Surr: 4-Bromofluorobenzene	108		75-125	%REC	5	03/03/06 11:26
Surr: Dibromofluoromethane	101		75-127	%REC	5	03/03/06 11:26
Surr: Toluene-d8	109		75-125	%REC	5	03/03/06 11:26

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-002A**
Project:	Associated Textiles	**Client Sample ID:**	*MW2 022806*
W Order:	0603003	**Collection Date:**	02/28/06 13:30
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2732.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		25.0	µg/L	50	03/02/06 15:09
1,1,1-Trichloroethane	ND		25.0	µg/L	50	03/02/06 15:09
1,1,2,2-Tetrachloroethane	ND		25.0	µg/L	50	03/02/06 15:09
1,1,2-Trichloroethane	ND		25.0	µg/L	50	03/02/06 15:09
1,1-Dichloroethane	ND		25.0	µg/L	50	03/02/06 15:09
1,1-Dichloroethene	ND		25.0	µg/L	50	03/02/06 15:09
1,1-Dichloropropene	ND		25.0	µg/L	50	03/02/06 15:09
1,2,3-Trichlorobenzene	ND		50.0	µg/L	50	03/02/06 15:09
1,2,3-Trichloropropane	ND		25.0	µg/L	50	03/02/06 15:09
1,2,4-Trichlorobenzene	ND		50.0	µg/L	50	03/02/06 15:09
1,2,4-Trimethylbenzene	1230		25.0	µg/L	50	03/02/06 15:09
1,2-Dibromo-3-chloropropane	ND		50.0	µg/L	50	03/02/06 15:09
1,2-Dibromoethane	ND		25.0	µg/L	50	03/02/06 15:09
1,2-Dichlorobenzene	ND		25.0	µg/L	50	03/02/06 15:09
1,2-Dichloroethane	ND		25.0	µg/L	50	03/02/06 15:09
1,2-Dichloropropane	ND		25.0	µg/L	50	03/02/06 15:09
1,3,5-Trimethylbenzene	298		25.0	µg/L	50	03/02/06 15:09
1,3-Dichlorobenzene	ND		25.0	µg/L	50	03/02/06 15:09
1,3-Dichloropropane	ND		25.0	µg/L	50	03/02/06 15:09
1,4-Dichlorobenzene	ND		25.0	µg/L	50	03/02/06 15:09
2,2-Dichloropropane	ND		25.0	µg/L	50	03/02/06 15:09
2-Chlorotoluene	ND		25.0	µg/L	50	03/02/06 15:09
4-Chlorotoluene	ND		25.0	µg/L	50	03/02/06 15:09
Benzene	1620		25.0	µg/L	50	03/02/06 15:09
Bromobenzene	ND		25.0	µg/L	50	03/02/06 15:09
Bromochloromethane	ND		25.0	µg/L	50	03/02/06 15:09
Bromodichloromethane	ND		25.0	µg/L	50	03/02/06 15:09
Bromoform	ND		25.0	µg/L	50	03/02/06 15:09
Bromomethane	ND		50.0	µg/L	50	03/02/06 15:09
Carbon tetrachloride	ND		25.0	µg/L	50	03/02/06 15:09
Chlorobenzene	ND		25.0	µg/L	50	03/02/06 15:09
Chloroethane	ND		50.0	µg/L	50	03/02/06 15:09
Chloroform	ND		25.0	µg/L	50	03/02/06 15:09
Chloromethane	ND		50.0	µg/L	50	03/02/06 15:09
cis-1,2-Dichloroethene	ND		25.0	µg/L	50	03/02/06 15:09

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-002A
Project:	Associated Textiles	**Client Sample ID:**	*MW2 022806*
W Order:	0603003	**Collection Date:**	02/28/06 13:30
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2732.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		25.0	µg/L	50	03/02/06 15:09
Dibromochloromethane	ND		25.0	µg/L	50	03/02/06 15:09
Dibromomethane	ND		25.0	µg/L	50	03/02/06 15:09
Dichlorodifluoromethane	ND		50.0	µg/L	50	03/02/06 15:09
Ethylbenzene	795		25.0	µg/L	50	03/02/06 15:09
Hexachlorobutadiene	ND		50.0	µg/L	50	03/02/06 15:09
Isopropylbenzene	42.5		25.0	µg/L	50	03/02/06 15:09
Methyl tert-butyl ether	ND		25.0	µg/L	50	03/02/06 15:09
Methylene chloride	ND		100	µg/L	50	03/02/06 15:09
n-Butylbenzene	ND		25.0	µg/L	50	03/02/06 15:09
n-Propylbenzene	76.0		25.0	µg/L	50	03/02/06 15:09
Naphthalene	140		50.0	µg/L	50	03/02/06 15:09
p-Isopropyltoluene	ND		25.0	µg/L	50	03/02/06 15:09
sec-Butylbenzene	ND		25.0	µg/L	50	03/02/06 15:09
Styrene	ND		25.0	µg/L	50	03/02/06 15:09
tert-Butylbenzene	ND		25.0	µg/L	50	03/02/06 15:09
Tetrachloroethene	ND		25.0	µg/L	50	03/02/06 15:09
Toluene	215		25.0	µg/L	50	03/02/06 15:09
trans-1,2-Dichloroethene	ND		25.0	µg/L	50	03/02/06 15:09
trans-1,3-Dichloropropene	ND		25.0	µg/L	50	03/02/06 15:09
Trichloroethene	ND		25.0	µg/L	50	03/02/06 15:09
Trichlorofluoromethane	ND		50.0	µg/L	50	03/02/06 15:09
Vinyl chloride	ND		50.0	µg/L	50	03/02/06 15:09
Xylenes (total)	2620		50.0	µg/L	50	03/02/06 15:09
Surr: 1,2-Dichloroethane-d4	102		75-134	%REC	50	03/02/06 15:09
Surr: 4-Bromofluorobenzene	108		75-125	%REC	50	03/02/06 15:09
Surr: Dibromofluoromethane	99.2		75-127	%REC	50	03/02/06 15:09
Surr: Toluene-d8	107		75-125	%REC	50	03/02/06 15:09

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
S	Spike Recovery outside accepted recovery limits		

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East Syracuse, NY 13057 (315) 437-0200
StateCertNo: 10155

Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-003A
Project:	Associated Textiles	**Client Sample ID:**	*MW3 022806*
W Order:	0603003	**Collection Date:**	02/28/06 14:40
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2733.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 15:41
1,1,1-Trichloroethane	ND		0.50	µg/L	1	03/02/06 15:41
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 15:41
1,1,2-Trichloroethane	ND		0.50	µg/L	1	03/02/06 15:41
1,1-Dichloroethane	ND		0.50	µg/L	1	03/02/06 15:41
1,1-Dichloroethene	ND		0.50	µg/L	1	03/02/06 15:41
1,1-Dichloropropene	ND		0.50	µg/L	1	03/02/06 15:41
1,2,3-Trichlorobenzene	ND		1.00	µg/L	1	03/02/06 15:41
1,2,3-Trichloropropane	ND		0.50	µg/L	1	03/02/06 15:41
1,2,4-Trichlorobenzene	ND		1.00	µg/L	1	03/02/06 15:41
1,2,4-Trimethylbenzene	ND		0.50	µg/L	1	03/02/06 15:41
1,2-Dibromo-3-chloropropane	ND		1.00	µg/L	1	03/02/06 15:41
1,2-Dibromoethane	ND		0.50	µg/L	1	03/02/06 15:41
1,2-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 15:41
1,2-Dichloroethane	ND		0.50	µg/L	1	03/02/06 15:41
1,2-Dichloropropane	ND		0.50	µg/L	1	03/02/06 15:41
1,3,5-Trimethylbenzene	ND		0.50	µg/L	1	03/02/06 15:41
1,3-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 15:41
1,3-Dichloropropane	ND		0.50	µg/L	1	03/02/06 15:41
1,4-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 15:41
2,2-Dichloropropane	ND		0.50	µg/L	1	03/02/06 15:41
2-Chlorotoluene	ND		0.50	µg/L	1	03/02/06 15:41
4-Chlorotoluene	ND		0.50	µg/L	1	03/02/06 15:41
Benzene	ND		0.50	µg/L	1	03/02/06 15:41
Bromobenzene	ND		0.50	µg/L	1	03/02/06 15:41
Bromochloromethane	ND		0.50	µg/L	1	03/02/06 15:41
Bromodichloromethane	ND		0.50	µg/L	1	03/02/06 15:41
Bromoform	ND		0.50	µg/L	1	03/02/06 15:41
Bromomethane	ND		1.00	µg/L	1	03/02/06 15:41
Carbon tetrachloride	ND		0.50	µg/L	1	03/02/06 15:41
Chlorobenzene	ND		0.50	µg/L	1	03/02/06 15:41
Chloroethane	ND		1.00	µg/L	1	03/02/06 15:41
Chloroform	0.60		0.50	µg/L	1	03/02/06 15:41
Chloromethane	ND		1.00	µg/L	1	03/02/06 15:41
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	03/02/06 15:41

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-003A**
Project:	Associated Textiles	**Client Sample ID:**	*MW3 022806*
W Order:	0603003	**Collection Date:**	02/28/06 14:40
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11 **Sample Size:** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R4688
Revision:	03/06/06 7:28:28 A **TestCode** 8260W	**FileID:**	1-SAMP-T2733.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		0.50	µg/L	1	03/02/06 15:41
Dibromochloromethane	ND		0.50	µg/L	1	03/02/06 15:41
Dibromomethane	ND		0.50	µg/L	1	03/02/06 15:41
Dichlorodifluoromethane	ND		1.00	µg/L	1	03/02/06 15:41
Ethylbenzene	ND		0.50	µg/L	1	03/02/06 15:41
Hexachlorobutadiene	ND		1.00	µg/L	1	03/02/06 15:41
Isopropylbenzene	ND		0.50	µg/L	1	03/02/06 15:41
Methyl tert-butyl ether	ND		0.50	µg/L	1	03/02/06 15:41
Methylene chloride	ND		2.00	µg/L	1	03/02/06 15:41
n-Butylbenzene	ND		0.50	µg/L	1	03/02/06 15:41
n-Propylbenzene	ND		0.50	µg/L	1	03/02/06 15:41
Naphthalene	ND		1.00	µg/L	1	03/02/06 15:41
p-Isopropyltoluene	ND		0.50	µg/L	1	03/02/06 15:41
sec-Butylbenzene	ND		0.50	µg/L	1	03/02/06 15:41
Styrene	ND		0.50	µg/L	1	03/02/06 15:41
tert-Butylbenzene	ND		0.50	µg/L	1	03/02/06 15:41
Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 15:41
Toluene	ND		0.50	µg/L	1	03/02/06 15:41
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	03/02/06 15:41
trans-1,3-Dichloropropene	ND		0.50	µg/L	1	03/02/06 15:41
Trichloroethene	ND		0.50	µg/L	1	03/02/06 15:41
Trichlorofluoromethane	ND		1.00	µg/L	1	03/02/06 15:41
Vinyl chloride	ND		1.00	µg/L	1	03/02/06 15:41
Xylenes (total)	ND		1.00	µg/L	1	03/02/06 15:41
Surr: 1,2-Dichloroethane-d4	107		75-134	%REC	1	03/02/06 15:41
Surr: 4-Bromofluorobenzene	103		75-125	%REC	1	03/02/06 15:41
Surr: Dibromofluoromethane	104		75-127	%REC	1	03/02/06 15:41
Surr: Toluene-d8	108		75-125	%REC	1	03/02/06 15:41

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- I Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim /Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-004A**
Project:	Associated Textiles	**Client Sample ID:**	*MW4 022806*
W Order:	0603003	**Collection Date:**	02/28/06 15:10
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4697
Revision:	03/06/06 11:34:19 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2751.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		2.50	µg/L	5	03/03/06 11:58
1,1,1-Trichloroethane	ND		2.50	µg/L	5	03/03/06 11:58
1,1,2,2-Tetrachloroethane	ND		2.50	µg/L	5	03/03/06 11:58
1,1,2-Trichloroethane	ND		2.50	µg/L	5	03/03/06 11:58
1,1-Dichloroethane	ND		2.50	µg/L	5	03/03/06 11:58
1,1-Dichloroethene	ND		2.50	µg/L	5	03/03/06 11:58
1,1-Dichloropropene	ND		2.50	µg/L	5	03/03/06 11:58
1,2,3-Trichlorobenzene	ND		5.00	µg/L	5	03/03/06 11:58
1,2,3-Trichloropropane	ND		2.50	µg/L	5	03/03/06 11:58
1,2,4-Trichlorobenzene	ND		5.00	µg/L	5	03/03/06 11:58
1,2,4-Trimethylbenzene	4.35		2.50	µg/L	5	03/03/06 11:58
1,2-Dibromo-3-chloropropane	ND		6.00	µg/L	5	03/03/06 11:58
1,2-Dibromoethane	ND		2.50	µg/L	5	03/03/06 11:58
1,2-Dichlorobenzene	ND		2.50	µg/L	5	03/03/06 11:58
1,2-Dichloroethane	ND		2.50	µg/L	5	03/03/06 11:58
1,2-Dichloropropane	ND		2.50	µg/L	5	03/03/06 11:58
1,3,5-Trimethylbenzene	ND		2.50	µg/L	5	03/03/06 11:58
1,3-Dichlorobenzene	ND		2.50	µg/L	5	03/03/06 11:58
1,3-Dichloropropane	ND		2.50	µg/L	5	03/03/06 11:58
1,4-Dichlorobenzene	ND		2.50	µg/L	5	03/03/06 11:58
2,2-Dichloropropane	ND		2.50	µg/L	5	03/03/06 11:58
2-Chlorotoluene	ND		2.50	µg/L	5	03/03/06 11:58
4-Chlorotoluene	ND		2.50	µg/L	5	03/03/06 11:58
Benzene	100		2.50	µg/L	5	03/03/06 11:58
Bromobenzene	ND		2.50	µg/L	5	03/03/06 11:58
Bromochloromethane	ND		2.50	µg/L	5	03/03/06 11:58
Bromodichloromethane	ND		2.50	µg/L	5	03/03/06 11:58
Bromoform	ND		2.50	µg/L	5	03/03/06 11:58
Bromomethane	ND		5.00	µg/L	5	03/03/06 11:58
Carbon tetrachloride	ND		2.50	µg/L	5	03/03/06 11:58
Chlorobenzene	ND		2.50	µg/L	5	03/03/06 11:58
Chloroethane	ND		5.00	µg/L	5	03/03/06 11:58
Chloroform	ND		2.50	µg/L	5	03/03/06 11:58
Chloromethane	ND		5.00	µg/L	5	03/03/06 11:58
cis-1,2-Dichloroethene	ND		2.50	µg/L	5	03/03/06 11:58

Qualifiers:
- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-004A**
Project:	Associated Textiles	**Client Sample ID:**	*MW4 022806*
W Order:	0603003	**Collection Date:**	02/28/06 15:10
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4697
Revision:	03/06/06 11:34:19 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2751.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		2.50	µg/L	5	03/03/06 11:58
Dibromochloromethane	ND		2.50	µg/L	5	03/03/06 11:58
Dibromomethane	ND		2.50	µg/L	5	03/03/06 11:58
Dichlorodifluoromethane	ND		5.00	µg/L	5	03/03/06 11:58
Ethylbenzene	10.6		2.50	µg/L	5	03/03/06 11:58
Hexachlorobutadiene	ND		5.00	µg/L	5	03/03/06 11:58
Isopropylbenzene	8.35		2.50	µg/L	5	03/03/06 11:58
Methyl tert-butyl ether	ND		2.50	µg/L	5	03/03/06 11:58
Methylene chloride	ND		10.0	µg/L	5	03/03/06 11:58
n-Butylbenzene	ND		2.50	µg/L	5	03/03/06 11:58
n-Propylbenzene	4.55		2.50	µg/L	5	03/03/06 11:58
Naphthalene	ND		5.00	µg/L	5	03/03/06 11:58
p-Isopropyltoluene	ND		2.50	µg/L	5	03/03/06 11:58
sec-Butylbenzene	ND		2.50	µg/L	5	03/03/06 11:58
Styrene	ND		2.50	µg/L	5	03/03/06 11:58
tert-Butylbenzene	ND		2.50	µg/L	5	03/03/06 11:58
Tetrachloroethene	ND		2.50	µg/L	5	03/03/06 11:58
Toluene	9.35		2.50	µg/L	5	03/03/06 11:58
trans-1,2-Dichloroethene	ND		2.50	µg/L	5	03/03/06 11:58
trans-1,3-Dichloropropene	ND		2.50	µg/L	5	03/03/06 11:58
Trichloroethene	ND		2.50	µg/L	5	03/03/06 11:58
Trichlorofluoromethane	ND		5.00	µg/L	5	03/03/06 11:58
Vinyl chloride	6.70		5.00	µg/L	5	03/03/06 11:58
Xylenes (total)	19.5		5.00	µg/L	5	03/03/06 11:58
Surr: 1,2-Dichloroethane-d4	98.2		75-134	%REC	5	03/03/06 11:58
Surr: 4-Bromofluorobenzene	107		75-125	%REC	5	03/03/06 11:58
Surr: Dibromofluoromethane	93.6		75-127	%REC	5	03/03/06 11:58
Surr: Toluene-d8	106		75-125	%REC	5	03/03/06 11:58

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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East Syracuse, NY 13057 (315) 437-0200 StateCertNo: 10155

Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-005A
Project:	Associated Textiles	**Client Sample ID:**	*MW5 022806*
W Order:	0603003	**Collection Date:**	02/28/06 17:05
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11 Sample Size: 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS %Moisture:	**BatchNo:**	R4688
Revision:	03/06/06 7:28:28 A TestCode 8260W	**FileID:**	1-SAMP-T2735.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 16:44
1,1,1-Trichloroethane	ND		0.50	µg/L	1	03/02/06 16:44
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 16:44
1,1,2-Trichloroethane	ND		0.50	µg/L	1	03/02/06 16:44
1,1-Dichloroethane	ND		0.50	µg/L	1	03/02/06 16:44
1,1-Dichloroethene	ND		0.50	µg/L	1	03/02/06 16:44
1,1-Dichloropropene	ND		0.50	µg/L	1	03/02/06 16:44
1,2,3-Trichlorobenzene	ND		1.00	µg/L	1	03/02/06 16:44
1,2,3-Trichloropropane	ND		0.50	µg/L	1	03/02/06 16:44
1,2,4-Trichlorobenzene	ND		1.00	µg/L	1	03/02/06 16:44
1,2,4-Trimethylbenzene	ND		0.50	µg/L	1	03/02/06 16:44
1,2-Dibromo-3-chloropropane	ND		1.00	µg/L	1	03/02/06 16:44
1,2-Dibromoethane	ND		0.50	µg/L	1	03/02/06 16:44
1,2-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 16:44
1,2-Dichloroethane	ND		0.50	µg/L	1	03/02/06 16:44
1,2-Dichloropropane	ND		0.50	µg/L	1	03/02/06 16:44
1,3,5-Trimethylbenzene	ND		0.50	µg/L	1	03/02/06 16:44
1,3-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 16:44
1,3-Dichloropropane	ND		0.50	µg/L	1	03/02/06 16:44
1,4-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 16:44
2,2-Dichloropropane	ND		0.50	µg/L	1	03/02/06 16:44
2-Chlorotoluene	ND		0.50	µg/L	1	03/02/06 16:44
4-Chlorotoluene	ND		0.50	µg/L	1	03/02/06 16:44
Benzene	ND		0.50	µg/L	1	03/02/06 16:44
Bromobenzene	ND		0.50	µg/L	1	03/02/06 16:44
Bromochloromethane	ND		0.50	µg/L	1	03/02/06 16:44
Bromodichloromethane	ND		0.50	µg/L	1	03/02/06 16:44
Bromoform	ND		0.50	µg/L	1	03/02/06 16:44
Bromomethane	ND		1.00	µg/L	1	03/02/06 16:44
Carbon tetrachloride	ND		0.50	µg/L	1	03/02/06 16:44
Chlorobenzene	ND		0.50	µg/L	1	03/02/06 16:44
Chloroethane	ND		1.00	µg/L	1	03/02/06 16:44
Chloroform	2.31		0.50	µg/L	1	03/02/06 16:44
Chloromethane	ND		1.00	µg/L	1	03/02/06 16:44
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	03/02/06 16:44

Qualifiers:
- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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East Syracuse, NY 13057 (315) 437-0200
StateCertNo: 10155

Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-005A
Project:	Associated Textiles	**Client Sample ID:**	*MW5 022806*
W Order:	0603003	**Collection Date:**	02/28/06 17:05
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2735.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		0.50	µg/L	1	03/02/06 16:44
Dibromochloromethane	ND		0.50	µg/L	1	03/02/06 16:44
Dibromomethane	ND		0.50	µg/L	1	03/02/06 16:44
Dichlorodifluoromethane	ND		1.00	µg/L	1	03/02/06 16:44
Ethylbenzene	ND		0.50	µg/L	1	03/02/06 16:44
Hexachlorobutadiene	ND		1.00	µg/L	1	03/02/06 16:44
Isopropylbenzene	ND		0.50	µg/L	1	03/02/06 16:44
Methyl tert-butyl ether	ND		0.50	µg/L	1	03/02/06 16:44
Methylene chloride	ND		2.00	µg/L	1	03/02/06 16:44
n-Butylbenzene	ND		0.50	µg/L	1	03/02/06 16:44
n-Propylbenzene	ND		0.50	µg/L	1	03/02/06 16:44
Naphthalene	ND		1.00	µg/L	1	03/02/06 16:44
p-Isopropyltoluene	ND		0.50	µg/L	1	03/02/06 16:44
sec-Butylbenzene	ND		0.50	µg/L	1	03/02/06 16:44
Styrene	ND		0.50	µg/L	1	03/02/06 16:44
tert-Butylbenzene	ND		0.50	µg/L	1	03/02/06 16:44
Tetrachloroethene	ND		0.50	µg/L	1	03/02/06 16:44
Toluene	ND		0.50	µg/L	1	03/02/06 16:44
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	03/02/06 16:44
trans-1,3-Dichloropropene	ND		0.50	µg/L	1	03/02/06 16:44
Trichloroethene	ND		0.50	µg/L	1	03/02/06 16:44
Trichlorofluoromethane	ND		1.00	µg/L	1	03/02/06 16:44
Vinyl chloride	ND		1.00	µg/L	1	03/02/06 16:44
Xylenes (total)	ND		1.00	µg/L	1	03/02/06 16:44
Surr: 1,2-Dichloroethane-d4	107		75-134	%REC	1	03/02/06 16:44
Surr: 4-Bromofluorobenzene	101		75-125	%REC	1	03/02/06 16:44
Surr: Dibromofluoromethane	107		75-127	%REC	1	03/02/06 16:44
Surr: Toluene-d8	109		75-125	%REC	1	03/02/06 16:44

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
S	Spike Recovery outside accepted recovery limits		

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-006A
Project:	Associated Textiles	**Client Sample ID:**	*MW6 022806*
W Order:	0603003	**Collection Date:**	02/28/06 12:40
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4697
Revision:	03/06/06 11:34:19 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2752.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		2.50	µg/L	5	03/03/06 12:29
1,1,1-Trichloroethane	ND		2.50	µg/L	5	03/03/06 12:29
1,1,2,2-Tetrachloroethane	ND		2.50	µg/L	5	03/03/06 12:29
1,1,2-Trichloroethane	ND		2.50	µg/L	5	03/03/06 12:29
1,1-Dichloroethane	ND		2.50	µg/L	5	03/03/06 12:29
1,1-Dichloroethene	ND		2.50	µg/L	5	03/03/06 12:29
1,1-Dichloropropene	ND		2.50	µg/L	5	03/03/06 12:29
1,2,3-Trichlorobenzene	ND		5.00	µg/L	5	03/03/06 12:29
1,2,3-Trichloropropane	ND		2.50	µg/L	5	03/03/06 12:29
1,2,4-Trichlorobenzene	ND		5.00	µg/L	5	03/03/06 12:29
1,2,4-Trimethylbenzene	ND		2.50	µg/L	5	03/03/06 12:29
1,2-Dibromo-3-chloropropane	ND		5.00	µg/L	5	03/03/06 12:29
1,2-Dibromoethane	ND		2.50	µg/L	5	03/03/06 12:29
1,2-Dichlorobenzene	ND		2.50	µg/L	5	03/03/06 12:29
1,2-Dichloroethane	ND		2.50	µg/L	5	03/03/06 12:29
1,2-Dichloropropane	ND		2.50	µg/L	5	03/03/06 12:29
1,3,5-Trimethylbenzene	ND		2.50	µg/L	5	03/03/06 12:29
1,3-Dichlorobenzene	ND		2.50	µg/L	5	03/03/06 12:29
1,3-Dichloropropane	ND		2.50	µg/L	5	03/03/06 12:29
1,4-Dichlorobenzene	ND		2.50	µg/L	5	03/03/06 12:29
2,2-Dichloropropane	ND		2.50	µg/L	5	03/03/06 12:29
2-Chlorotoluene	ND		2.50	µg/L	5	03/03/06 12:29
4-Chlorotoluene	ND		2.50	µg/L	5	03/03/06 12:29
Benzene	20.9		2.50	µg/L	5	03/03/06 12:29
Bromobenzene	ND		2.50	µg/L	5	03/03/06 12:29
Bromochloromethane	ND		2.50	µg/L	5	03/03/06 12:29
Bromodichloromethane	ND		2.50	µg/L	5	03/03/06 12:29
Bromoform	ND		2.50	µg/L	5	03/03/06 12:29
Bromomethane	ND		5.00	µg/L	5	03/03/06 12:29
Carbon tetrachloride	ND		2.50	µg/L	5	03/03/06 12:29
Chlorobenzene	ND		2.50	µg/L	5	03/03/06 12:29
Chloroethane	ND		5.00	µg/L	5	03/03/06 12:29
Chloroform	ND		2.50	µg/L	5	03/03/06 12:29
Chloromethane	ND		5.00	µg/L	5	03/03/06 12:29
cis-1,2-Dichloroethene	ND		2.50	µg/L	5	03/03/06 12:29

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-006A**
Project:	Associated Textiles	**Client Sample ID:**	*MW6 022806*
W Order:	0603003	**Collection Date:**	02/28/06 12:40
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4697
Revision:	03/06/06 11:34:19 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2752.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		2.50	µg/L	5	03/03/06 12:29
Dibromochloromethane	ND		2.50	µg/L	5	03/03/06 12:29
Dibromomethane	ND		2.50	µg/L	5	03/03/06 12:29
Dichlorodifluoromethane	ND		5.00	µg/L	5	03/03/06 12:29
Ethylbenzene	3.80		2.50	µg/L	5	03/03/06 12:29
Hexachlorobutadiene	ND		5.00	µg/L	5	03/03/06 12:29
Isopropylbenzene	26.5		2.50	µg/L	5	03/03/06 12:29
Methyl tert-butyl ether	13.8		2.50	µg/L	5	03/03/06 12:29
Methylene chloride	ND		10.0	µg/L	5	03/03/06 12:29
n-Butylbenzene	ND		2.50	µg/L	5	03/03/06 12:29
n-Propylbenzene	29.6		2.50	µg/L	5	03/03/06 12:29
Naphthalene	ND		5.00	µg/L	5	03/03/06 12:29
p-Isopropyltoluene	ND		2.50	µg/L	5	03/03/06 12:29
sec-Butylbenzene	ND		2.50	µg/L	5	03/03/06 12:29
Styrene	ND		2.50	µg/L	5	03/03/06 12:29
tert-Butylbenzene	ND		2.50	µg/L	5	03/03/06 12:29
Tetrachloroethene	ND		2.50	µg/L	5	03/03/06 12:29
Toluene	ND		2.50	µg/L	5	03/03/06 12:29
trans-1,2-Dichloroethene	ND		2.50	µg/L	5	03/03/06 12:29
trans-1,3-Dichloropropene	ND		2.50	µg/L	5	03/03/06 12:29
Trichloroethene	ND		2.50	µg/L	5	03/03/06 12:29
Trichlorofluoromethane	ND		5.00	µg/L	5	03/03/06 12:29
Vinyl chloride	ND		5.00	µg/L	5	03/03/06 12:29
Xylenes (total)	5.00		5.00	µg/L	5	03/03/06 12:29
Surr: 1,2-Dichloroethane-d4	100		75-134	%REC	5	03/03/06 12:29
Surr: 4-Bromofluorobenzene	108		75-125	%REC	5	03/03/06 12:29
Surr: Dibromofluoromethane	97.4		75-127	%REC	5	03/03/06 12:29
Surr: Toluene-d8	109		75-125	%REC	5	03/03/06 12:29

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
S	Spike Recovery outside accepted recovery limits		

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Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-007A**
Project:	Associated Textiles	**Client Sample ID:**	*MW7 022806*
W Order:	0603003	**Collection Date:**	02/28/06 15:50
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2737.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 17:48
1,1,1-Trichloroethane	ND		0.50	µg/L	1	03/02/06 17:48
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 17:48
1,1,2-Trichloroethane	ND		0.50	µg/L	1	03/02/06 17:48
1,1-Dichloroethane	ND		0.50	µg/L	1	03/02/06 17:48
1,1-Dichloroethene	ND		0.50	µg/L	1	03/02/06 17:48
1,1-Dichloropropene	ND		0.50	µg/L	1	03/02/06 17:48
1,2,3-Trichlorobenzene	ND		1.00	µg/L	1	03/02/06 17:48
1,2,3-Trichloropropane	ND		0.50	µg/L	1	03/02/06 17:48
1,2,4-Trichlorobenzene	ND		1.00	µg/L	1	03/02/06 17:48
1,2,4-Trimethylbenzene	ND		0.50	µg/L	1	03/02/06 17:48
1,2-Dibromo-3-chloropropane	ND		1.00	µg/L	1	03/02/06 17:48
1,2-Dibromoethane	ND		0.50	µg/L	1	03/02/06 17:48
1,2-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 17:48
1,2-Dichloroethane	ND		0.50	µg/L	1	03/02/06 17:48
1,2-Dichloropropane	ND		0.50	µg/L	1	03/02/06 17:48
1,3,5-Trimethylbenzene	ND		0.50	µg/L	1	03/02/06 17:48
1,3-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 17:48
1,3-Dichloropropane	ND		0.50	µg/L	1	03/02/06 17:48
1,4-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 17:48
2,2-Dichloropropane	ND		0.50	µg/L	1	03/02/06 17:48
2-Chlorotoluene	ND		0.50	µg/L	1	03/02/06 17:48
4-Chlorotoluene	ND		0.50	µg/L	1	03/02/06 17:48
Benzene	ND		0.50	µg/L	1	03/02/06 17:48
Bromobenzene	ND		0.50	µg/L	1	03/02/06 17:48
Bromochloromethane	ND		0.50	µg/L	1	03/02/06 17:48
Bromodichloromethane	ND		0.50	µg/L	1	03/02/06 17:48
Bromoform	ND		0.50	µg/L	1	03/02/06 17:48
Bromomethane	ND		1.00	µg/L	1	03/02/06 17:48
Carbon tetrachloride	ND		0.50	µg/L	1	03/02/06 17:48
Chlorobenzene	ND		0.50	µg/L	1	03/02/06 17:48
Chloroethane	ND		1.00	µg/L	1	03/02/06 17:48
Chloroform	ND		0.50	µg/L	1	03/02/06 17:48
Chloromethane	ND		1.00	µg/L	1	03/02/06 17:48
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	03/02/06 17:48

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200 StateCertNo: 10155

Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-007A
Project:	Associated Textiles	**Client Sample ID:**	*MW7 022806*
W Order:	0603003	**Collection Date:**	02/28/06 15:50
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2737.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		0.50	µg/L	1	03/02/06 17:48
Dibromochloromethane	ND		0.50	µg/L	1	03/02/06 17:48
Dibromomethane	ND		0.50	µg/L	1	03/02/06 17:48
Dichlorodifluoromethane	ND		1.00	µg/L	1	03/02/06 17:48
Ethylbenzene	ND		0.50	µg/L	1	03/02/06 17:48
Hexachlorobutadiene	ND		1.00	µg/L	1	03/02/06 17:48
Isopropylbenzene	ND		0.50	µg/L	1	03/02/06 17:48
Methyl tert-butyl ether	8.96		0.50	µg/L	1	03/02/06 17:48
Methylene chloride	ND		2.00	µg/L	1	03/02/06 17:48
n-Butylbenzene	ND		0.50	µg/L	1	03/02/06 17:48
n-Propylbenzene	ND		0.50	µg/L	1	03/02/06 17:48
Naphthalene	ND		1.00	µg/L	1	03/02/06 17:48
p-Isopropyltoluene	ND		0.50	µg/L	1	03/02/06 17:48
sec-Butylbenzene	ND		0.50	µg/L	1	03/02/06 17:48
Styrene	ND		0.50	µg/L	1	03/02/06 17:48
tert-Butylbenzene	ND		0.50	µg/L	1	03/02/06 17:48
Tetrachloroethene	ND		0.50	µg/L	1	03/02/06 17:48
Toluene	ND		0.50	µg/L	1	03/02/06 17:48
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	03/02/06 17:48
trans-1,3-Dichloropropene	ND		0.50	µg/L	1	03/02/06 17:48
Trichloroethene	ND		0.50	µg/L	1	03/02/06 17:48
Trichlorofluoromethane	ND		1.00	µg/L	1	03/02/06 17:48
Vinyl chloride	ND		1.00	µg/L	1	03/02/06 17:48
Xylenes (total)	ND		1.00	µg/L	1	03/02/06 17:48
Surr: 1,2-Dichloroethane-d4	105		75-134	%REC	1	03/02/06 17:48
Surr: 4-Bromofluorobenzene	105		75-125	%REC	1	03/02/06 17:48
Surr: Dibromofluoromethane	106		75-127	%REC	1	03/02/06 17:48
Surr: Toluene-d8	108		75-125	%REC	1	03/02/06 17:48

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-008A
Project:	Associated Textiles	**Client Sample ID:**	*MW8 022806*
W Order:	0603003	**Collection Date:**	02/28/06 16:11
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2738.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 18:20
1,1,1-Trichloroethane	71.7	E	0.50	µg/L	1	03/02/06 18:20
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 18:20
1,1,2-Trichloroethane	ND		0.50	µg/L	1	03/02/06 18:20
1,1-Dichloroethane	2.76		0.50	µg/L	1	03/02/06 18:20
1,1-Dichloroethene	0.77		0.50	µg/L	1	03/02/06 18:20
1,1-Dichloropropene	ND		0.50	µg/L	1	03/02/06 18:20
1,2,3-Trichlorobenzene	ND		1.00	µg/L	1	03/02/06 18:20
1,2,3-Trichloropropane	ND		0.50	µg/L	1	03/02/06 18:20
1,2,4-Trichlorobenzene	ND		1.00	µg/L	1	03/02/06 18:20
1,2,4-Trimethylbenzene	ND		0.50	µg/L	1	03/02/06 18:20
1,2-Dibromo-3-chloropropane	ND		1.00	µg/L	1	03/02/06 18:20
1,2-Dibromoethane	ND		0.50	µg/L	1	03/02/06 18:20
1,2-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 18:20
1,2-Dichloroethane	ND		0.50	µg/L	1	03/02/06 18:20
1,2-Dichloropropane	ND		0.50	µg/L	1	03/02/06 18:20
1,3,5-Trimethylbenzene	ND		0.50	µg/L	1	03/02/06 18:20
1,3-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 18:20
1,3-Dichloropropane	ND		0.50	µg/L	1	03/02/06 18:20
1,4-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 18:20
2,2-Dichloropropane	ND		0.50	µg/L	1	03/02/06 18:20
2-Chlorotoluene	ND		0.50	µg/L	1	03/02/06 18:20
4-Chlorotoluene	ND		0.50	µg/L	1	03/02/06 18:20
Benzene	ND		0.50	µg/L	1	03/02/06 18:20
Bromobenzene	ND		0.50	µg/L	1	03/02/06 18:20
Bromochloromethane	ND		0.50	µg/L	1	03/02/06 18:20
Bromodichloromethane	ND		0.50	µg/L	1	03/02/06 18:20
Bromoform	ND		0.50	µg/L	1	03/02/06 18:20
Bromomethane	ND		1.00	µg/L	1	03/02/06 18:20
Carbon tetrachloride	ND		0.50	µg/L	1	03/02/06 18:20
Chlorobenzene	ND		0.50	µg/L	1	03/02/06 18:20
Chloroethane	ND		1.00	µg/L	1	03/02/06 18:20
Chloroform	ND		0.50	µg/L	1	03/02/06 18:20
Chloromethane	ND		1.00	µg/L	1	03/02/06 18:20
cis-1,2-Dichloroethene	23.2		0.50	µg/L	1	03/02/06 18:20

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-008A
Project:	Associated Textiles	**Client Sample ID:**	*MW8 022806*
W Order:	0603003	**Collection Date:**	02/28/06 16:11
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2738.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		0.50	µg/L	1	03/02/06 18:20
Dibromochloromethane	ND		0.50	µg/L	1	03/02/06 18:20
Dibromomethane	ND		0.50	µg/L	1	03/02/06 18:20
Dichlorodifluoromethane	ND		1.00	µg/L	1	03/02/06 18:20
Ethylbenzene	ND		0.50	µg/L	1	03/02/06 18:20
Hexachlorobutadiene	ND		1.00	µg/L	1	03/02/06 18:20
Isopropylbenzene	ND		0.50	µg/L	1	03/02/06 18:20
Methyl tert-butyl ether	3.13		0.50	µg/L	1	03/02/06 18:20
Methylene chloride	ND		2.00	µg/L	1	03/02/06 18:20
n-Butylbenzene	ND		0.50	µg/L	1	03/02/06 18:20
n-Propylbenzene	ND		0.50	µg/L	1	03/02/06 18:20
Naphthalene	ND		1.00	µg/L	1	03/02/06 18:20
p-Isopropyltoluene	ND		0.50	µg/L	1	03/02/06 18:20
sec-Butylbenzene	ND		0.50	µg/L	1	03/02/06 18:20
Styrene	ND		0.50	µg/L	1	03/02/06 18:20
tert-Butylbenzene	ND		0.50	µg/L	1	03/02/06 18:20
Tetrachloroethene	1.77		0.50	µg/L	1	03/02/06 18:20
Toluene	ND		0.50	µg/L	1	03/02/06 18:20
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	03/02/06 18:20
trans-1,3-Dichloropropene	ND		0.50	µg/L	1	03/02/06 18:20
Trichloroethene	201	E	0.50	µg/L	1	03/02/06 18:20
Trichlorofluoromethane	ND		1.00	µg/L	1	03/02/06 18:20
Vinyl chloride	ND		1.00	µg/L	1	03/02/06 18:20
Xylenes (total)	ND		1.00	µg/L	1	03/02/06 18:20
Surr: 1,2-Dichloroethane-d4	107		75-134	%REC	1	03/02/06 18:20
Surr: 4-Bromofluorobenzene	102		75-125	%REC	1	03/02/06 18:20
Surr: Dibromofluoromethane	104		75-127	%REC	1	03/02/06 18:20
Surr: Toluene-d8	108		75-125	%REC	1	03/02/06 18:20

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
S	Spike Recovery outside accepted recovery limits		

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200
StateCertNo: 10155

Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-008A**
Project:	Associated Textiles	**Client Sample ID:**	*MW8 022806*
W Order:	0603003	**Collection Date:**	02/28/06 16:11
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4697
Revision:	03/06/06 11:34:19 A	**TestCode** 8260W	**FileID:** 1-DL-T2753.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		5.00	µg/L	10	03/03/06 13:01
1,1,1-Trichloroethane	71.0		5.00	µg/L	10	03/03/06 13:01
1,1,2,2-Tetrachloroethane	ND		5.00	µg/L	10	03/03/06 13:01
1,1,2-Trichloroethane	ND		5.00	µg/L	10	03/03/06 13:01
1,1-Dichloroethane	ND		5.00	µg/L	10	03/03/06 13:01
1,1-Dichloroethene	ND		5.00	µg/L	10	03/03/06 13:01
1,1-Dichloropropene	ND		5.00	µg/L	10	03/03/06 13:01
1,2,3-Trichlorobenzene	ND		10.0	µg/L	10	03/03/06 13:01
1,2,3-Trichloropropane	ND		5.00	µg/L	10	03/03/06 13:01
1,2,4-Trichlorobenzene	ND		10.0	µg/L	10	03/03/06 13:01
1,2,4-Trimethylbenzene	ND		5.00	µg/L	10	03/03/06 13:01
1,2-Dibromo-3-chloropropane	ND		10.0	µg/L	10	03/03/06 13:01
1,2-Dibromoethane	ND		5.00	µg/L	10	03/03/06 13:01
1,2-Dichlorobenzene	ND		5.00	µg/L	10	03/03/06 13:01
1,2-Dichloroethane	ND		5.00	µg/L	10	03/03/06 13:01
1,2-Dichloropropane	ND		5.00	µg/L	10	03/03/06 13:01
1,3,5-Trimethylbenzene	ND		5.00	µg/L	10	03/03/06 13:01
1,3-Dichlorobenzene	ND		5.00	µg/L	10	03/03/06 13:01
1,3-Dichloropropane	ND		5.00	µg/L	10	03/03/06 13:01
1,4-Dichlorobenzene	ND		5.00	µg/L	10	03/03/06 13:01
2,2-Dichloropropane	ND		5.00	µg/L	10	03/03/06 13:01
2-Chlorotoluene	ND		5.00	µg/L	10	03/03/06 13:01
4-Chlorotoluene	ND		5.00	µg/L	10	03/03/06 13:01
Benzene	ND		5.00	µg/L	10	03/03/06 13:01
Bromobenzene	ND		5.00	µg/L	10	03/03/06 13:01
Bromochloromethane	ND		5.00	µg/L	10	03/03/06 13:01
Bromodichloromethane	ND		5.00	µg/L	10	03/03/06 13:01
Bromoform	ND		5.00	µg/L	10	03/03/06 13:01
Bromomethane	ND		10.0	µg/L	10	03/03/06 13:01
Carbon tetrachloride	ND		5.00	µg/L	10	03/03/06 13:01
Chlorobenzene	ND		5.00	µg/L	10	03/03/06 13:01
Chloroethane	ND		10.0	µg/L	10	03/03/06 13:01
Chloroform	ND		5.00	µg/L	10	03/03/06 13:01
Chloromethane	ND		10.0	µg/L	10	03/03/06 13:01
cis-1,2-Dichloroethene	21.1		5.00	µg/L	10	03/03/06 13:01

Qualifiers:
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- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-008A**
Project:	Associated Textiles	**Client Sample ID:**	*MW8 022806*
W Order:	0603003	**Collection Date:**	02/28/06 16:11
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4697
Revision:	03/06/06 11:34:19 A	**TestCode** 8260W	**FileID:** 1-DL-T2753.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		5.00	µg/L	10	03/03/06 13:01
Dibromochloromethane	ND		5.00	µg/L	10	03/03/06 13:01
Dibromomethane	ND		5.00	µg/L	10	03/03/06 13:01
Dichlorodifluoromethane	ND		10.0	µg/L	10	03/03/06 13:01
Ethylbenzene	ND		5.00	µg/L	10	03/03/06 13:01
Hexachlorobutadiene	ND		10.0	µg/L	10	03/03/06 13:01
Isopropylbenzene	ND		5.00	µg/L	10	03/03/06 13:01
Methyl tert-butyl ether	ND		5.00	µg/L	10	03/03/06 13:01
Methylene chloride	ND		20.0	µg/L	10	03/03/06 13:01
n-Butylbenzene	ND		5.00	µg/L	10	03/03/06 13:01
n-Propylbenzene	ND		5.00	µg/L	10	03/03/06 13:01
Naphthalene	ND		10.0	µg/L	10	03/03/06 13:01
p-Isopropyltoluene	ND		5.00	µg/L	10	03/03/06 13:01
sec-Butylbenzene	ND		5.00	µg/L	10	03/03/06 13:01
Styrene	ND		5.00	µg/L	10	03/03/06 13:01
tert-Butylbenzene	ND		5.00	µg/L	10	03/03/06 13:01
Tetrachloroethene	ND		5.00	µg/L	10	03/03/06 13:01
Toluene	ND		5.00	µg/L	10	03/03/06 13:01
trans-1,2-Dichloroethene	ND		5.00	µg/L	10	03/03/06 13:01
trans-1,3-Dichloropropene	ND		5.00	µg/L	10	03/03/06 13:01
Trichloroethene	225		5.00	µg/L	10	03/03/06 13:01
Trichlorofluoromethane	ND		10.0	µg/L	10	03/03/06 13:01
Vinyl chloride	ND		10.0	µg/L	10	03/03/06 13:01
Xylenes (total)	ND		10.0	µg/L	10	03/03/06 13:01
Surr: 1,2-Dichloroethane-d4	103		75-134	%REC	10	03/03/06 13:01
Surr: 4-Bromofluorobenzene	103		75-125	%REC	10	03/03/06 13:01
Surr: Dibromofluoromethane	102		75-127	%REC	10	03/03/06 13:01
Surr: Toluene-d8	108		75-125	%REC	10	03/03/06 13:01

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
S	Spike Recovery outside accepted recovery limits		

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StateCertNo: 10155

Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-009A
Project:	Associated Textiles	**Client Sample ID:**	*MW9 022806*
W Order:	0603003	**Collection Date:**	02/28/06 16:36
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11 Sample Size: 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS %Moisture:	**BatchNo:**	R4688
Revision:	03/06/06 7:28:28 A TestCode 8260W	**FileID:**	1-SAMP-T2739.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 18:52
1,1,1-Trichloroethane	ND		0.50	µg/L	1	03/02/06 18:52
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1	03/02/06 18:52
1,1,2-Trichloroethane	ND		0.50	µg/L	1	03/02/06 18:52
1,1-Dichloroethane	ND		0.50	µg/L	1	03/02/06 18:52
1,1-Dichloroethene	ND		0.50	µg/L	1	03/02/06 18:52
1,1-Dichloropropene	ND		0.50	µg/L	1	03/02/06 18:52
1,2,3-Trichlorobenzene	ND		1.00	µg/L	1	03/02/06 18:52
1,2,3-Trichloropropane	ND		0.50	µg/L	1	03/02/06 18:52
1,2,4-Trichlorobenzene	ND		1.00	µg/L	1	03/02/06 18:52
1,2,4-Trimethylbenzene	45.8	E	0.50	µg/L	1	03/02/06 18:52
1,2-Dibromo-3-chloropropane	ND		1.00	µg/L	1	03/02/06 18:52
1,2-Dibromoethane	ND		0.50	µg/L	1	03/02/06 18:52
1,2-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 18:52
1,2-Dichloroethane	ND		0.50	µg/L	1	03/02/06 18:52
1,2-Dichloropropane	ND		0.50	µg/L	1	03/02/06 18:52
1,3,5-Trimethylbenzene	7.56		0.50	µg/L	1	03/02/06 18:52
1,3-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 18:52
1,3-Dichloropropane	ND		0.50	µg/L	1	03/02/06 18:52
1,4-Dichlorobenzene	ND		0.50	µg/L	1	03/02/06 18:52
2,2-Dichloropropane	ND		0.50	µg/L	1	03/02/06 18:52
2-Chlorotoluene	ND		0.50	µg/L	1	03/02/06 18:52
4-Chlorotoluene	ND		0.50	µg/L	1	03/02/06 18:52
Benzene	ND		0.50	µg/L	1	03/02/06 18:52
Bromobenzene	ND		0.50	µg/L	1	03/02/06 18:52
Bromochloromethane	ND		0.50	µg/L	1	03/02/06 18:52
Bromodichloromethane	ND		0.50	µg/L	1	03/02/06 18:52
Bromoform	ND		0.50	µg/L	1	03/02/06 18:52
Bromomethane	ND		1.00	µg/L	1	03/02/06 18:52
Carbon tetrachloride	ND		0.50	µg/L	1	03/02/06 18:52
Chlorobenzene	ND		0.50	µg/L	1	03/02/06 18:52
Chloroethane	ND		1.00	µg/L	1	03/02/06 18:52
Chloroform	ND		0.50	µg/L	1	03/02/06 18:52
Chloromethane	ND		1.00	µg/L	1	03/02/06 18:52
cis-1,2-Dichloroethene	72.7	E	0.50	µg/L	1	03/02/06 18:52

Qualifiers:

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- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-009A
Project:	Associated Textiles	**Client Sample ID:**	*MW9 022806*
W Order:	0603003	**Collection Date:**	02/28/06 16:36
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2739.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		0.50	µg/L	1	03/02/06 18:52
Dibromochloromethane	ND		0.50	µg/L	1	03/02/06 18:52
Dibromomethane	ND		0.50	µg/L	1	03/02/06 18:52
Dichlorodifluoromethane	ND		1.00	µg/L	1	03/02/06 18:52
Ethylbenzene	26.4		0.50	µg/L	1	03/02/06 18:52
Hexachlorobutadiene	ND		1.00	µg/L	1	03/02/06 18:52
Isopropylbenzene	4.36		0.50	µg/L	1	03/02/06 18:52
Methyl tert-butyl ether	ND		0.50	µg/L	1	03/02/06 18:52
Methylene chloride	ND		2.00	µg/L	1	03/02/06 18:52
n-Butylbenzene	ND		0.50	µg/L	1	03/02/06 18:52
n-Propylbenzene	5.54		0.50	µg/L	1	03/02/06 18:52
Naphthalene	5.36		1.00	µg/L	1	03/02/06 18:52
p-Isopropyltoluene	ND		0.50	µg/L	1	03/02/06 18:52
sec-Butylbenzene	ND		0.50	µg/L	1	03/02/06 18:52
Styrene	ND		0.50	µg/L	1	03/02/06 18:52
tert-Butylbenzene	ND		0.50	µg/L	1	03/02/06 18:52
Tetrachloroethene	32.2		0.50	µg/L	1	03/02/06 18:52
Toluene	6.72		0.50	µg/L	1	03/02/06 18:52
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	03/02/06 18:52
trans-1,3-Dichloropropene	ND		0.50	µg/L	1	03/02/06 18:52
Trichloroethene	18.8		0.50	µg/L	1	03/02/06 18:52
Trichlorofluoromethane	ND		1.00	µg/L	1	03/02/06 18:52
Vinyl chloride	1.10		1.00	µg/L	1	03/02/06 18:52
Xylenes (total)	92.5		1.00	µg/L	1	03/02/06 18:52
Surr: 1,2-Dichloroethane-d4	99.2		75-134	%REC	1	03/02/06 18:52
Surr: 4-Bromofluorobenzene	109		75-125	%REC	1	03/02/06 18:52
Surr: Dibromofluoromethane	98.6		75-127	%REC	1	03/02/06 18:52
Surr: Toluene-d8	105		75-125	%REC	1	03/02/06 18:52

Qualifiers:

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- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
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Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-009A**
Project:	Associated Textiles	**Client Sample ID:**	*MW9 022806*
W Order:	0603003	**Collection Date:**	02/28/06 16:36
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11 Sample Size: 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS %Moisture:	**BatchNo:**	R4697
Revision:	03/06/06 11:34:19 A **TestCode** 8260W	**FileID:**	1-DL-T2754.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		1.25	µg/L	2.5	03/03/06 13:33
1,1,1-Trichloroethane	ND		1.25	µg/L	2.5	03/03/06 13:33
1,1,2,2-Tetrachloroethane	ND		1.25	µg/L	2.5	03/03/06 13:33
1,1,2-Trichloroethane	ND		1.25	µg/L	2.5	03/03/06 13:33
1,1-Dichloroethane	ND		1.25	µg/L	2.5	03/03/06 13:33
1,1-Dichloroethene	ND		1.25	µg/L	2.5	03/03/06 13:33
1,1-Dichloropropene	ND		1.25	µg/L	2.5	03/03/06 13:33
1,2,3-Trichlorobenzene	ND		2.50	µg/L	2.5	03/03/06 13:33
1,2,3-Trichloropropane	ND		1.25	µg/L	2.5	03/03/06 13:33
1,2,4-Trichlorobenzene	ND		2.50	µg/L	2.5	03/03/06 13:33
1,2,4-Trimethylbenzene	46.8		1.25	µg/L	2.5	03/03/06 13:33
1,2-Dibromo-3-chloropropane	ND		2.50	µg/L	2.5	03/03/06 13:33
1,2-Dibromoethane	ND		1.25	µg/L	2.5	03/03/06 13:33
1,2-Dichlorobenzene	ND		1.25	µg/L	2.5	03/03/06 13:33
1,2-Dichloroethane	ND		1.25	µg/L	2.5	03/03/06 13:33
1,2-Dichloropropane	ND		1.25	µg/L	2.5	03/03/06 13:33
1,3,5-Trimethylbenzene	7.35		1.25	µg/L	2.5	03/03/06 13:33
1,3-Dichlorobenzene	ND		1.25	µg/L	2.5	03/03/06 13:33
1,3-Dichloropropane	ND		1.25	µg/L	2.5	03/03/06 13:33
1,4-Dichlorobenzene	ND		1.25	µg/L	2.5	03/03/06 13:33
2,2-Dichloropropane	ND		1.25	µg/L	2.5	03/03/06 13:33
2-Chlorotoluene	ND		1.25	µg/L	2.5	03/03/06 13:33
4-Chlorotoluene	ND		1.25	µg/L	2.5	03/03/06 13:33
Benzene	ND		1.25	µg/L	2.5	03/03/06 13:33
Bromobenzene	ND		1.25	µg/L	2.5	03/03/06 13:33
Bromochloromethane	ND		1.25	µg/L	2.5	03/03/06 13:33
Bromodichloromethane	ND		1.25	µg/L	2.5	03/03/06 13:33
Bromoform	ND		1.25	µg/L	2.5	03/03/06 13:33
Bromomethane	ND		2.50	µg/L	2.5	03/03/06 13:33
Carbon tetrachloride	ND		1.25	µg/L	2.5	03/03/06 13:33
Chlorobenzene	ND		1.25	µg/L	2.5	03/03/06 13:33
Chloroethane	ND		2.50	µg/L	2.5	03/03/06 13:33
Chloroform	ND		1.25	µg/L	2.5	03/03/06 13:33
Chloromethane	ND		2.50	µg/L	2.5	03/03/06 13:33
cis-1,2-Dichloroethene	68.1		1.25	µg/L	2.5	03/03/06 13:33

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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StateCertNo: 10155

Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	0603003-009A
Project:	Associated Textiles	**Client Sample ID:**	*MW9 022806*
W Order:	0603003	**Collection Date:**	02/28/06 16:36
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 H	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4697
Revision:	03/06/06 11:34:19 A	**TestCode** 8260W	**FileID:** 1-DL-T2754.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		1.25	µg/L	2.5	03/03/06 13:33
Dibromochloromethane	ND		1.25	µg/L	2.5	03/03/06 13:33
Dibromomethane	ND		1.25	µg/L	2.5	03/03/06 13:33
Dichlorodifluoromethane	ND		2.50	µg/L	2.5	03/03/06 13:33
Ethylbenzene	27.5		1.25	µg/L	2.5	03/03/06 13:33
Hexachlorobutadiene	ND		2.50	µg/L	2.5	03/03/06 13:33
Isopropylbenzene	3.92		1.25	µg/L	2.5	03/03/06 13:33
Methyl tert-butyl ether	ND		1.25	µg/L	2.5	03/03/06 13:33
Methylene chloride	ND		5.00	µg/L	2.5	03/03/06 13:33
n-Butylbenzene	ND		1.25	µg/L	2.5	03/03/06 13:33
n-Propylbenzene	4.40		1.25	µg/L	2.5	03/03/06 13:33
Naphthalene	5.22		2.50	µg/L	2.5	03/03/06 13:33
p-Isopropyltoluene	ND		1.25	µg/L	2.5	03/03/06 13:33
sec-Butylbenzene	ND		1.25	µg/L	2.5	03/03/06 13:33
Styrene	ND		1.25	µg/L	2.5	03/03/06 13:33
tert-Butylbenzene	ND		1.25	µg/L	2.5	03/03/06 13:33
Tetrachloroethene	30.0		1.25	µg/L	2.5	03/03/06 13:33
Toluene	7.33		1.25	µg/L	2.5	03/03/06 13:33
trans-1,2-Dichloroethene	ND		1.25	µg/L	2.5	03/03/06 13:33
trans-1,3-Dichloropropene	ND		1.25	µg/L	2.5	03/03/06 13:33
Trichloroethene	18.0		1.25	µg/L	2.5	03/03/06 13:33
Trichlorofluoromethane	ND		2.50	µg/L	2.5	03/03/06 13:33
Vinyl chloride	ND		2.50	µg/L	2.5	03/03/06 13:33
Xylenes (total)	94.1		2.50	µg/L	2.5	03/03/06 13:33
Surr: 1,2-Dichloroethane-d4	102		75-134	%REC	2.5	03/03/06 13:33
Surr: 4-Bromofluorobenzene	107		75-125	%REC	2.5	03/03/06 13:33
Surr: Dibromofluoromethane	100		75-127	%REC	2.5	03/03/06 13:33
Surr: Toluene-d8	105		75-125	%REC	2.5	03/03/06 13:33

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
S	Spike Recovery outside accepted recovery limits		

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-010A**
Project:	Associated Textiles	**Client Sample ID:**	*DUPE1 022806*
W Order:	0603003	**Collection Date:**	02/28/06 0:00
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS0T II	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2740.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		25.0	µg/L	50	03/02/06 19:23
1,1,1-Trichloroethane	ND		25.0	µg/L	50	03/02/06 19:23
1,1,2,2-Tetrachloroethane	ND		25.0	µg/L	50	03/02/06 19:23
1,1,2-Trichloroethane	ND		25.0	µg/L	50	03/02/06 19:23
1,1-Dichloroethane	ND		25.0	µg/L	50	03/02/06 19:23
1,1-Dichloroethene	ND		25.0	µg/L	50	03/02/06 19:23
1,1-Dichloropropene	ND		25.0	µg/L	50	03/02/06 19:23
1,2,3-Trichlorobenzene	ND		50.0	µg/L	50	03/02/06 19:23
1,2,3-Trichloropropane	ND		25.0	µg/L	50	03/02/06 19:23
1,2,4-Trichlorobenzene	ND		50.0	µg/L	50	03/02/06 19:23
1,2,4-Trimethylbenzene	1330		25.0	µg/L	50	03/02/06 19:23
1,2-Dibromo-3-chloropropane	ND		50.0	µg/L	50	03/02/06 19:23
1,2-Dibromoethane	ND		25.0	µg/L	50	03/02/06 19:23
1,2-Dichlorobenzene	ND		25.0	µg/L	50	03/02/06 19:23
1,2-Dichloroethane	ND		25.0	µg/L	50	03/02/06 19:23
1,2-Dichloropropane	ND		25.0	µg/L	50	03/02/06 19:23
1,3,5-Trimethylbenzene	324		25.0	µg/L	50	03/02/06 19:23
1,3-Dichlorobenzene	ND		25.0	µg/L	50	03/02/06 19:23
1,3-Dichloropropane	ND		25.0	µg/L	50	03/02/06 19:23
1,4-Dichlorobenzene	ND		25.0	µg/L	50	03/02/06 19:23
2,2-Dichloropropane	ND		25.0	µg/L	50	03/02/06 19:23
2-Chlorotoluene	ND		25.0	µg/L	50	03/02/06 19:23
4-Chlorotoluene	ND		25.0	µg/L	50	03/02/06 19:23
Benzene	1740		25.0	µg/L	50	03/02/06 19:23
Bromobenzene	ND		25.0	µg/L	50	03/02/06 19:23
Bromochloromethane	ND		25.0	µg/L	50	03/02/06 19:23
Bromodichloromethane	ND		25.0	µg/L	50	03/02/06 19:23
Bromoform	ND		25.0	µg/L	50	03/02/06 19:23
Bromomethane	ND		50.0	µg/L	50	03/02/06 19:23
Carbon tetrachloride	ND		25.0	µg/L	50	03/02/06 19:23
Chlorobenzene	ND		25.0	µg/L	50	03/02/06 19:23
Chloroethane	ND		50.0	µg/L	50	03/02/06 19:23
Chloroform	ND		25.0	µg/L	50	03/02/06 19:23
Chloromethane	ND		50.0	µg/L	50	03/02/06 19:23
cis-1,2-Dichloroethene	ND		25.0	µg/L	50	03/02/06 19:23

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-010A**
Project:	Associated Textiles	**Client Sample ID:**	*DUPE1 022806*
W Order:	0603003	**Collection Date:**	02/28/06 0:00
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4688
Revision:	03/06/06 7:28:28 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2740.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		25.0	µg/L	50	03/02/06 19:23
Dibromochloromethane	ND		25.0	µg/L	50	03/02/06 19:23
Dibromomethane	ND		25.0	µg/L	50	03/02/06 19:23
Dichlorodifluoromethane	ND		50.0	µg/L	50	03/02/06 19:23
Ethylbenzene	854		25.0	µg/L	50	03/02/06 19:23
Hexachlorobutadiene	ND		50.0	µg/L	50	03/02/06 19:23
Isopropylbenzene	46.5		25.0	µg/L	50	03/02/06 19:23
Methyl tert-butyl ether	ND		25.0	µg/L	50	03/02/06 19:23
Methylene chloride	ND		100	µg/L	50	03/02/06 19:23
n-Butylbenzene	ND		25.0	µg/L	50	03/02/06 19:23
n-Propylbenzene	83.0		25.0	µg/L	50	03/02/06 19:23
Naphthalene	158		50.0	µg/L	50	03/02/06 19:23
p-Isopropyltoluene	ND		25.0	µg/L	50	03/02/06 19:23
sec-Butylbenzene	ND		25.0	µg/L	50	03/02/06 19:23
Styrene	ND		25.0	µg/L	50	03/02/06 19:23
tert-Butylbenzene	ND		25.0	µg/L	50	03/02/06 19:23
Tetrachloroethene	ND		25.0	µg/L	50	03/02/06 19:23
Toluene	235		25.0	µg/L	50	03/02/06 19:23
trans-1,2-Dichloroethene	ND		25.0	µg/L	50	03/02/06 19:23
trans-1,3-Dichloropropene	ND		25.0	µg/L	50	03/02/06 19:23
Trichloroethene	ND		25.0	µg/L	50	03/02/06 19:23
Trichlorofluoromethane	ND		50.0	µg/L	50	03/02/06 19:23
Vinyl chloride	ND		50.0	µg/L	50	03/02/06 19:23
Xylenes (total)	2830		50.0	µg/L	50	03/02/06 19:23
Surr: 1,2-Dichloroethane-d4	103		75-134	%REC	50	03/02/06 19:23
Surr: 4-Bromofluorobenzene	106		75-125	%REC	50	03/02/06 19:23
Surr: Dibromofluoromethane	98.8		75-127	%REC	50	03/02/06 19:23
Surr: Toluene-d8	106		75-125	%REC	50	03/02/06 19:23

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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StateCertNo: 10155

Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	Lab ID:	0603003-011A
Project:	Associated Textiles	Client Sample ID:	TRIP BLANK
W Order:	0603003	Collection Date:	02/28/06 0:00
Matrix:	WATER	Date Received:	02/28/06 20:15
Inst. ID:	MS01 11	Sample Size: 10 mL	PrepDate:
ColumnID:	Rtx-VMS	%Moisture:	BatchNo: R4697
Revision:	03/06/06 11:34:19 A	TestCode 8260W	FileID: 1-SAMP-T2755.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1	03/03/06 14:05
1,1,1-Trichloroethane	ND		0.50	µg/L	1	03/03/06 14:05
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1	03/03/06 14:05
1,1,2-Trichloroethane	ND		0.50	µg/L	1	03/03/06 14:05
1,1-Dichloroethane	ND		0.50	µg/L	1	03/03/06 14:05
1,1-Dichloroethene	ND		0.50	µg/L	1	03/03/06 14:05
1,1-Dichloropropene	ND		0.50	µg/L	1	03/03/06 14:05
1,2,3-Trichlorobenzene	ND		1.00	µg/L	1	03/03/06 14:05
1,2,3-Trichloropropane	ND		0.50	µg/L	1	03/03/06 14:05
1,2,4-Trichlorobenzene	ND		1.00	µg/L	1	03/03/06 14:05
1,2,4-Trimethylbenzene	ND		0.50	µg/L	1	03/03/06 14:05
1,2-Dibromo-3-chloropropane	ND		1.00	µg/L	1	03/03/06 14:05
1,2-Dibromoethane	ND		0.50	µg/L	1	03/03/06 14:05
1,2-Dichlorobenzene	ND		0.50	µg/L	1	03/03/06 14:05
1,2-Dichloroethane	ND		0.50	µg/L	1	03/03/06 14:05
1,2-Dichloropropane	ND		0.50	µg/L	1	03/03/06 14:05
1,3,5-Trimethylbenzene	ND		0.50	µg/L	1	03/03/06 14:05
1,3-Dichlorobenzene	ND		0.50	µg/L	1	03/03/06 14:05
1,3-Dichloropropane	ND		0.50	µg/L	1	03/03/06 14:05
1,4-Dichlorobenzene	ND		0.50	µg/L	1	03/03/06 14:05
2,2-Dichloropropane	ND		0.50	µg/L	1	03/03/06 14:05
2-Chlorotoluene	ND		0.50	µg/L	1	03/03/06 14:05
4-Chlorotoluene	ND		0.50	µg/L	1	03/03/06 14:05
Benzene	ND		0.50	µg/L	1	03/03/06 14:05
Bromobenzene	ND		0.50	µg/L	1	03/03/06 14:05
Bromochloromethane	ND		0.50	µg/L	1	03/03/06 14:05
Bromodichloromethane	ND		0.50	µg/L	1	03/03/06 14:05
Bromoform	ND		0.50	µg/L	1	03/03/06 14:05
Bromomethane	ND		1.00	µg/L	1	03/03/06 14:05
Carbon tetrachloride	ND		0.50	µg/L	1	03/03/06 14:05
Chlorobenzene	ND		0.50	µg/L	1	03/03/06 14:05
Chloroethane	ND		1.00	µg/L	1	03/03/06 14:05
Chloroform	ND		0.50	µg/L	1	03/03/06 14:05
Chloromethane	ND		1.00	µg/L	1	03/03/06 14:05
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	03/03/06 14:05

Qualifiers:
- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits

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StateCertNo: 10155

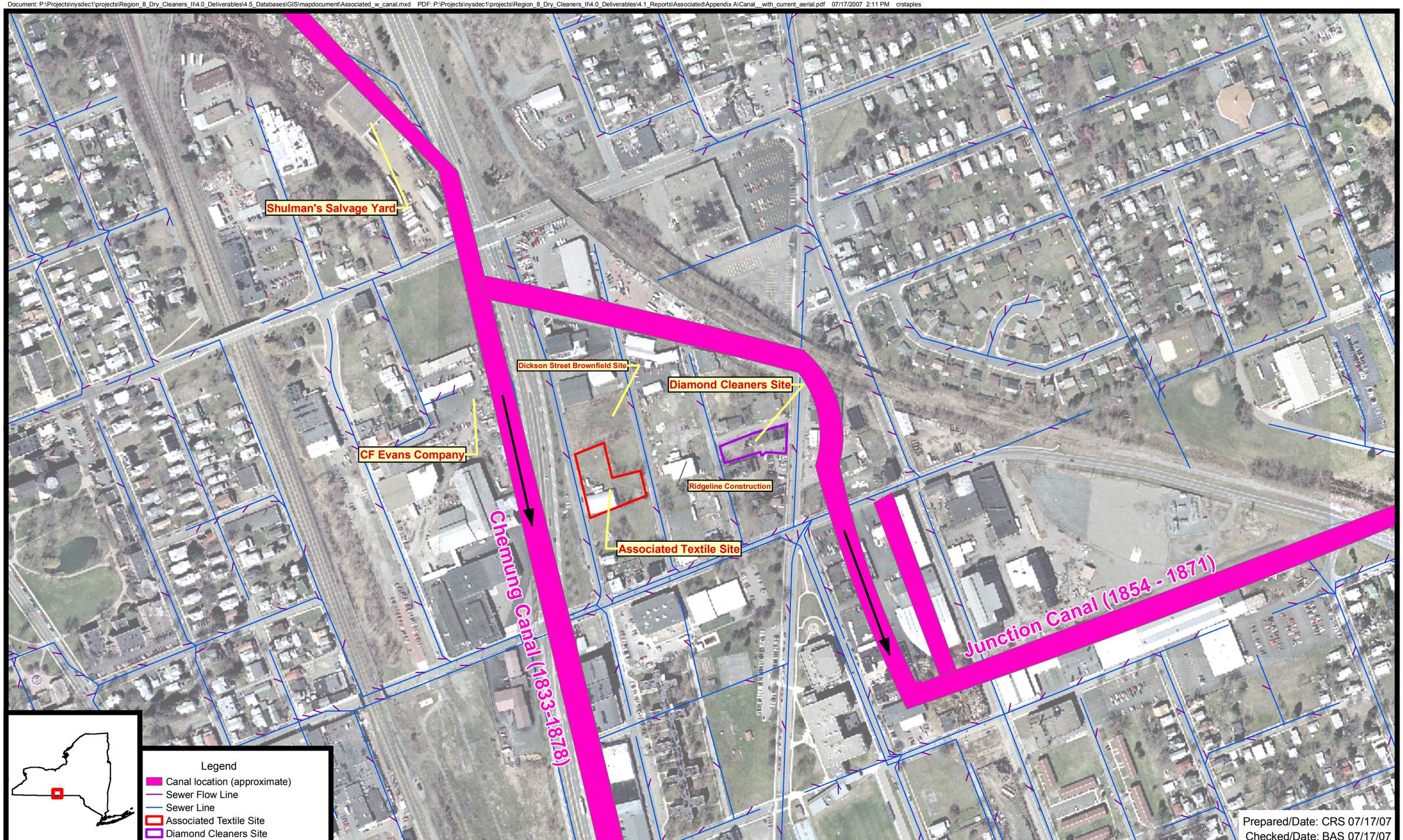
Analytical Results

CLIENT:	O'Brien & Gere Engineers, Inc.	**Lab ID:**	**0603003-011A**
Project:	Associated Textiles	**Client Sample ID:**	***TRIP BLANK***
W Order:	0603003	**Collection Date:**	02/28/06 0:00
Matrix:	WATER	**Date Received:**	02/28/06 20:15
Inst. ID:	MS01 11	**Sample Size:** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R4697
Revision:	03/06/06 11:34:19 A	**TestCode** 8260W	**FileID:** 1-SAMP-T2755.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**SW8260B**		
cis-1,3-Dichloropropene	ND		0.50	µg/L	1	03/03/06 14:05
Dibromochloromethane	ND		0.50	µg/L	1	03/03/06 14:05
Dibromomethane	ND		0.50	µg/L	1	03/03/06 14:05
Dichlorodifluoromethane	ND		1.00	µg/L	1	03/03/06 14:05
Ethylbenzene	ND		0.50	µg/L	1	03/03/06 14:05
Hexachlorobutadiene	ND		1.00	µg/L	1	03/03/06 14:05
Isopropylbenzene	ND		0.50	µg/L	1	03/03/06 14:05
Methyl tert-butyl ether	ND		0.50	µg/L	1	03/03/06 14:05
Methylene chloride	ND		2.00	µg/L	1	03/03/06 14:05
n-Butylbenzene	ND		0.50	µg/L	1	03/03/06 14:05
n-Propylbenzene	ND		0.50	µg/L	1	03/03/06 14:05
Naphthalene	ND		1.00	µg/L	1	03/03/06 14:05
p-Isopropyltoluene	ND		0.50	µg/L	1	03/03/06 14:05
sec-Butylbenzene	ND		0.50	µg/L	1	03/03/06 14:05
Styrene	ND		0.50	µg/L	1	03/03/06 14:05
tert-Butylbenzene	ND		0.50	µg/L	1	03/03/06 14:05
Tetrachloroethene	ND		0.50	µg/L	1	03/03/06 14:05
Toluene	ND		0.50	µg/L	1	03/03/06 14:05
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	03/03/06 14:05
trans-1,3-Dichloropropene	ND		0.50	µg/L	1	03/03/06 14:05
Trichloroethene	ND		0.50	µg/L	1	03/03/06 14:05
Trichlorofluoromethane	ND		1.00	µg/L	1	03/03/06 14:05
Vinyl chloride	ND		1.00	µg/L	1	03/03/06 14:05
Xylenes (total)	ND		1.00	µg/L	1	03/03/06 14:05
Surr: 1,2-Dichloroethane-d4	104		75-134	%REC	1	03/03/06 14:05
Surr: 4-Bromofluorobenzene	104		75-125	%REC	1	03/03/06 14:05
Surr: Dibromofluoromethane	103		75-127	%REC	1	03/03/06 14:05
Surr: Toluene-d8	106		75-125	%REC	1	03/03/06 14:05

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Conf. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits



NYSDEC
Associated Textile Rental Services Site
Elmira, New York

MACTEC

Approximate Location of Chemung Canal and Junction Canal
Project 3612-06-2059 Figure A.1

APPENDIX B

SITE PHOTOGRAPHS

ASSOCIATED TEXTILES SITE PHOTOGRAPHS

Former Site Building - Looking South.

Back (east) of Site Building – Looking West.

ASSOCIATED TEXTILES SITE PHOTOGRAPHS

Former Tank Storage Area – Looking East.

Back Door of Former Site Building – Looking Southeast.

ASSOCIATED TEXTILES SITE PHOTOGRAPHS

Sub-Slab Soil Vapor Sampling at SV-1.

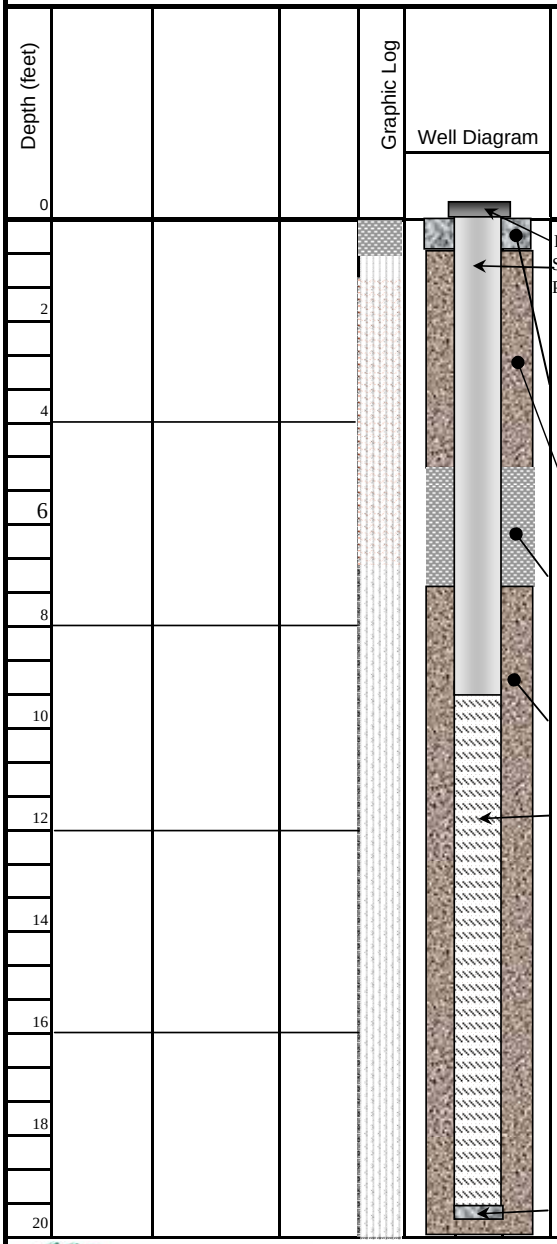
APPENDIX C

FIELD DATA RECORDS

Microwell Completion Diagram

Well No: GW-4

Project No.: 3612062059/07.2	**Project:** Region 8 Group 2 - Associated	**Checked By:** LONGLEY	
Client Name: NYSDEC	**Logged By:** SHAW	**Protection Level:** D	**Ground Elevation:**
Drilling Contractor: GEOLOGIC	**Drilling Method:** DIRECT PUSH		**Driller's Name:** JOE MENSEL
Bit Type/Size: GEOPROBE ROD - 1 1/2"	**Soil Drilled:** 20	**Rig Type:** 66 DT Track Rig	**Start Date:** 11/8/2006 / **Finish Date:** 11/8/2006
Well Material: 1" I.D. Sch 40 PVC		**P.I.D. (eV): NA**	**Casing Size** N/A / **Auger Size:** 2"



Notes:

Well Construction Notes: (all depths in feet from ground surface)

Depth to Water Levels:

11/16/2006: 12.42 (TOR)

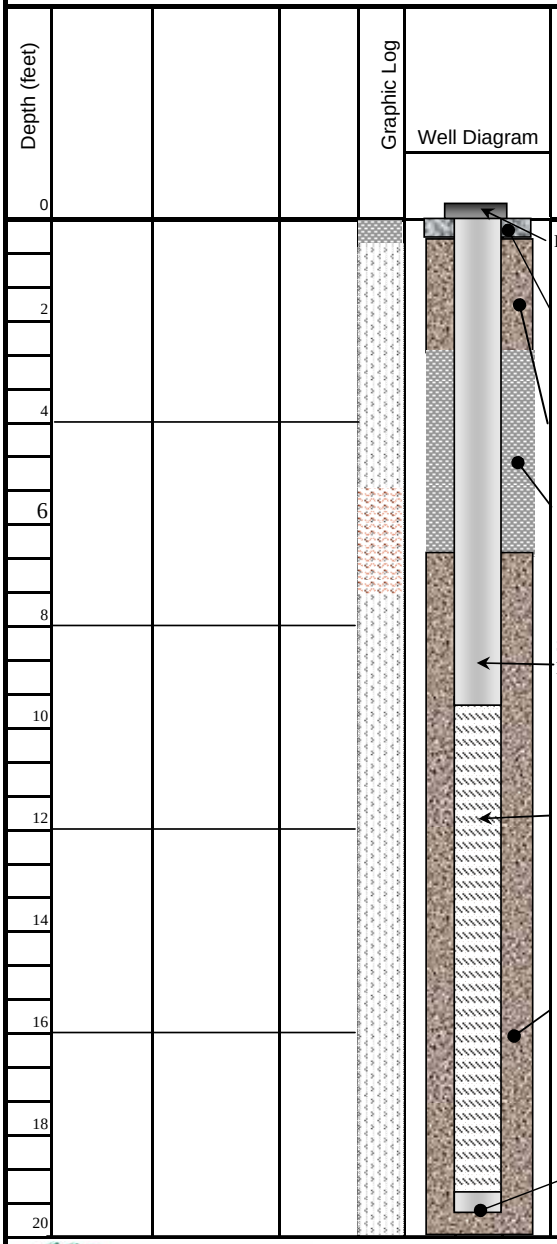
BOW: 18.70' (TOR)

TD: 20' BGS

Microwell Completion Diagram

Well No: GW-13

Project No.: 3612062059/07.2	**Project:** Region 8 Group 2 - Associated	**Checked By:** LONGLEY	
Client Name: NYSDEC	**Logged By:** SHAW	**Protection Level:** D	**Ground Elevation:**
Drilling Contractor: GEOLOGIC	**Drilling Method:** DIRECT PUSH		**Driller's Name:** JOE MENSEL
Bit Type/Size: GEOPROBE ROD - 1 1/2"	**Soil Drilled:** 20'	**Rig Type:** 66DT Track Rig	**Start Date:** 11/7/2006 / **Finish Date:** 11/7/2006
Well Material: 1" I.D. Sch 40 PVC		**P.I.D. (eV): NA**	**Casing Size** N/A / **Auger Size:** 2"



Notes:

Well Construction Notes: (all depths in feet from ground surface)

Depth to Water Levels:

11/16/2006: 12.23' (TOR)

During drilling, water observed at around 15.4'

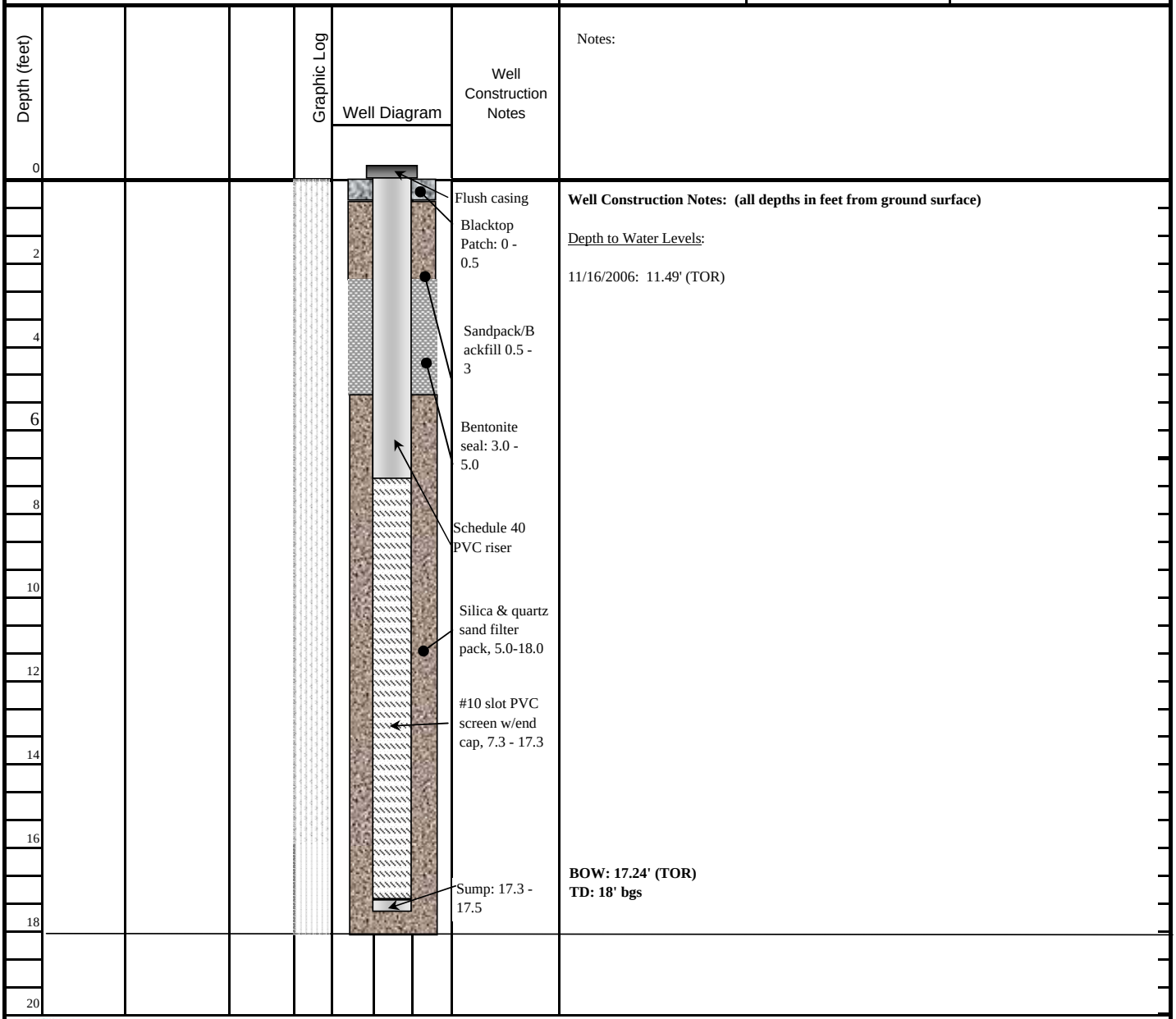
BOW = 18.49' (TOR)
TD = 20' BGS

MACTEC

Microwell Completion Diagram

Well No: GW-15

Project No.: 3612062059/07.2	**Project:** Region 8 Group 2 - Associated	**Checked By:** LONGLEY	
Client Name: NYSDEC	**Logged By:** SHAW	**Protection Level:** D	**Ground Elevation:**
Drilling Contractor: GEOLOGIC	**Drilling Method:** DIRECT PUSH	**Driller's Name:** JOE MENSEL	
Bit Type/Size: GEOPROBE ROD - 1 1/2"	**Soil Drilled:** 18'	**Rig Type:** 66DT Track Rig	**Start Date:** 11/8/2006	**Finish Date:** 11/8/2006
Well Material: 1" I.D. Sch 40 PVC		**P.I.D. (eV): NA**	**Casing Size** N/A	**Auger Size:** 2"



MACTEC

Microwell Completion Diagram

Well No: GW-19

Project No.: 3612062059/07.2	**Project:** Region 8 Group 2 - Associated	**Checked By:** LONGLEY	
Client Name: NYSDEC	**Logged By:** Caliccio	**Protection Level:** D	**Ground Elevation:**
Drilling Contractor: GEOLOGIC	**Drilling Method:** DIRECT PUSH		**Driller's Name:** JOE MENSEL
Bit Type/Size: GEOPROBE ROD - 1 1/2"	**Soil Drilled:** 14.5	**Rig Type:** 66DT Track Rig	**Start Date:** 11/9/2006 / **Finish Date:** 11/9/2006
Well Material: 1" I.D. Sch 40 PVC		**P.I.D. (eV): NA**	**Casing Size** N/A / **Auger Size:** 2"

Depth (feet) | Graphic Log | Well Diagram | Well Construction Notes

0
2
4
6
8
10
12
14
16
18
20

Flush casing

Schedule 40 PVC casing

Cement: 0 - 1.5

Bentonite seal, 1.5 - 3.5

#10 slot PVC screen w/end cap, 4 - 14

Silica sand filter pack, 3.5 - 14.5.

Notes:

Well Construction Notes: (all depths in feet from ground surface)

Depth to Water Levels:

11/16/2006: 5.28' (TOR)

BOW:
TD = 14.5'

MACTEC

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Dry Cleaners Group 2 Associated
JOB NUMBER: 3812062059/0702
LOCATION ID: MW-1R → MW-1
FIELD SAMPLE ID: ATMW01R01701XX
EVENT NO.: 1
ACTIVITY: START 1405 END 1520
SAMPLE TIME: 1500
DATE: 11/9/06

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 14.60 feet
FINAL DEPTH TO WATER: 14.63 feet
SCREEN LENGTH: n/a feet
TOTAL VOL. PURGED: 4.4 gallons
(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING

HISTORICAL WELL DEPTH (TOR): n/a feet
PRESSURE TO PUMP: n/a psi
REFILL SETTING: n/a

PROTECTIVE CASING STICKUP (FROM GROUND): flush feet
PID AMBIENT AIR: n/a ppmv
PID WELL MOUTH: n/a ppmv
DISCHARGE SETTING: n/a

CASING / WELL DIFFERENCE: 0.3 feet
WELL DIAMETER: 2 inches

18.70

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	X		
CASING LOCKED	X		X
COLLAR			X

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1420	14.60								16.70	initiate pump
1427	14.63	450	14	2.14	6.7	*	*	-101	16.70	
1440	14.63	450	14	1.75	6.9	*	*	-114	16.70	
1450	14.63	450	14	1.43	6.9	*	*	-120	16.70	
1455	14.63	450	14	1.40	6.9	*	*	-122	16.70	
1458	14.63	450	14	1.40	6.9	*	*	-123	16.70	collect sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] DEDICATED MARSCHALK BLADDER
- [ ] NON-DEDICATED MARSCHALK BLADDER
- [ ] OTHER peristaltic

TYPE OF TUBING
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER ______

ANALYTICAL PARAMETERS

CONTROL NUMBER ______

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	__/__/__
[x] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[x]	__/__/__
[x] SVOCs	OLMO4.2	4 DEG. C	1 ~~2~~ X 1 L AG	[x]	__/__
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	__/__
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	__
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	__
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	__
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	__
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	__
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	__/__/__
[ ] OTHER ______				[ ]	__/__/__

PURGE OBSERVATIONS

water is black, highly turbid and has ~~strong~~ gasoline odor

PURGE WATER CONTAINERIZED YES (NO)

LOCATION NOTES

NOTES: Six well pigs in place 4 of which are coated with a black oil
* does not work

SIGNATURE: [signature] 11/9/06

CHECKED BY: ______

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Region 9 Dry Cleaners Group 2 Area | JOB NUMBER: 361206059/072

LOCATION ID: MW-1 → D to MW-11R | FIELD SAMPLE ID: ATMW001017011XX | EVENT NO.: 1

ACTIVITY: START 0810 END 0950 | SAMPLE TIME: 0935 | DATE: 11/7/06

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 14.12 feet

FINAL DEPTH TO WATER: 14.18 feet

SCREEN LENGTH: n/a feet

TOTAL VOL. PURGED: 2.81 gallons

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

MEASUREMENT POINT: [x] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

HISTORICAL WELL DEPTH (TOR): n/a feet

PRESSURE TO PUMP: n/a psi

REFILL SETTING: n/a

PROTECTIVE CASING STICKUP (FROM GROUND): flush feet

PID AMBIENT AIR: n/a ppmv

PID WELL MOUTH: n/a ppmv

DISCHARGE SETTING: n/a

CASING / WELL DIFFERENCE: -.95 feet

WELL DIAMETER: 4 inches

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING			✓
LOCKED	✓		
COLLAR			✓

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
0839	14.12	—	—	—	—	—	—	—	16.60	initiate purge
0850	14.18	200	14	0.90	7.0	14	*	-50	16.60	
0900	14.18	200	14	2.2	7.1	14	*	-66	16.60	
0905	14.18	200	14	3.2	7.1	13	*	-72	16.60	
0910	14.18	200	14	3.1	7.1	13	*	-75	16.60	
0913	14.18	200	14	3.2	7.1	12	*	-80	16.60	
0916	14.18	200	14	2.9	7.1	12	*	-90	16.60	
0920	14.18	200	14	2.8	7.1	12	*	-95	16.60	
0925	14.18	200	14	2.2	7.2	11	*	-95	16.60	
0930	14.18	200	14	2.2	7.2	11	*	-103	16.60	
0933	14.18	200	14	2.1	7.2	11	*	-104	16.60	collect samples

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER

[ ] NON-DEDICATED MARSCHALK BLADDER

[x] OTHER peristaltic

TYPE OF TUBING

[x] HIGH DENSITY POLYETHYLENE

[ ] OTHER _____

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[x] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[x]	/ /
[x] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[x]	/
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER _____				[ ]	/ /

PURGE OBSERVATIONS

fuel oil odor, 6 spill

PURGE WATER CONTAINERIZED YES (NO)

pigs inside well.

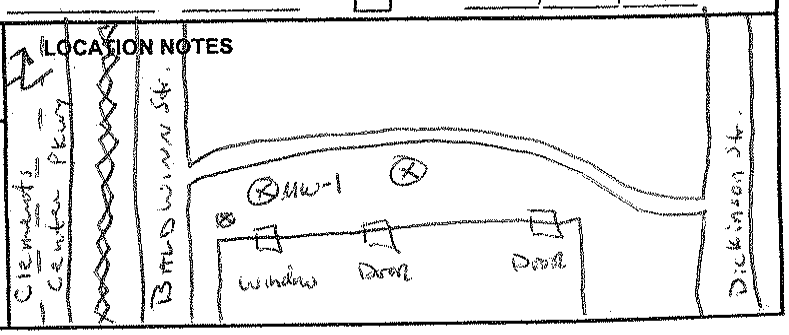
NOTES: * turbidity meter not working properly

pig removal prior to purging/sampling and replaced upon completion

SIGNATURE: _____ 11/7/06

CHECKED BY: _____

LOCATION NOTES



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Region 3 Dry Cleaner Group 2 Area | JOB NUMBER: 36126059.0072

LOCATION ID: MW-2 | FIELD SAMPLE ID: ATMW002001601XX | EVENT NO.: 1

ACTIVITY: START 0952 END 1058 | SAMPLE TIME: 1045 | DATE: 11/7/06

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	14.03 feet	HISTORICAL WELL DEPTH (TOR)	n/a feet	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet
FINAL DEPTH TO WATER	14.30 feet	PID AMBIENT AIR	n/a ppmv	CASING / WELL DIFFERENCE	0.50 feet
SCREEN LENGTH	n/a feet	PRESSURE TO PUMP	n/a psi	PID WELL MOUTH	n/a ppmv
TOTAL VOL. PURGED	1.40 gallons	REFILL SETTING	n/a	DISCHARGE SETTING	n/a
				WELL DIAMETER	2 inches

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING			✓
LOCKED	✓		
COLLAR			✓

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1000	14.03	—	—	—	—	—	—	—	15.70	initiate pump
1007	14.32	125	14	1.11	6.6	11	*	-117	15.70	
1012	14.32	125	14	3.07	6.7	12	*	-120	15.70	
1016	14.30	125	14	3.41	6.7	11	*	-121	15.70	
1021	14.30	125	14	3.70	6.7	11	*	-122	15.70	
1026	14.30	125	14	4.08	6.7	10	*	-124	15.70	
1030	14.30	125	14	3.33	6.7	9.9	*	-124	15.70	
1033	14.30	125	14	2.96	6.7	16	*	-124	15.70	
1036	14.30	125	14	3.04	6.7	10	*	-124	15.70	
1040	14.30	125	14	2.98	6.7	10	*	-126	15.70	
1043	14.30	125	14	3.13	6.7	11	*	-126	15.70	collect sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☐ DEDICATED MARSCHALK BLADDER
☐ NON-DEDICATED MARSCHALK BLADDER
☒ OTHER peristaltic

TYPE OF TUBING

☒ HIGH DENSITY POLYETHYLENE
☐ OTHER _____

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
☐ VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	☐	____/____/____
☒ VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	☒	____/____/____
☒ SVOCs	OLMO4.2	4 DEG. C	2X 1 L AG	☒	____/____
☐ PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	☐	____/____
☐ METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	☐	____
☐ MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	☐	____
☐ SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	☐	____
☐ NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	☐	____
☐ TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	☐	____
☐ METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	☐	____/____/____
☐ OTHER _____				☐	____/____/____

PURGE OBSERVATIONS

old gasoline odor present

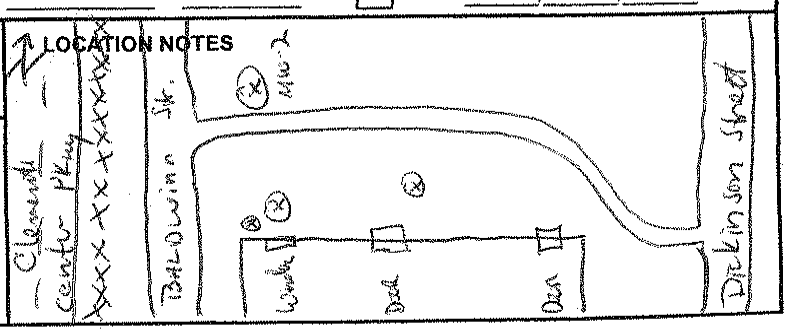
PURGE WATER CONTAINERIZED YES (NO)

NOTES: * turb probe not working

SIGNATURE: [signature] 11/7/06

CHECKED BY: [signature]

LOCATION NOTES



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Region 8 Dry Cleaners Group 2 Associated | JOB NUMBER: 361226059 | 1 of 2

LOCATION ID: MW-3 | FIELD SAMPLE ID: AT MW03 01601XX | EVENT NO.: 1

ACTIVITY: START 1615 END 1745 | SAMPLE TIME: 1711 | DATE: 11/6/06

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER	14.39 feet	MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet	CASING / WELL DIFFERENCE	-0.5 feet
FINAL DEPTH TO WATER	14.45 feet	HISTORICAL WELL DEPTH (TOR)	— feet	PID AMBIENT AIR	n/a ppmv	WELL DIAMETER	2 inches
SCREEN LENGTH	n/a feet	PRESSURE TO PUMP	n/a psi	PID WELL MOUTH	n/a ppmv		
TOTAL VOL. PURGED	2.54 gallons	REFILL SETTING	n/a	DISCHARGE SETTING	n/a		

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING			✓
LOCKED	✓		
COLLAR			✓

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1630	14.39	—	—	—	—	—	—	—	—	
1634	14.44	250	14	0.842	6.9	13	260	111	15.75	
1644	14.45	250	14	0.902	6.7	16	1.1	124		
1652	14.45	250	14	0.970	6.7	19	0	124		
1659	14.45	250	14	0.999	6.9	19	0	128		
1703	14.45	250	14	0.999	6.9	19	0	125		
1706	14.45	250	14	0.999	6.9	19	0	126		
1709	14.45	250	14	0.999	6.9	19	0	127		collect sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[X] OTHER Peristaltic Pump

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER _____

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[X]	/ /
[X] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[X]	/
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER _____				[ ]	/ /

PURGE OBSERVATIONS

No odors

PURGE WATER CONTAINERIZED YES (NO)

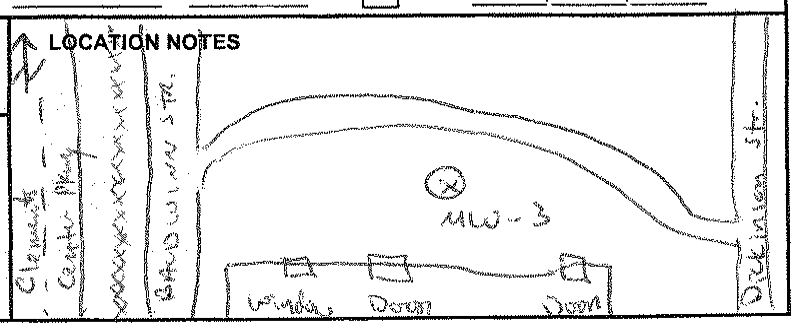
NOTES:

2 Times meter flashing 0.0 error on probe

SIGNATURE: _____ 11/6/06

CHECKED BY: _____

LOCATION NOTES



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Associated Textile | JOB NUMBER: 361206259
LOCATION ID: MW-4 | FIELD SAMPLE ID: ATMW04D1601RX | EVENT NO.:
ACTIVITY: START 1200 END 1315 | SAMPLE TIME: 1300 | DATE: 11/6/06

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER	14.43 feet	MEASUREMENT POINT: ☑ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING	PROTECTIVE CASING STICKUP (FROM GROUND)	feet	CASING / WELL DIFFERENCE	0.38 feet
FINAL DEPTH TO WATER	14.44 feet	HISTORICAL WELL DEPTH (TOR)	feet	PID AMBIENT AIR	ppmv	WELL DIAMETER	4 inches
SCREEN LENGTH	Unknown feet	PRESSURE TO PUMP	psi	PID WELL MOUTH	0.1 ppmv	WELL INTERGRITY:	YES	NO	N/A
TOTAL VOL. PURGED	gallons	REFILL SETTING		DISCHARGE SETTING		CAP	✓		
(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)						CASING	✓		
						LOCKED	✓		
						COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1210	Pump On						N/A			Pump on
1212	14.38	300	13.5	5.65	6.4	9.4		-110	~16'	
1217	14.38	300	13.3	1.90	6.8	9.9		-120		
1222	14.40	300	13.2	1.57	6.8	9.5		-120		
1227	14.42	300	13.1	1.37	6.9	9.2		-120		
1232	14.43	300	13.2	1.29	6.9	8.9		-120		
1237	14.44	300	13.2	1.20	6.9	8.6		-120		
1242	14.44	300	13.3	1.18	6.9	8.4		-120		
1247	14.44	300	13.3	1.19	6.9	8.2		-130		
1252	14.44	300	13.3	1.17	6.9	8.0		-140		
1257	14.44	300	13.2	1.16	6.9	7.9		-140		
1300	SAMPLE TIME									
1304	Pump off									Pump off

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ DEDICATED MARSCHALK BLADDER
- ☐ NON-DEDICATED MARSCHALK BLADDER
- ☑ OTHER Geo pump

TYPE OF TUBING
- ☑ HIGH DENSITY POLYETHYLENE
- ☐ OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
☑ VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	☐	/ /
☐ VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	☐	/ /
☑ SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	☑	/
☐ PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	☐	/
☐ METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	☐	
☐ MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	☐	
☐ SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	☐	
☐ NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	☐	
☐ TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	☐	
☐ METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	☐	/ /
☑ OTHER Onsite VOA	Field	N/A 4C	2 voas	☐	/ /

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES (NO) — Strong odor on purge water

LOCATION NOTES

Parking Area — N →

Site Building

X MW-4 Tree Line

NOTES:

SIGNATURE:

CHECKED BY:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Rogers Dry Cleaners Group 2 Area — JOB NUMBER: 36120625907.2

LOCATION ID: MW-85 — FIELD SAMPLE ID: ATMW005016 01XX — EVENT NO.: 1

ACTIVITY: START 0905 END 1030 — SAMPLE TIME: 1000 — DATE: 11/3/06

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	13.45 feet	HISTORICAL WELL DEPTH (TOR)	n/a feet	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet
FINAL DEPTH TO WATER	14.13 feet	PRESSURE TO PUMP	n/a psi	PID AMBIENT AIR	n/a ppmv
SCREEN LENGTH	n/a feet	REFILL SETTING	n/a	PID WELL MOUTH	n/a ppmv
TOTAL VOL. PURGED	0.92 gallons	DISCHARGE SETTING	n/a	CASING / WELL DIFFERENCE	0.5 feet
				WELL DIAMETER	4 inches

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	X		
CASING			X
LOCKED	X		
COLLAR			X

19.43

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
0919	13.45								16.43	Initiate pump
0927	13.72	80	15	1.74	7.0	K5	*	137	16.43	
0935	13.98	80	15	1.67	7.0	16	*	116	16.43	
0940	14.03	80	15	4.26	7.1	*	*	93	16.43	
0947	14.09	80	15	1.55	7.0	*	*	67	16.43	
0955	14.10	80	15	1.59	7.0	*	*	66	16.43	
0958	14.12	80	15	1.61	7.0	*	*	60	16.43	
1003	14.13	80	15	1.57	7.0	*	*	60	16.43	Collect samples

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[X] OTHER peristaltic

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[X]	/ /
[X] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[X]	/
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER _____				[ ]	/ /

PURGE OBSERVATIONS: gasoline odor, no sheen, clear, no flow

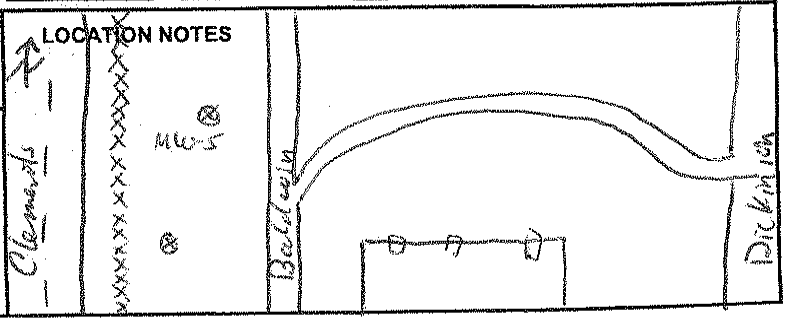
PURGE WATER CONTAINERIZED: YES (NO)

NOTES: * probe not operational

SIGNATURE: _____ 11/3/06

CHECKED BY: _____

LOCATION NOTES



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Regan & Dry Cleaners Group 2 Assess. | JOB NUMBER: 361206205 / 072

LOCATION ID: MW-6 | FIELD SAMPLE ID: ATMW0060601XX | EVENT NO.: 1

ACTIVITY: START 1300 END 1420 | SAMPLE TIME: 1356 | DATE: 4/7/06

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	13.53 feet	HISTORICAL WELL DEPTH (TOR)	n/a feet	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet
FINAL DEPTH TO WATER	13.82 feet	PID AMBIENT AIR	n/a ppmv	CASING / WELL DIFFERENCE	0.50 feet
SCREEN LENGTH	n/a feet	PRESSURE TO PUMP	n/a psi	WELL DIAMETER	4 inches
TOTAL VOL. PURGED	1.04 gallons	PID WELL MOUTH	n/a ppmv		
		REFILL SETTING	n/a	DISCHARGE SETTING	n/a

18.94

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	X		
CASING			X
LOCKED	X		
COLLAR			X

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1313	13.53								15.94	install pump
1330	13.82	100	15	2.17	6.9	3.82	*	-126	15.94	
1341	13.82	100	15	42.1	7.0	10	*	-127	15.94	
1344	13.82	100	15	33.2	7.0	10	*	-128	15.94	
1347	13.82	100	15	29.8	7.0	10	*	-129	15.94	
1350	13.82	100	15	30.3	7.0	10	*	-129	15.94	
1353	13.82	100	15	28.7	7.0	10	*	-128	15.94	collect sample
1356										

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[X] OTHER peristaltic

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[X]	/ /
[X] SVOCs	OLMO4.2	4 DEG. C	1 X 1 L AG	[X]	/
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER				[ ]	/ /

PURGE OBSERVATIONS: gasoline odor

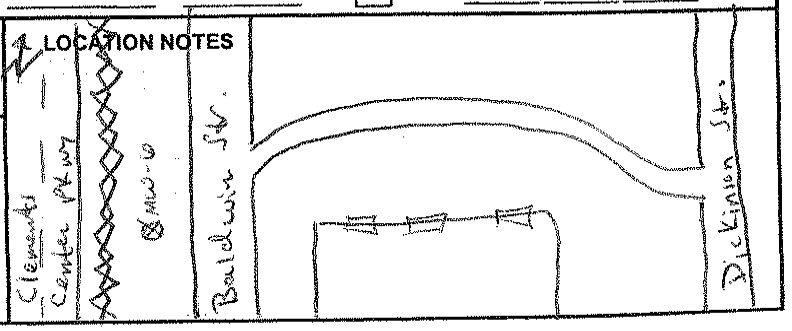
PURGE WATER CONTAINERIZED YES (NO)

NOTES: * turbidity meter not operational

SIGNATURE: 11/7/06

CHECKED BY:

LOCATION NOTES



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Region 8 Dry Cleaner Group Assoc. | JOB NUMBER: 361206205907.2

LOCATION ID: MW-7 | FIELD SAMPLE ID: ATM4200701601XX | EVENT NO.: 1

ACTIVITY: START 1103 END 1203 | SAMPLE TIME: 1151 | DATE: 11/7/06

19.23

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [✓] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	13.89 feet	HISTORICAL WELL DEPTH (TOR)	n/a feet	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet
FINAL DEPTH TO WATER	13.89 feet	PID AMBIENT AIR	n/a ppmv	CASING / WELL DIFFERENCE	3.30 - 0.30 = 3.0 feet
SCREEN LENGTH	n/a feet	PRESSURE TO PUMP	n/a psi	WELL DIAMETER	4 inches
TOTAL VOL. PURGED	3.28 gallons	REFILL SETTING	n/a	PID WELL MOUTH	n/a ppmv
				DISCHARGE SETTING	n/a

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	X		
CASING			X
LOCKED	X		
COLLAR			X

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1113	13.89								16.23	initiate pump
1118	13.89	350	14	1.40	7.1	16	60	-87	16.23	
1127	13.89	350	14	5.42	7.1	13	*	-86	16.23	
1134	13.89	350	14	4.40	7.2	12	*	-84	16.23	
1140	13.89	350	14	3.33	7.2	11	*	-85	16.23	
1143	13.89	350	14	2.95	7.2	11	*	-85	16.23	
1146	13.89	350	14	2.82	7.2	11	*	-84	16.23	
1149	13.89	350	14	2.84	7.2	11	*	-84	16.23	Collect samples

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[X] OTHER peristaltic
[ ] NON-DEDICATED MARSCHALK BLADDER

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[X]	/ /
[X] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[X]	/
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER				[ ]	/ /

PURGE OBSERVATIONS odor of weathered gasoline

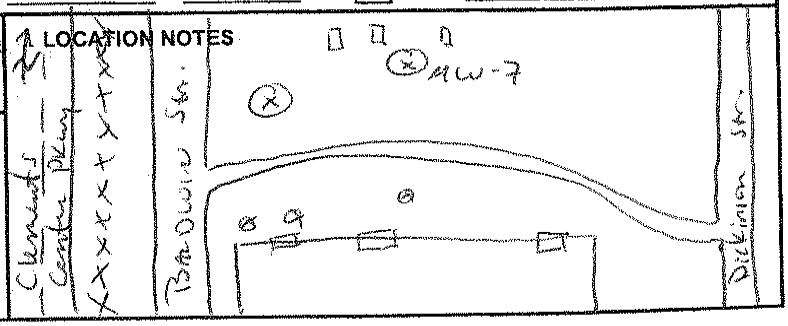
PURGE WATER CONTAINERIZED YES (NO)

NOTES: * turbidity probe not working

SIGNATURE: 11/7/06

CHECKED BY:

LOCATION NOTES



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Region 8 Dry Cleaners Group 2 Area | ATMW0080601XD | JOB NUMBER: 361262059/07.2

LOCATION ID: MW-8 | FIELD SAMPLE ID: ATMW0080160IXX | EVENT NO.:

ACTIVITY: START 0730 END 0852 | SAMPLE TIME: 0835 | DATE: 11/8/2006

19.02

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	13.85 feet	HISTORICAL WELL DEPTH (TOR)	n/a feet	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet
FINAL DEPTH TO WATER	13.85 feet	PID AMBIENT AIR	n/a ppmv	CASING / WELL DIFFERENCE	0.30 feet
SCREEN LENGTH	n/a feet	PRESSURE TO PUMP	n/a psi	PID WELL MOUTH	n/a ppmv
TOTAL VOL. PURGED	3.12 gallons	REFILL SETTING	n/a	DISCHARGE SETTING	n/a
				WELL DIAMETER	4 inches

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	X		
CASING			X
LOCKED	X		
COLLAR			X

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
0750	13.85								16.02	
0756	13.85	300	13	7.37	6.8	*	*	156	16.02	
0806	13.85	300	13	12.0	7.1	*	16	132	16.02	
0815	13.85	300	13	4.86	7.2	*	14	115	16.02	
0870	13.85	300	13	6.80	7.2	*	14	106	16.02	
0825	13.85	300	13	6.84	7.2	*	13	98	16.02	
0830	13.85	300	13	6.87	7.2	*	13	96	16.02	Collect sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[X] OTHER peristaltic

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER _____

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	___/___/___
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[X] x2	___/___/___
[X] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[X] x2	___/___
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	___/___
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	___
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	___
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	___
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	___
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	___
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	___/___/___
[ ] OTHER _____				[ ]	___/___/___

PURGE OBSERVATIONS

No odors, clear

PURGE WATER CONTAINERIZED YES (NO)

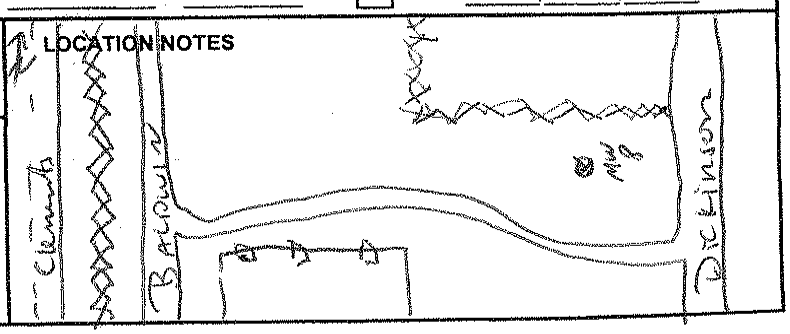
NOTES:

*

SIGNATURE: _____ 11/8/06

CHECKED BY: _____

LOCATION NOTES



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Dyckman Group 2 Associated | JOB NUMBER: 361206205 | 7.2

LOCATION ID: MW-9 | FIELD SAMPLE ID: ATMW009017 01XX | EVENT NO.: 1

ACTIVITY: START 1300 END 1415 | SAMPLE TIME: 1353 | DATE: 11/9/06

19.53

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	14.39 feet	HISTORICAL WELL DEPTH (TOR)	n/a feet	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet
FINAL DEPTH TO WATER	14.40 feet	PID AMBIENT AIR	n/a ppmv	CASING / WELL DIFFERENCE	0.30 feet
SCREEN LENGTH	n/a feet	PRESSURE TO PUMP	n/a psi	PID WELL MOUTH	n/a ppmv
TOTAL VOL. PURGED	1.9 gallons	REFILL SETTING	n/a	DISCHARGE SETTING	n/a
				WELL DIAMETER	2 inches

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	X		
CASING			X
LOCKED	X		
COLLAR			X

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1315	14.39								16.53	initiate pump
1321	14.40	325	15	0.364	6.7	<	116	140	16.53	
1331	14.40	325	15	0.633	6.8	<	74.5	109	16.53	
1336	14.40	325	15	0.681	6.8	<	67.6	101	16.53	
1340	14.40	325	15	0.729	6.8	<	91.2	85	16.53	
1345	14.40	325	15	0.732	6.9	<	91.2	85	16.53	
1348	14.40	325	15	0.737	6.9	<	95.6	81	16.53	
1351	14.40	325	15	0.733	6.9	<	94.8	80	16.53	collect sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[X] OTHER peristaltic
[ ] NON-DEDICATED MARSCHALK BLADDER

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[X]	/ /
[X] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[X]	/
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER				[ ]	/ /

PURGE OBSERVATIONS

no odor, clear

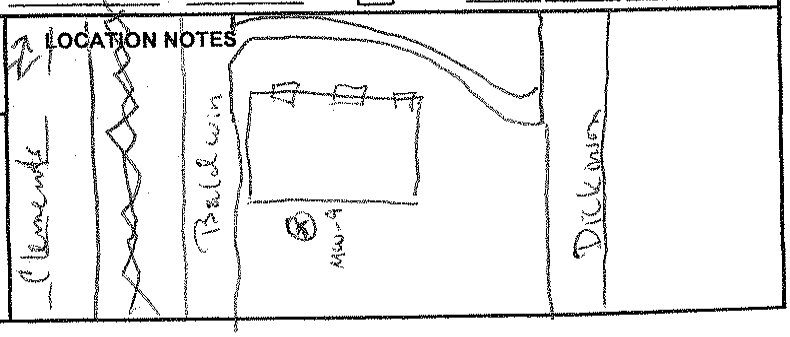
PURGE WATER CONTAINERIZED YES (NO)

NOTES:

SIGNATURE: 11/9/06

CHECKED BY:

LOCATION NOTES



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

3612062059/07.2

PROJECT: NYSDEC Region 8 Cleaners - Associated | JOB NUMBER: 3612062059/07.2

LOCATION ID: Diamond Cleaners mw-1 | FIELD SAMPLE ID: ATDCMW101801XX/XF | EVENT NO.: 1

ACTIVITY: START 16:30 END 17:15 | SAMPLE TIME: 17:15 | DATE: 10/31/06

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	11.76 feet	HISTORICAL WELL DEPTH (TOR)	24.5 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	/ feet
FINAL DEPTH TO WATER	11.76 feet	PID AMBIENT AIR	/ ppmv	CASING / WELL DIFFERENCE	/ feet
SCREEN LENGTH	10 feet	PRESSURE TO PUMP	\ psi	PID WELL MOUTH	/ ppmv	WELL DIAMETER	2 inches
TOTAL VOL. PURGED	~1.6 gallons	REFILL SETTING	\	DISCHARGE SETTING	/	

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓	✓	
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
16:45	11.76	400	15.2	1.46	7.0	4.80				
16:50	11.76	300	15.1	1.47	7.1	4.02				
16:55	11.76	300	15.1	1.47	7.1	3.50				
17:00	11.76	300	15.1	1.47	7.2	3.25				
17:07	11.76	175	15.1	1.47	7.2	2.95				
17:10		175	sample							
17:15	11.76	175	15.1	1.47	7.2	3.36				

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[X] OTHER peristaltic - Geopump

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER _____

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	5 X 40 ML	[X]	(3) XX / (2) XF
[ ] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER _____				[ ]	/ /

PURGE OBSERVATIONS

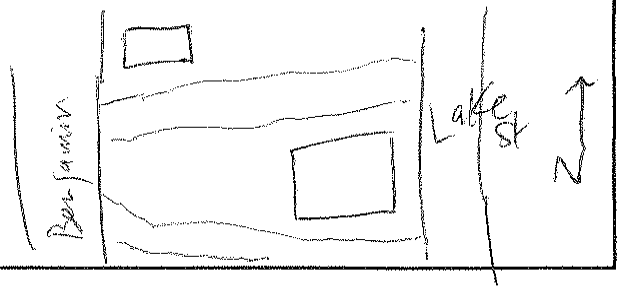
PURGE WATER CONTAINERIZED YES (NO) Clear

NOTES:

SIGNATURE: Joanne Smith

CHECKED BY: _____

LOCATION NOTES



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: NYSDEC Cleaners Group Associated — JOB NUMBER: 361206257.0.1.2

LOCATION ID: DCMW-2 — FIELD SAMPLE ID: ATDCMW2021012XX — EVENT NO.: 1

ACTIVITY: START 0825 END 0925 — SAMPLE TIME: 0918 — DATE: 11/10/06

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [x] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	12.12 feet	HISTORICAL WELL DEPTH (TOR)	n/a feet	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet
FINAL DEPTH TO WATER	12.14 feet	PID AMBIENT AIR	n/a ppmv	CASING / WELL DIFFERENCE	0.48 feet
SCREEN LENGTH	n/a feet	PRESSURE TO PUMP	n/a psi	PID WELL MOUTH	n/a ppmv	WELL DIAMETER	2 inches
TOTAL VOL. PURGED	3.6 gallons	REFILL SETTING	n/a	DISCHARGE SETTING	n/a

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	X		
CASING			X
LOCKED	X		
COLLAR			X

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
0839	12.12								21.15	initiate pump
0845	12.14	375	14	0.611	7.2	<	282	214	21.15	
0851	12.14	375	14	0.616	7.2	<	104	208	21.15	
0900	12.14	375	14	0.612	7.2	<	17	202	21.15	
0907	12.14	375	14	0.598	7.2	<	8.9	198	21.15	
0910	12.14	375	14	0.600	7.2	<	4.6	196	21.15	
0913	12.14	375	14	0.598	7.2	<	4.4	193	21.15	
0916	12.14	375	14	0.597	7.2	<	4.5	193	21.15	collect sample

24.15

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[x] OTHER peristaltic

TYPE OF TUBING

[x] HIGH DENSITY POLYETHYLENE
[ ] OTHER _____

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	___/___/___
[x] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[x]	___/___/___
[ ] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	___/___
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	___/___
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	___
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	___
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	___
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	___
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	___
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	___/___/___
[ ] OTHER _____	_____	_____	_____	[ ]	___/___/___

PURGE OBSERVATIONS

no odor

PURGE WATER CONTAINERIZED YES (NO)

NOTES:

SIGNATURE: _____ 11/10/06

CHECKED BY: _____

LOCATION NOTES

Diamond Cleaners
MW-2

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: NYSDEC Diamond Group Associated | JOB NUMBER: 36/20620 9/22
LOCATION ID: DCMW-3 | FIELD SAMPLE ID: ATDCMW3021 01XX | EVENT NO.: 1
ACTIVITY: START 0705 END 0815 | SAMPLE TIME: 0808 | DATE: 11/10/06

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	11.15 feet	HISTORICAL WELL DEPTH (TOR)	n/a feet	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet
FINAL DEPTH TO WATER	11.19 feet	PID AMBIENT AIR	n/a ppmv	CASING / WELL DIFFERENCE	0.5 feet
SCREEN LENGTH	n/a feet	PRESSURE TO PUMP	n/a psi	PID WELL MOUTH	n/a ppmv
TOTAL VOL. PURGED	3.4 gallons	REFILL SETTING	n/a	DISCHARGE SETTING	n/a
				WELL DIAMETER	2 inches

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	X		
CASING			X
LOCKED	X		
COLLAR			X

23.97

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
727	11.15								20.97	
0733	11.19	400	14	0.757	6.8	0.48	131	200	20.97	
0738	11.19	400	14	0.721	7.0	<	23.7	189	20.97	
0952	11.19	400	14	0.683	7.0	<	<	184	20.97	
0800	11.19	400	14	0.680	7.0	<	<	184	20.97	
0803	11.19	400	14	0.679	7.0	<	<	184	20.97	
0806	11.19	400	14	0.678	7.0	<	<	184	2097	Collect sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] DEDICATED MARSCHALK BLADDER
- [ ] NON-DEDICATED MARSCHALK BLADDER
- [X] OTHER peristaltic

TYPE OF TUBING
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	___/___/___
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[X]	___/___/___
[ ] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	___/___
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	___/___
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	___
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	___
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	___
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	___
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	___
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	___/___/___
[ ] OTHER _____				[ ]	___/___/___

PURGE OBSERVATIONS: no odor

PURGE WATER CONTAINERIZED: YES (NO)

NOTES:

SIGNATURE: _____ 11/10/06

CHECKED BY: _____

LOCATION NOTES

Diamond Cleaners
MW-3

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Dry Cleaners Group 2 Associated — JOB NUMBER: 361206.2059.0072

LOCATION ID: DCMW-4 — FIELD SAMPLE ID: ATDCMW4081 01XX — EVENT NO.: 1

ACTIVITY: START 1525 END 1628 — SAMPLE TIME: 1617 — DATE: 11/9/06

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	11.22 feet	HISTORICAL WELL DEPTH (TOR)	n/a feet	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet	CASING / WELL DIFFERENCE	0.3 feet
FINAL DEPTH TO WATER	11.55 feet	PID AMBIENT AIR	n/a ppmv			WELL DIAMETER	2 inches
SCREEN LENGTH	n/a feet	PRESSURE TO PUMP	n/a psi	PID WELL MOUTH	n/a ppmv		
TOTAL VOL. PURGED	1.7 gallons	REFILL SETTING	n/a	DISCHARGE SETTING	n/a		

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	X		
CASING			X
LOCKED	X		
COLLAR			X

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1537	11.22								18.02	initial pump
1542	11.56	175	16	0.571	7.2	<	140	164	18.02	
1548	11.55	175	16	0.590	7.2	1.40	147	162	18.02	
1555	11.55	175	16	0.590	7.2	6.63	151	158	18.02	
1600	11.55	175	16	0.597	7.2	7.54	158	157	18.02	
1605	11.55	175	16	0.660	7.2	8.04	155	155	18.02	
1608	11.55	175	16	0.661	7.2	8.08	160	153	18.02	
1611	11.55	175	16	0.667	7.2	8.06	162	153	18.02	
1615	11.55	175	16	0.679	7.2	8.41	159	152	18.02	collect sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[X] OTHER peristaltic
[ ] NON-DEDICATED MARSCHALK BLADDER

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER _____

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	___/___/___
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[X]	___/___/___
[X] SVOCs (2)	OLMO4.2	4 DEG. C	2 X 1 L AG	[X] (2)	___/___
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	___/___
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	___
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	___
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	___
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	___
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	___
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	___/___/___
[ ] OTHER _____				[ ]	___/___/___

PURGE OBSERVATIONS no odors

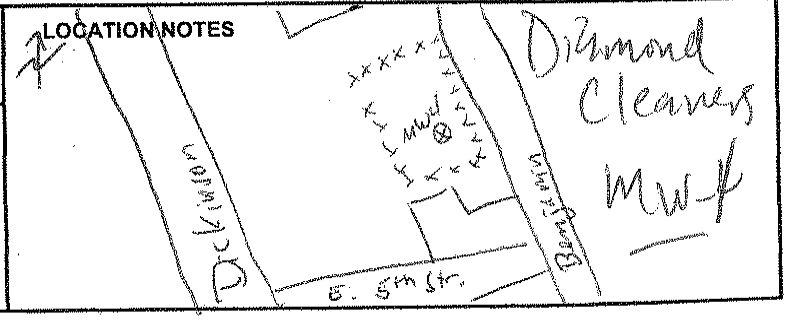
PURGE WATER CONTAINERIZED YES (NO)

NOTES:

SIGNATURE: _____ 11/9/06

CHECKED BY: _____

LOCATION NOTES



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: NYSDOT Cleaners Comp. Assistance | JOB NUMBER: 3612625 9/07.2

LOCATION ID: DCMW-5 | FIELD SAMPLE ID: ATDCMW5020 01XX | EVENT NO.: 1

ACTIVITY: START 0937 END 1105 | SAMPLE TIME: 1045 | DATE: 11/10/06

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER	11.18 feet	MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING	PROTECTIVE CASING STICKUP (FROM GROUND)	flush feet	CASING / WELL DIFFERENCE	0.42 feet
FINAL DEPTH TO WATER	11.32 feet	HISTORICAL WELL DEPTH (TOR)	n/a feet	PID AMBIENT AIR	n/a ppmv	WELL DIAMETER	2 inches
SCREEN LENGTH	n/a feet	PRESSURE TO PUMP	n/a psi	PID WELL MOUTH	n/a ppmv	WELL INTERGRITY:
TOTAL VOL. PURGED	4.1 gallons	REFILL SETTING	n/a	DISCHARGE SETTING	n/a	

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:	YES	NO	N/A
CAP	X		
CASING			X
LOCKED	X		
COLLAR			X

23.42

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
0957	11.18								20.42	initiate pump
1000	11.32	350	13	0.603	7.7	<	62	-133	20.42	
1017	11.32	350	13	0.618	7.7	<	2.5	-130	20.42	
1022	11.32	350	13	0.637	7.7	<	11	-127	20.42	
1027	11.32	350	13	0.651	7.6	<	6.3	-124	20.42	
1030	11.32	350	13	0.659	7.5	<	5.4	-122	20.42	
1033	11.32	350	13	0.661	7.5	<	4.7	-122	20.42	
1036	11.32	350	13	0.663	7.4	<	3.3	-118	20.42	
1039	11.32	350	13	0.670	7.4	<	3.2	-117	20.42	
1042	11.32	350	13	0.670	7.4	<	3.3	-117	20.42	Collect sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] DEDICATED MARSCHALK BLADDER
- [ ] NON-DEDICATED MARSCHALK BLADDER
- [X] OTHER peristaltic

TYPE OF TUBING
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[X]	/ /
[ ] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[ ] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[ ] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER _____				[ ]	/ /

PURGE OBSERVATIONS

gasoline odor

PURGE WATER CONTAINERIZED YES (NO)

NOTES:

SIGNATURE: _____ 11/10/06

CHECKED BY: _____

LOCATION NOTES

Diamond Cleaners
MW-5

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Region 5 D.C. - Group 2 - ASS scanned | SAMPLE NUMBER: ATDCW100150MK | STUDY AREA / AOC: NYSDEC
SITE ID: MW-TDCGW-10 | SITE TYPE: Diamond Cleaners | DATE: 11/10/06
ACTIVITY: START 0725 END 0830 | JOB NUMBER: 361206285971074 | FILE TYPE: —
Sample time: 0815 | WEATHER: 42°F, cloudy

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	~17' FT (TOR)	HISTORICAL WELL DEPTH	— FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	— FT	PROTECTIVE CASING / WELL DIFFERENCE	— FT
DEPTH TO WATER	11.82 FT (TOR)	SCREEN LENGTH	10' FT	WELL DIAMETER	1 IN	WELL MATERIAL	Sch 40 PVC
HEIGHT OF WATER COLUMN	— FT	x — GAL/FT (— INCH WELL) =	— GAL/VOL				
PID AMBIENT AIR	<0.1 PPM	PID WELL MOUTH	<0.1 PPM	TOTAL VOLUME PURGED	1.8 GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED		✓	

PURGE DATA

0739 - Pump on

TIME:	0750	0755	0800	0805	0810	0815
PURGE VOLUME (gallons)	~0.40	0.55	0.61	0.77	0.93	1.8
PURGE RATE (gpm) (ml/min)	125	125	125	125	125	125
TEMPERATURE (degreesC)	12.1	12.2	12.4	12.6	12.7	
pH (units)	7.3	7.1	7.0	7.1	7.1	
~~TURBIDITY (ntu)~~ DO (mg/L)	10.7	12.2	12.4	12.6	12.7	12
SPEC. COND. (~~umhos~~/cm)	0.347	0.347	0.347	0.347	0.346	
TURBIDITY (ntu) ~~DO~~	370	>1000	>1000	>1000	>1000	
REDOX POTENTIAL (+/- mv)	N/A	N/A	N/A	N/A	N/A	0

SAMPLE OBSERVATIONS:
- ✓ CLEAR
- ☐ COLORED _____
- ✓ CLOUDY
- ☐ TURBID _____
- ☐ ODOR _____
- ✓ OTHER (see notes)

0820 - Pump on

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING		DECON FLUIDS USED		WATER LEVEL EQUIPMENT USED	
✓	✓	PERISTALTIC PUMP	☐	ALKINOX	✓	ELECTRIC COND. PROBE
	☐	SUBMERSIBLE PUMP	☐	LIQUINOX	☐	FLOAT ACTIVATED
✓	✓	BLADDER PUMP	☐	POTABLE WATER	☐	KECK INTERFACE PROBE
	☐	PVC/SILICON TUBING	✓	DEIONIZED WATER	☐	_____
	☐	TEFLON/SILICON TUBING	☐	STEAM CLEANING		
	☐	BAILER	☐	NITRIC ACID		
	☐	IN LINE FILTER	☐	_____		
	_____					

NUMBER OF FILTERS USED: 0

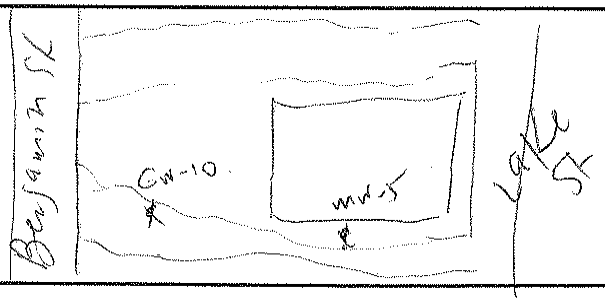
ANALYTICAL PARAMETERS

	METHOD NUMBER	FRACTION CODE	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
✓ VOC	OLM04.2		HCL / 4 DEG. C	3 X 40 ML	✓	/ /
✓ VOC	onsite VOC		~~HCL~~ / 4 DEG. C	~~3~~ X 40 ML	✓	/ /
☐ SVOC			4 DEG. C	2 X 1 L AG	☐	/ /
☐ PEST / PCBs			4 DEG. C	2 X 1 L AG	☐	/ /
☐ HERBICIDES			4 DEG. C	2 X 1 L AG	☐	/ /
☐ PAL INORGANICS			HNO3 to pH <2	1 x 1 L P	☐	/ /
☐ SULFATE NITRATE/NITRITE	USEPA 300		4 DEG. C	1 X 50 ML P	☐	/ /
☐ SULFIDE	USEPA 376.1		NAOH to pH >9	1 X 500 ML P	☐	/ /
☐ IRON ONLY			HNO3 to pH <2	1 x 1 L P-Cube	☐	/ /
☐ FERROUS IRON	FIELD METHOD		--	--	☐	/ /
☐ TOTAL PHOSPHORUS	USEPA-365.4		H2SO4 to pH <2	1 X 50 ML P	☐	/ /
☐ MANGANESE ONLY			HNO3 to pH <2	1 X 1 L P	☐	/ /
☐ AMMONIA NIROGEN	USEPA-350.1		H2SO4 to pH <2	1 X 400 ML P	☐	/ /
☐ TOC	USEPA-415.1				☐	
☐ TSS ONLY	USEPA-160.2		4 DEG. C	1 X 1 L P	☐	/ /
☐ OTHER					☐	/ /

NOTES: Turbidity readings on 11-10; not reliable.

SIGNATURE: _____

RECEIVED BY: _____



GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGENS Dry Cleaners - Group II
Project Number: 361206 2059 | 0.7.2
Site: Associated - Diamond.
Date: 11/16/06
Time: Start: 1630 End: 1705
Sample Location ID: AT SGGW 2 0 1 5 0 2 X X
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

DGW-2 @ 15' bgs
Microwell

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked?: ___ Yes ___
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes / No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
—	—	Submersible Pump	
—	—	Bailer	
✓	✓	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
—	—	Press/Vac Filter	
—	—		

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ___ Turbid ✓ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~5 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	16				
pH, units	Const 7.0				
Specific Conductivity (µmhos/cm)	0.410				
Turbidity (NTUS)	>400				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	9.8				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3,4°C	1x1 liter P	
___ Cyanide	___	NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4,4°C	2x1 liter AG	
___ TOC	___	H_2SO_4,4°C	1x1 liter P	

Notes: Green PVC well, 1"
Purge water: cloudy.

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry Cleaners - Group II
Project Number: 361206205910702
Site: Associated Textiles
Date: 11/16/06
Time: Start: 1215 End: 1420
Sample Location ID: AT6W001020012X (FD)
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-1 @ 20 ft bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other _____	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

Purging (✓ If Used For)	Sampling (✓ If Used For)		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air 0.1 ppm Well Mouth 0.1 ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ___ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ 11.0 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	14.0				
pH, units	6.9				
Specific Conductivity (µmhos/cm)	0.456				
Turbidity (NTUS)	71696				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	15.1				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3,4°C	1x1 liter P	
___ Cyanide	___	NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4,4°C	2x1 liter AG	
___ TOC	___	H_2SO_4,4°C	1x1 liter P	
✓ Grab WA	✓	4°C	2 x 40	1415

Notes: Screen: 16-22
Purge water: Discharged to ground

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGENT DRY CLEANERS - GROUP II
Project Number: 36120620597.07.2
Site: Associated Textile
Date: 11/26/96
Time: Start: 1325 End: 1345
Sample Location ID: AT6WD101029011X
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-1 @ 29' bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure; Concrete Collar Intact; Other _____ — Yes / No

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SPLS	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air 10.1 ppm Well Mouth 5.1 ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data @ 40 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	15.1				
pH, units	7.10				
Specific Conductivity (µmhos/cm)	0.685				
Turbidity (NTUS)					
Oxidation - Reduction, +/- mv	179.0				
Dissolved Oxygen, ppm					

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 x 40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3,4°C	1x1 liter P	
___ Cyanide		NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4,4°C	2x1 liter AG	
___ TOC		H_2SO_4,4°C	1x1 liter P	
✓ FIELD DUP	✓	4°C	2 x 40 ml	1400

Notes: SCREEN: 28' to 30'
Purge water: grey silty

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 361206205981072
Site: Associated Technical
Date: 4/10/06
Time: Start: 0900 End: 0945
Sample Location ID: ATGW020181XX
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-2 @ 18' bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked? ___ Yes ___ No (Geoprobe)
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ ___

Height of Water Column _____ Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure; Concrete Collar Intact; Other _____

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
—	—	Submersible Pump	
✓	✓	Bailer	
—	—	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
✓	✓	Press/Vac Filter	SP-15

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	11.8				
pH, units (Cons)	7.46				
Specific Conductivity (µmhos/cm)	2.96				
Turbidity (NTUS)	1.000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	11.0				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 x 40 ml	0940
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3, 4°C	1x1 liter P	
___ Cyanide	___	NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	
___ TOC	___	H_2SO_4, 4°C	1x1 liter P	
✓ Onsite VOA	✓	4C	2 x 40ml	

Notes: Screen: 10 to 20
Purge water: Brown, silty

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry Cleaners - Group II
Project Number: 361206205910702
Site: Associated Textiles
Date: 11/01/06
Time: Start: 1015 End: 1105
Sample Location ID: ATGW03D1801KL
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-3 @ 18' bgs
Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing
Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes
Geoprobe
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer _____
Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged
Well Integrity: Prot. Casing Secure ___ Yes ___ No; Concrete Collar Intact ___ Yes ___ No; Other _____ ___ Yes ___ No

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SD-15	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air 0 ppm Well Mouth 0 ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~3 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	13.7				
pH, units	8.10				
Specific Conductivity (µmhos/cm)	0.629				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv	—				
Dissolved Oxygen, ppm	12.6				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	1105
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	
✓ onsite VOC	✓	4°C	2 x low	

Notes: Screen: 16 to 20
Purge water: Brown Silty

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II Site: Associated Textile
Project Number: 361206 2059 | 07.2 Date: 11/08/06
Time: Start: 0850 End: 1050
Sample Location ID: ATGW0040 | 7 | 1 | X | X Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

GW-4 @ 17' bgs

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ GeoProbe
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other _____	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
—	—	Submersible Pump	
—	—	Bailer	
✓	✓	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
✓	✓	Press/Vac Filter	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	14				
pH, units	Cust 5.9				
Specific Conductivity (µmhos/cm)	0.619				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv	—				
Dissolved Oxygen, ppm	8.8				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
✓ SVOCs	✓	4°C	2x1 liter AG	
___ Metals	___	HNO_3, 4°C	1x1 liter P	
___ Cyanide	___	NaOH, 4°C	1x500mL P	
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	
✓ TOC onsite lab	✓	H_2SO_4, 4°C	1x1 liter P	

Notes: Screen: 15' to 19' 4" 2x40ml
Purge water: Left Brown
* collected from a PVC screen

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 361206205981072
Sample Location ID: ATGW0150110 1XX

Site: Associated Textile
Date: 11/07/2006
Time: Start: 1610 End: 1635
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-5 @ 17' bgs

___ Top of Well ___ Top of Protective Casing

Well Riser Stick-up _____ Ft. (from ground)

Protective _____ Ft. Casing/Well Difference

Protective _____ Ft. Casing

Depth to Water _____ Ft.

Well Material: ___ PVC ___ SS _____

Well Locked?: ___ Yes ___ GeoProbe

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____

Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure Yes ___ No ___; Concrete Collar Intact Yes ___ No ___; Other _____ Yes ___ No ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
✓	✓	Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air ✓ ppm Well Mouth ✓ ppm

Purge Data Collected ✓ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~15 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	15				
pH, units	8.1				
Specific Conductivity (umhos/cm)	0.531 (ms/)				
Turbidity (NTUS)	71000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	9.5				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3,4°C	1x1 liter P	
___ Cyanide		NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4,4°C	2x1 liter AG	
___ TOC		H_2SO_4,4°C	1x1 liter P	
✓ Onsite VOC	✓	4°C	2x40ml	

Notes: SCREEN: 15 to 19

Purge Water: Untreated

1630

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry Cleaners - Group II
Project Number: 361206205910.72
Sample Location ID: AT GW05 0129 01 KK
Site: Associated Textile
Date: 11/8/2006
Time: Start: 1555 End: 1620
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

GW-5 @ 20ft bgs

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___ _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ __ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter	
✓	✓	SP-K	

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	19				
pH, units	5.0				
Specific Conductivity (µmhos/cm)	Cust 2.10+4				
Turbidity (NTUS)	Turb				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	9.8				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mL P	1695
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	
✓ DUP-1 VOC	✓	4°C	2 x 40 ml	

Notes: Green: 27 to 29

Purge water: DK grey TDK drive

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS DRY CLEANERS - GROUP II
Project Number: 3612062059/0.7.2
Sample Location ID: ATGW0060170 1XX

Site: Associated textile
Date: 11/07/2006
Time: Start: 1505 End: 1522
Signature of Sampler: [signature]

Water Level/Well Data

Well Depth ____ Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up ____ Ft. (from ground)
Protective ____ Ft. Casing/Well Difference
Protective ____ Ft. Casing

GW-6 @ 17 ft bgs

Depth to Water ____ Ft.
Well Material: ___ PVC ___ SS
Well Locked?: ___ Yes ___ No — GEOPROBE
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer

Height of Water Column ____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__in.) = ____ Gal/Vol. ____ Total Gal Purged

Well integrity:	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other		

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For)

Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter SP-15	

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ___ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ 1.5 Gal.	@ Gal.	@ Gal.	@ Gal.	@ Gal.
Temperature, Deg. C	12				
pH, units (Cons/)	8.0				
Specific Conductivity (µmhos/cm)	0.572				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv	—				
Dissolved Oxygen, ppm	11.0				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle /Lot Nos.
✓ VOCs	✓	4°C	3 x40 ml	
SVOCs		4°C	2x1 liter AG	
Metals		HNO_3, 4°C	1x1 liter P	@ 1520
Cyanide		NaOH, 4°C	1x500mLP	
Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H_2SO_4, 4°C	2x1 liter AG	
TOC		H_2SO_4, 4°C	1x1 liter P	
✓ Onsite VOA	✓	4°C	2 x40ml	

Notes: Screen: 15 to 19'
Purge water: left on site

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS DRY CLEANERS - GROUP II Site: Associated Textiles

Project Number: 361206205910.7 XD Date: 11/07/2006

Time: Start: 1445 End: 1505

Sample Location ID: ATCW0106U2Y01 XX Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical

___ Top of Well ___ Top of Protective Casing

Well Riser Stick-up _____ Ft. (from ground)

Protective _____ Ft. Casing/Well Difference

Protective _____ Ft. Casing

GW-6 @ 28 ft bgs

Depth to Water _____ Ft.

Well Material: ___ PVC ___ SS _____

Well Locked?: ___ Yes ___ No Geoprobe

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____

Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___ in.) = _____ Gal/Vol. / _____ Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other _____	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
	✓	Peristaltic Pump	
		Submersible Pump	
✓	✓	Bailer	
✓		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
	✓	Press/Vac Filter	
✓	✓	SPLS	

Decontamination Fluids Used: (✓ All That Apply at Location)

___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm Purge Data Collected ✓ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~3 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	12			✓		
pH, units	7.9					
Specific Conductivity (µmhos/cm)	0.637					
Turbidity (NTUS)	>1000					
Oxidation - Reduction, +/- mv						
Dissolved Oxygen, ppm	11.7					

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3, 4°C	1x1 liter P	
___ Cyanide	___	NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	
___ TOC	___	H_2SO_4, 4°C	1x1 liter P	
✓ Onsite VOA	✓	4°C	2 14 ml	

Notes: SCREEN: 27 to 29

Purge water: LFTGW

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGENS Dry Cleaners - Group II Site: Associated Textiles
Project Number: 36120620591072 Date: 11/07/2006
Time: Start: 1345 End: 1700
Sample Location ID: ATGW00701701XX Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical ___ Top of Well ___ Top of Protective Casing Well Riser Stick-up _____ Ft. (from ground) Protective _____ Ft. Casing/Well Difference

GW-7@ 17 ft bgs

Protective _____ Ft. Casing

Depth to Water _____ Ft. Well Material: ___ PVC ___ SS _____ Well Locked?: ___ Yes ___ No Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch _____ Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer _____

GeoProbe

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure; Concrete Collar Intact; Other _____

	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other		

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
	✓	Peristaltic Pump	
		Submersible Pump	
✓	✓	Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter	SP.15

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air _____ ppm Well Mouth _____ ppm Purge Data Collected ✓ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2.0 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	13				
pH, units	8.20				
Specific Conductivity (µmhos/cm)	8.607 Cmsl				
Turbidity (NTUS)	71.00				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	10.0				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3,4°C	1x1 liter P	
___ Cyanide		NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4,4°C	2x1 liter AG	
___ TOC		H_2SO_4,4°C	1x1 liter P	
✓ Duplicate VOA	✓	4°C	2 x 40 ml	

1755

Notes: SCREEN: 15 to 19

Purge Water: DRUM

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGION 8 Dry Cleaners - Group II
Project Number: 361706 2059 / 0.72
Sample Location ID: ATGW0070280 1KK

Site: Associated Textile
Date: 11/07/2006
Time: Start: 1330 End: 1345
Signature of Sampler: [signature]

Water Level/Well Data

Well Depth ______ Ft. ___ Measured ___ Historical ___ Top of Well ___ Top of Protective Casing

Well Riser Stick-up ______ Ft. (from ground)

Protective ______ Ft. Casing/Well Difference

GW-7 @ 28 ft bgs

Protective ______ Ft. Casing

Depth to Water ______ Ft.

Well Material: ___ PVC ___ SS

Well Locked?: ___ Yes ___ No

Geoprobe

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch

Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer

Height of Water Column ______ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = ______ Gal/Vol. ______ Total Gal Purged

Well Integrity:	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other		

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For)

Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used:

(✓ All That Apply at Location)

- ___ Methanol (100%)
- ___ 25% Methanol/75% ASTM Type II water
- ✓ Deionized Water
- ✓ Liquinox Solution
- ___ Hexane
- ___ HNO_3/D.I. Water Solution
- ___ Potable Water
- ___ None

Field Analysis Data

PID: Ambient Air ______ ppm Well Mouth ______ ppm

Purge Data Collected ___ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~1.6 Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	8.2 / 17				
pH, units	8.2				
Specific Conductivity (µmhos/cm)	0.619				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	9.5				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
SVOCs		4°C	2x1 liter AG	
Metals		HNO_3,4°C	1x1 liter P	
Cyanide		NaOH,4°C	1x500mLP	@ 1340
Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H_2SO_4,4°C	2x1 liter AG	
TOC		H_2SO_4,4°C	1x1 liter P	
✓ onsite lab	✓	4°C	2x40ml	

Notes: SCREEN: 28 to 30

Purge water: DK olive, clearing

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 361206205910.72
Site: Associated Tanker
Date: 11/6/06
Time: Start: 1530 End: 1550
Sample Location ID: ATGW018D12D01XX
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-8 @ 20 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked?: ___ Yes ___ No
Geoprobe
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure Yes ___ No ___; Concrete Collar Intact ___ ___; Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
—	—	Submersible Pump	
—	✓	Bailer	
✓	✓	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
—	—	Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used: (✓ All That Apply at Location)

___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ✓ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	14.0				
pH, units	6.4				
Specific Conductivity (µmhos/cm)	0.731 mS				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv	—				
Dissolved Oxygen, ppm	17.7				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3, 4°C	1x1 liter P	
___ Cyanide	___	NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	
___ TOC	___	H_2SO_4, 4°C	1x1 liter P	
✓ Composite	✓	4°C	2 x 40 ml	1545

Notes: Screen: 18' to 22'
Purge water: Drive, Sump

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS DRY CLEANERS - GROUP II
Project Number: 361206205981072
Site: Associated Textiles
Date: 11/06/06
Time: Start: 1515 End: 1530
Sample Location ID: ATGW00802701IXX
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

GW-8@ 27 ft. bgs

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other _____	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
—	—	Submersible Pump	
✓	✓	Bailer	
—	—	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
✓	✓	Press/Vac Filter	Millslot

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air 1.1 ppm Well Mouth 1.1 ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data @ 21.1 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	13.7				
pH, units	7.0				
Specific Conductivity (µmhos/cm)	0.615 (mS)				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	17.0				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs		4°C	3 2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3,4°C	1x1 liter P	
___ Cyanide		NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4,4°C	2x1 liter AG	
___ TOC		H_2SO_4,4°C	1x1 liter P	
✓ Onsite GC	✓	4°C	2 Vials	

Notes: Screen: 28 to 26

Purge water: grey silty

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry Cleaners - Group II
Project Number: 361206 2059 | 07.2
Sample Location ID: AT GW 09 01 70 11 X X

Site: Associated Textile
Date: 11/07/2006
Time: Start: 1235 End: 1250
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-9 @ 17ft bgs

___ Top of Well ___ Top of Protective Casing

Well Riser Stick-up _____ Ft. (from ground)

Protective _____ Ft. Casing/Well Difference

Protective _____ Ft. Casing

Depth to Water _____ Ft.

Well Material: ___ PVC ___ SS _____

Well Locked? ___ Yes ___ No GeoProbe

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch _____

Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes / No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
	✓	Submersible Pump	
✓	✓	Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter	SP-11

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm

Purge Data Collected ✓ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	14				
pH, units	7.7				
Specific Conductivity (umhos/cm)	0.550 cm/s				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	1.23				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
✓ SVOCs	✓	4°C	1 2x1 liter AG	
___ Metals		HNO_3,4°C	1x1 liter P	
___ Cyanide		NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4,4°C	2x1 liter AG	
___ TOC		H_2SO_4,4°C	1x1 liter P	
✓ Onsite lab	✓	4°C	2 4oz vial	

Notes: Green: 15 to 19

Purge water: Lt Brown, fine sandy

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 36120620598/0702
Sample Location ID: ATGW090218011XX
Site: Associated Textiles
Date: 11/07/2006
Time: Start: 1220 End: 1235
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-9 @ 28 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No
Geoprobe
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure Yes ___ No ___; Concrete Collar Intact Yes ___ No ___; Other _____ Yes ___ No ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
—	✓	Submersible Pump	
✓	✓	Bailer	
✓	✓	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
✓	✓	Press/Vac Filter	
✓	✓	Sp. 5	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~10 Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	14				
pH, units	7 (mS)				
Specific Conductivity (µmhos/cm)	0.634				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	12.0				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 x 40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3, 4°C	1x1 liter P	
___ Cyanide	___	NaOH, 4°C	1x500mLP	1230
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	
___ TOC	___	H_2SO_4, 4°C	1x1 liter P	
✓ Volatile VOA	✓	4°C	2 x 40ml	

Notes: Screen: 29 to 27
Purge water: DK Drive

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

Test Boring Log

Project: REGION 8 D.C. - GROUP II	Boring/Well No.: SB/GW-010	Project No.: 361206215910..2	
Client: NYSDEC	Site: Associated Textiles	Sheet No.: 1 of 1	
Logged By: B. Shaw	Ground Elevation	Start Date: 11/06/2006	Finish Date: 11/06/2006
Drilling Contractor: Geologic, NY	Driller's Name: Joe Mensel	Rig Type: 66 DT.	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV)	Casing Size: 1 1/2	Auger Size: 2-1
Soil Drilled: ✓	Rock Drilled:	Total Depth: 30'	Depth to Groundwater/Date	Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests
1						0-0.5 Brown silt/organic loam & roots			0.1		
2	S1 1.2/4.0					0.5-2.5 olive to black silty sand & gravel, damp, loose	Fill				
3						2.5-3.5 Black Ash, Coal Slag - Fill					
4						3.5-4 reddish/orange Brown Sandy silt, gravel, wet/moist MP, WC	SM				
5	S2 0.6/4.0					reddish orange brown Sandy clay & gravel, wet/moist WC, mstiff, MP/HP	SC		0.1		
6											
7											
8						8 - cobble					
9						~8.2 to 10 olive Sandy clay fines to coarse Sand, HP, moist PG	CL/SC		0.1		
10	S3 1.3/4.0					10-12 Stratified black to orange Clay w some fine Sands, wet/moist HP, Mstiff. HP	CL				
11											
12						12-13 Same as 10-12, but soft & saturated/wet			0.1		
13											
14	S4 0.7/4.0					13-15.5 Same as 12-13 but orange brown to brownish orange in color	CL				
15						15.5 to 16 olive v. soft clay w/ some sand PG					
16											

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGION 8 Dry CLEANERS - GROUP II
Project Number: 36170620591/07.2
Sample Location ID: ATGW0100220 1XX

Site: Associated Textiles
Date: 11/06/06
Time: Start: 1650 End: 1705
Signature of Sampler: [signature]

Water Level/Well Data

Well Depth ____ Ft. ___ Measured ___ Historical ___ Top of Well ___ Top of Protective Casing

Well Riser Stick-up ____ Ft. (from ground)

Protective ____ Ft. Casing/Well Difference

GW-10 @ 22 ft. bgs

Protective ____ Ft. Casing

Depth to Water ____ Ft.

Well Material: ___ PVC ___ SS

Well Locked?: ___ Yes

Geoprobe

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch

Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer

Height of Water Column ____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = ____ Gal/Vol. ____ Total Gal Purged

Well Integrity:	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other		

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For)

Purging	Sampling	Equipment	Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used:

(✓ All That Apply at Location)

- ___ Methanol (100%)
- ___ 25% Methanol/75% ASTM Type II water
- ✓ Deionized Water
- ✓ Liquinox Solution
- ___ Hexane
- ___ HNO_3/D.I. Water Solution
- ___ Potable Water
- ___ None

Field Analysis Data

PID: Ambient Air — ppm Well Mouth — ppm

Purge Data Collected ___ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~1.5 Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	13.9				
pH, units	6.7				
Specific Conductivity (~~µmhos/cm~~ ms/cm)	0.597				
Turbidity (NTUS)	7,000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	16.6				

Sample Collection Requirements
(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	@ 1700
SVOCs		4°C	2x1 liter AG	
Metals		HNO_3, 4°C	1x1 liter P	
Cyanide		NaOH, 4°C	1x500mLP	
Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H_2SO_4, 4°C	2x1 liter AG	
TOC		H_2SO_4, 4°C	1x1 liter P	
✓ onsite VOA	✓	4°C	2x40	

Notes: Screen: 20 to 24'
Purge water: olive

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 361206205910702
Site: Associated Textile
Date: 11/06/06
Time: Start: 1640 End: 1650
Sample Location ID: ATGW01002901XX
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-10 @ 29ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked?: ___ Yes ___ No (Stopped)
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes / No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~1.0 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	64.3				
pH, units (1 unit)	6.9				
Specific Conductivity (µmhos/cm)	0.649				
Turbidity (NTUS)	71000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	15.0				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 x 40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	
✓ Duplicate	✓	4C	2x40.	

Notes: SCREEN: 10 to 28'
Purge water: Lt Brown

1645

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 361206205981072
Site: Associated Textiles
Date: 11/07/2006
Time: Start: 1130 End: 1145
Sample Location ID: ATGW01107011XX
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

GW-11 @ 17 ft bgs

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked?: ___ Yes ___ No
Geoprobe
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure; Concrete Collar Intact; Other _____

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter	SP-15

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~1.5 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	14				
pH, units	Cust				
Specific Conductivity (µmhos/cm)	5.487				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	11.4				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 x 40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mLP	1140
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	
✓ Onsite VOA	✓	4°C	2 x 40 ml	

Notes: SCREEN: 15 to 19
Purge water: DRUM

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGENT DRY CLEANERS - GROUP II
Project Number: 361206205910.22
Sample Location ID: AT6MW01102861XX

Site: Associated Testing
Date: 11/6/96
Time: Start: 1115 End: 1130
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-11 @ 28 ft. bgs

___ Top of Well ___ Top of Protective Casing

Well Riser Stick-up _____ Ft. (from ground)

Protective _____ Ft. Casing/Well Difference

Protective _____ Ft. Casing

Depth to Water _____ Ft.

Well Material: ___ PVC ___ SS ___ _____

Well Locked?: ___ Yes ___ No
Geoprobe

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____

Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ __ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other _____	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
✓	✓	Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm

Purge Data Collected ✓ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Colored ___ Clear ___ Odor ___ Cloudy

Purge Data	@ ~1.5 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	13				
pH, units	7.16				
Specific Conductivity (µmhos/cm)	0.681				
Turbidity (NTUS)	5,140				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	10.8				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	___	4°C	3 x 40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3, 4°C	1x1 liter P	
___ Cyanide	___	NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	
___ TOC	___	H_2SO_4, 4°C	1x1 liter P	
✓ OWER VOA	✓	4°C	2 x 40 ml	

Notes: SHEEN: 29 to 27 4'C
Purge water: DK drive
sheen in water

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 3617206205971072
Site: Associated Textile
Date: 11/27/00
Time: Start: 0815 End: 0835
Sample Location ID: ATTGW01301-0111
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-13 @ 17 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked?: ___ Yes ___ No
Geoprobe
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure Yes ___ No ___; Concrete Collar Intact Yes ___ No ___; Other _____ Yes ___ No ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
✓	✓	Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter	

Millipore

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ____ ppm Well Mouth ____ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~ Gal.	@ Gal.	@ Gal.	@ Gal.	@ Gal.
Temperature, Deg. C	14				
pH, units	6.7				
Specific Conductivity (umhos/cm)	0.612				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	10-3				

Cmsl

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 x 40 ml	
✓ SVOCs	✓	4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	
✓ GRO/BTEX - on site	✓	HCl, 4°C	2 x 40 ml	

Notes: SCREEN: 15 to 19
Purge water: DK Brown

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGION 8 DRY CLEANERS - GROUP II
Project Number: 36120620591/07.2
Sample Location ID: ATGW01302301XX

Site: Associated Textile
Date: 11/07/06
Time: Start: 0755 End: 0815
Signature of Sampler: [signature]

Water Level/Well Data

Well Depth ____ Ft. ___ Measured ___ Historical ___ Top of Well ___ Top of Protective Casing

Well Riser Stick-up ____ Ft. (from ground)

Protective ____ Ft. Casing/Well Difference

Protective ____ Ft. Casing

GW-13@23ft bgs

Depth to Water ____ Ft.

Well Material: ___ PVC ___ SS

Well Locked?: ___ Yes ___ No

Geoprobe

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch

Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer

Height of Water Column ____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = [____ Gal/Vol. ____ Total Gal Purged]

Well Integrity:	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other		

Equipment Documentation

Purging/Sampling Equipment Used:

Purging (✓ If Used For)	Sampling	Equipment	Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	Millslot	

Decontamination Fluids Used:

(✓ All That Apply at Location)
- ___ Methanol (100%)
- ___ 25% Methanol/75% ASTM Type II water
- ✓ Deionized Water
- ✓ Liquinox Solution
- ___ Hexane
- ___ HNO_3/D.I. Water Solution
- ___ Potable Water
- ___ None

Field Analysis Data

PID: Ambient Air ____ ppm Well Mouth ____ ppm

Purge Data Collected ___ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Clear ✓ Cloudy ___ Colored ___ Odor

Purge Data	@ 22 Gal.	@ Gal.	@ Gal.	@ Gal.	@ Gal.
Temperature, Deg. C	13				
pH, units	5.5				
Specific Conductivity (µmhos/cm) (ms)	1.0				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv	—				
Dissolved Oxygen, ppm	10.5				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle /Lot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	@ 0810
SVOCs		4°C	2x1 liter AG	
Metals		HNO_3,4°C	1x1 liter P	
Cyanide		NaOH,4°C	1x500mLP	
Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H_2SO_4,4°C	2x1 liter AG	
TOC		H_2SO_4,4°C	1x1 liter P	
✓ Onsite	✓	4°C	2x40ml	

Notes: SCREEN: 22 to 24'
Purge water: Cloudy
Slight chemical odor

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGENS Dry Cleaners - Group II
Project Number: 361206205910.72
Sample Location ID: ATGW01901601XX
Site: Associated Textiles
Date: 11/07/96
Time: Start: 1030 End: 1045
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-14 @ 16 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes GeoProbe
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
	✓	Bailer	
✓		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ✓ ppm Well Mouth ✓ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~1 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	14				
pH, units	7.3				
Specific Conductivity (µmhos/cm)	Cond. 0.758				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	12.3				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 x 40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mL P	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
✓ TOC	✓	H_2SO_4, 4°C	1x1 liter P	
✓ one filtered		4°C	2 x 40 ml	

1045

Notes: SCREEN: 12 to 18
Purge Water: V. Silty/Dk Olive

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 3612062059/0.7.2
Sample Location ID: A|T|G|W|0|1|4|0|2|9|0|1|X|X

Site: Associated Textile
Date: 11/07/2006
Time: Start: 1015 End: 1030
Signature of Sampler: [signature]

Water Level/Well Data

Well Depth ____ Ft. ___ Measured ___ Historical ___ Top of Well ___ Top of Protective Casing

Well Riser Stick-up ____ Ft. (from ground)

Protective ____ Ft. Casing/Well Difference

Protective ____ Ft. Casing

GW-14@ 29 ft. bgs

Depth to Water ____ Ft.

Well Material: ___ PVC ___ SS

Well Locked?: ___ Yes ___ No

GEOPROBE

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch

Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer

Height of Water Column ____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = ____ Gal/Vol. ____ Total Gal Purged

Well Integrity:	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other		

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For)

Purging	Sampling	Equipment	Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used:

(✓ All That Apply at Location)

- ___ Methanol (100%)
- ___ 25% Methanol/75% ASTM Type II water
- ✓ Deionized Water
- ✓ Liquinox Solution
- ___ Hexane
- ___ HNO_3/D.I. Water Solution
- ___ Potable Water
- ___ None

Field Analysis Data

PID: Ambient Air / ppm Well Mouth / ppm

Purge Data Collected ___ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2 Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	14				
pH, units	7.4				
Specific Conductivity (~~µmhos/cm~~) ms/c	0.758				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	10.3				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
SVOCs		4°C	2x1 liter AG	
Metals		HNO_3,4°C	1x1 liter P	@1025
Cyanide		NaOH,4°C	1x500mLP	
Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H_2SO_4,4°C	2x1 liter AG	
TOC		H_2SO_4,4°C	1x1 liter P	
Onsite VOA	✓	4°C	2x40ml	

Notes: SCREEN: 30 to 28'

Purge water: DK olive/DK gray

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS DRY CLEANERS - GROUP II
Project Number: 361206205981072
Site: ASSESSED TOXICS
Date: 11/08/06
Time: Start: 1515 End: 1620
Sample Location ID: ATGW01S01160IXX
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-15 @ 16 ft. bgs

___ Top of Well ___ Top of Protective Casing

Well Riser Stick-up _____ Ft. (from ground)

Protective _____ Ft. Casing/Well Difference

Protective _____ Ft. Casing

Depth to Water _____ Ft.

Well Material: ___ PVC ___ SS ___ _____

Well Locked? ___ Yes ___ No
GEOPROBE

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____

Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ __ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other _____	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
✓	✓	Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	PVC Screen	

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air _____ ppm Well Mouth _____ ppm

Purge Data Collected ___ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~4 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	19				
pH, units	7.4				
Specific Conductivity (umhos/cm)	0.355				
Turbidity (NTUS)	Sweet				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	1.9				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3,4°C	1x1 liter P	
___ Cyanide	___	NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4,4°C	2x1 liter AG	
___ TOC	___	H_2SO_4,4°C	1x1 liter P	
✓ CONSTITUENTS	✓	4°C	2 x 40ml	

Notes: SCREEN: 17 to 7
Purge water: Light Brown

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry Cleaners - Group II
Project Number: 36120620598/07.2
Site: Associated Textile
Date: 11/8/18
Time: Start: 1055 End: 1245
Sample Location ID: ATGW01-SP01-01XX
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-18@ 11 ft. bgs

___ Top of Well ___ Top of Protective Casing

Well Riser Stick-up _____ Ft. (from ground)

Protective _____ Ft. Casing/Well Difference

Protective _____ Ft. Casing

Depth to Water _____ Ft.

Well Material: ___ PVC ___ SS ___

Well Locked?: ___ Yes ___

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___

Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure ___ ___; Concrete Collar Intact ___ ___; Other _____ ___ ___ (Yes / No)

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
	✓	Peristaltic Pump	
		Submersible Pump	
✓		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter	SP-15

Decontamination Fluids Used: (✓ All That Apply at Location)

___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air 0.1 ppm Well Mouth 0.1 ppm

Purge Data Collected ✓ In-line ✓ In Container

Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ 1 Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.
Temperature, Deg. C	18				
pH, units	7.8				
Specific Conductivity (umhos/cm)	0.872				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	7.2				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs		4°C MS/MSD	3x40 ml	1230
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	
Onsite VOC	✓	4C		

Notes: SCREEN: 10.3 - 12.3
Purge water: Silty Lt Brn

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGENS DRY CLEANERS - GROUP II
Project Number: 361206 2059 / 07.2
Site: ASSOCIATED TEXTILE
Date: 11/9/06
Time: Start: ~~0950~~ 0930 End: 1050
Sample Location ID: ATGW019013011XX
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-19 @ 13 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___ _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure Yes / No; Concrete Collar Intact Yes / No; Other _____ Yes / No

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
	✓	Peristaltic Pump	
		Submersible Pump	
✓		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter	SP15 Pre Screen

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air <1 ppm Well Mouth 21 ppm
Purge Data Collected ___ In-line ✓ In Container
Sample Observations: ___ Turbid ✓ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~5 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	16					
pH, units	6.2					
Specific Conductivity (µmhos/cm)	0.465 mS					
Turbidity (NTUS)	n/a					
Oxidation - Reduction, +/- mv	n/a					
Dissolved Oxygen, ppm	8.1					

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	

Notes: SCREEN 4-14'
Purge Water.

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 36720620597/07.2
Site: Associated Textiles
Date: 11/09/2016
Time: Start: 1330 End: 1420
Sample Location ID: ATGW02201341X
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-20@ 34 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure; Concrete Collar Intact; Other _____ (Yes / No)

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter	SP-15

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ✓ ppm Well Mouth ✓ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~1 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	18				
pH, units	7.6				
Specific Conductivity (umhos/cm)	2.41				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	6.0				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO, ,4°C	1x1 liter P	
___ Cyanide		NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4,4°C	2x1 liter AG	
✓ TOC Onsite WC	✓	H_2SO_4,4°C	1x1 liter P	1415

Notes: SCREEN: 33' to 34' 4°C 2 x 40ml
Purge water: Lt grey, Some clay

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 361206 2059 | 0.7.2
Site: Associated Textiles
Date: 11/06/2006
Time: Start: 1415 End: 1435
Sample Location ID: ATTGW020026101 X X
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-20 @ 26 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure Yes ___ No ___; Concrete Collar Intact Yes ___ No ___; Other _____ Yes ___ No ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
___	✓	Peristaltic Pump	
___	___	Submersible Pump	
✓	✓	Bailer	
___	___	PVC/Silicon Tubing	
___	___	Teflon/Silicon Tubing	
___	___	Airlift	
___	___	Hand Pump	
___	___	In-line Filter	
✓	✓	Press/Vac Filter	SP-15

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air 0 ppm Well Mouth 0 ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2 Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.
Temperature, Deg. C	15				
pH, units	7.7 Consl				
Specific Conductivity (µmhos/cm)	2.98				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	10.1				

Salinity = 0.15%

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
✓ SVOCs	✓	4°C	2 2x1 liter AG	
___ Metals	___	HNO3, 4°C	1x1 liter P	
___ Cyanide	___	NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	
✓ TOC	✓	H_2SO_4, 4°C	1x1 liter P	
✓ ONSITE VOC	✓	4°C	2 x 40	1430

Notes: SCREEN: 24 to 28
Purge Water: Lt grey, cry

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGION 8 Dry CLEANERS - GROUP II
Project Number: 36120620597.2
Site: Associated Textiles
Date: 11/09/06
Time: Start: 1520 End: 1615
Sample Location ID: ATDCW21018
Signature of Sampler:

Water Level/Well Data

Well Depth ____ Ft. ___ Measured ___ Historical ___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up ____ Ft. (from ground)
Protective ____ Ft. Casing/Well Difference

GW-21 @ 18 ft. bgs

Protective ____ Ft. Casing

Depth to Water ____ Ft.
Well Material: ___ PVC ___ SS
Well Locked?: ___ Yes
Geoprobe
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer

Height of Water Column ____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__in.) = ____ Gal/Vol. ____ Total Gal Purged

Well Integrity:	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other		

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For)

Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used:

(✓ All That Apply at Location)
- ___ Methanol (100%)
- ___ 25% Methanol/75% ASTM Type II water
- ✓ Deionized Water
- ✓ Liquinox Solution
- ___ Hexane
- ___ HNO_3/D.I. Water Solution
- ___ Potable Water
- ___ None

Field Analysis Data

PID: Ambient Air / ppm Well Mouth / ppm
Purge Data Collected: ___ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2 Gal.	@ Gal.	@ Gal.	@ Gal.	@ Gal.
Temperature, Deg. C	17				
pH, units	8.0				
Specific Conductivity (~~umhos~~ mS/cm)	0.542				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv	—				
Dissolved Oxygen, ppm	8.9				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle /Lot Nos.
✓ VOCs	✓	4°C	3 x40 ml	
SVOCs		4°C	2x1 liter AG	
Metals		HNO_3, 4°C	1x1 liter P	
Cyanide		NaOH, 4°C	1x500mLP	@ 1605
Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H_2SO_4, 4°C	2x1 liter AG	
TOC		H_2SO_4, 4°C	1x1 liter P	
✓ onsite VOC	✓	4°C	2 x 40ml	

Notes: SCREEN: ~~26 to 28~~ 16 to 20'
Purge water: SITE

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry Cleaners - Group II
Project Number: 361206205907.2
Sample Location ID: ATGW122018011AA
Site: Roosevelt Terrace - DC
Date: 11/10/2006
Time: Start: 1200 End: 1225
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-22 @ 19 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked?: ___ Yes ___ GeoProbe
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes / No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter	SP-15

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data @ ~2 Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.
Temperature, Deg. C: 15.1					
pH, units: 7.0 (cmpl)					
Specific Conductivity (µmhos/cm): 0.371					
Turbidity (NTUS): 7 inco					
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm: 12.0					

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3,4°C	1x1 liter P	
___ Cyanide		NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4,4°C	2x1 liter AG	
___ TOC		H_2SO_4,4°C	1x1 liter P	
✓ Onsite VOC	✓	4°C	1 - 4oz	1220

Notes: Screen: 16-20
Pump Meter: Lt Brown

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry Cleaners - Group II
Project Number: 36120620598/0.7.2
Sample Location ID: ATGW024011601 XX
Site: Associated Textiles
Date: 11/17/06
Time: Start: 0720 End: 0750
Signature of Sampler: S

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

GW-24 @ 16 ft. bgs

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___ _____
Well Locked?: ___ Yes ___ _____ Geoprobe
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other _____	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air ____ ppm Well Mouth ____ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	14				
pH, units	6.8				
Specific Conductivity (µmhos/cm)	Cms/ 0.887				
Turbidity (NTUS)	7.00				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	8.5				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3,4°C	1x1 liter P	
___ Cyanide	___	NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4,4°C	2x1 liter AG	
___ TOC	___	H_2SO_4,4°C	1x1 liter P	

0745

Notes: Green: 14 to 18
Purge Water: Light Brown

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 36120620591 0.7.2
Site: Associated Textiles
Date: 11/17/06
Time: Start: 0755 End: 0820
Sample Location ID: ATGW025011601KK
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

GW-25 @ 16 ft. bgs

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ _____
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air ____ ppm Well Mouth ____ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	13				
pH, units	7.3				
Specific Conductivity-(µmhos/cm)	0.587				
Turbidity (NTUS)	>1,000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	8.7				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3, 4°C	1x1 liter P	
___ Cyanide	___	NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	
___ TOC	___	H_2SO_4, 4°C	1x1 liter P	

0815

Notes: Screen: 14 to 18

Purge water: Strong odor - petrol

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry Cleaners - Group II
Site: Associated Textiles
Project Number: 36120620591 0.7.2
Date: 11/10/6
Time: Start: 0830 End: 0850
Sample Location ID: ATGW02601161XK
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-26 @ 16 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
—	—	Submersible Pump	
✓	✓	Bailer	
—	—	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
—	✓	Press/Vac Filter	SP-15

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ✓ Colored ___ Odor

Purge Data @ ~2 Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	12.5				
pH, units (mv)	7.8				
Specific Conductivity (µmhos/cm)	0.260				
Turbidity (NTUS)	2.000				
Oxidation - Reduction, +/- mv	—				
Dissolved Oxygen, ppm	10.6				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3, 4°C	1x1 liter P	
___ Cyanide	___	NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	
___ TOC	___	H_2SO_4, 4°C	1x1 liter P	

0845

Notes: Screen: 14 to 18
Purge water: DK gray

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS DRY CLEANERS - GROUP II
Project Number: 361206205910702
Site: Associated Textiles
Date: 11/17/06
Time: Start: 1000 End: 1020
Sample Location ID: ATTGW-02701151011XK
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-27 @ 15 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No Locked
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure Yes ___ No ___; Concrete Collar Intact Yes ___ No ___; Other _____ Yes ___ No ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
—	—	Submersible Pump	
✓	✓	Bailer	
—	—	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
✓	✓	Press/Vac Filter	
—	—	SP-15	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air ✓ ppm Well Mouth ✓ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ✓ Colored ___ Odor

Purge Data @ 2 Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	13			
pH, units	5.1 Cond			
Specific Conductivity (µmhos/cm)	0.489			
Turbidity (NTUS)	>1000			
Oxidation - Reduction, +/- mv	—			
Dissolved Oxygen, ppm	10.4			

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 x 40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3, 4°C	1x1 liter P	
___ Cyanide	___	NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	
___ TOC	___	H_2SO_4, 4°C	1x1 liter P	

Notes: Green: 14 to 17
Purge water: Sheen, gray, slight odor

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS DRY CLEANERS - GROUP II
Project Number: 36120620598/0.7.2
Site: Associated Textiles
Date: 11/17/06
Time: Start: 0853 End: 0915
Sample Location ID: ATTGW02S01Y01XK
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-290 14 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked?: ___ Yes
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes / No
Prot. Casing Secure
Concrete Collar Intact
Other _____

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data @ ~2 Gal.	@ Gal.	@ Gal.	@ Gal.	@ Gal.	@ Gal.
Temperature, Deg. C	12.2				
pH, units	7.0				
Specific Conductivity (µmhos/cm) (MS)	0.456				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	10.2				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3x40 ml	0910
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3,4°C	1x1 liter P	
___ Cyanide		NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4,4°C	2x1 liter AG	
___ TOC		H_2SO_4,4°C	1x1 liter P	

Notes: Screen: 12 to 16
Purge water: DK grey

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - GROUP II
Project Number: 36120620591 0.7.2
Site: Associated Textiles
Date: 11/17/06
Time: Start: 0930 End: 0955
Sample Location ID: ATTGW02901160111X
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

GW-29 @ 16 ft bgs

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other _____		

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	
✓	✓	SP-15	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air ____ ppm Well Mouth ____ ppm Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ~2 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	12				
pH, units	6.7				
Specific Conductivity (µmhos/cm)	0.630				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	10.6				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	

0945

Notes: Screen: 14' to 18'
Purge water: Brown, gray

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - Group II
Project Number: 36120620597 | 0.7.2
Site: Associated Textiles
Date: 11/17/06
Time: Start: 1130 End: 1100
Sample Location ID: ATTGW01001141116
Signature of Sampler:

Water Level/Well Data

Well Depth _____ Ft. ___ Measured ___ Historical
GW-30 @ 14 ft. bgs
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water _____ Ft.
Well Material: ___ PVC ___ SS ___
Well Locked?: ___ Yes ___
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
✓	✓	PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
✓	✓	Press/Vac Filter	SP-15

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ✓ ppm Well Mouth ✓ ppm
Purge Data Collected ✓ In-line ✓ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data @ ~2 1/2 Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	14.7				
pH, units	7.2				
Specific Conductivity (µmhos/cm)	2351				
Turbidity (NTUS)	>1000				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	11.2				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	3 x 40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3,4°C	1x1 liter P	
___ Cyanide	___	NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4,4°C	2x1 liter AG	
___ TOC	___	H_2SO_4,4°C	1x1 liter P	

7045

Notes: Green: 12 to 16
Purge water: Lt Brown

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 360-062059
Site: Location 35 GW-35
Date: Feb 97
Time: Start: 09:00 End: 9:15
Sample Location ID: ATGWO35017OIXX
Signature of Sampler:

Water Level/Well Data

Well Depth 17 Ft. ___Measured ___Historical
___Top of Well ___Top of Protective Casing ____ _____
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing
Depth to Water 12 Ft.
Well Material: ___PVC ___SS _____
Well Locked?: ___Yes ___No
Well Dia. ___2 inch ___4 inch ___6 inch ___ _____ 1½ inch
Water Level Equip. Used: ✓Elect. Cond. Probe ___Float Activated ___Press. Transducer ___ _____
Height of Water Column _____ Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ __ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity:	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other _____	___	___

Equipment Documentation

Purging/Sampling Equipment Used: 1 hand 6b slotsicum 2" 1" 1/4

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	

Decontamination Fluids Used: (✓ All That Apply at Location)
___Methanol (100%)
___25% Methanol/75% ASTM Type II water
___Deionized Water
___Liquinox Solution
___Hexane
___HNO_3/D.I. Water Solution
✓Potable Water
___None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air _____ ppm Well Mouth _____ ppm
Purge Data Collected ___In-line ___In Container
Sample Observations: ✓Turbid ✓Clear ___Cloudy ___Colored ___Odor

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	13.8	13.6			
pH, units	6.57	6.91			
Specific Conductivity (µmhos/cm)	0.613	0.601			
Turbidity (NTUS)	9.99	254			
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	19.99	19.99			

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3,4°C	1x1 liter P	
___ Cyanide		NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4,4°C	2x1 liter AG	
___ TOC		H_2SO_4,4°C	1x1 liter P	

Notes: Groprobe sample
Collect sample @ 9:15

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 36120620S9
Site: Location 35 GW-35
Date: 9/24/97
Time: Start: 10:10 End: 1020
Sample Location ID: ATGWO3S02701RY
Signature of Sampler:

Water Level/Well Data

Well Depth 27 Ft. ___Measured ___Historical
___Top of Well ___Top of Protective Casing ___ ___
Well Riser Stick-up ___ Ft. (from ground)
Protective ___ Ft. Casing/Well Difference
Protective ___ Ft. Casing

Depth to Water 12 Ft.
Well Material: ___PVC ___SS ___
Well Locked?: ___Yes ___No
Well Dia. ___2 inch ___4 inch ___6 inch ___ ___
Water Level Equip. Used: ___Elect. Cond. Probe ___Float Activated ___Press. Transducer ___ ___

Height of Water Column ___ Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (__in.) = ___Gal/Vol. ___Total Gal Purged

Well Integrity: Prot. Casing Secure; Concrete Collar Intact; Other ___

	Yes	No
	___	___
	___	___
	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
___	___	Peristaltic Pump	___
___	___	Submersible Pump	___
___	___	Bailer	___
___	___	PVC/Silicon Tubing	___
___	___	Teflon/Silicon Tubing	___
___	___	Airlift	___
___	___	Hand Pump	___
___	___	In-line Filter	___
___	___	Press/Vac Filter	___
___	___		___
___	___		___

Decontamination Fluids Used: (✓ All That Apply at Location)
___Methanol (100%)
___25% Methanol/75% ASTM Type II water
✓ Deionized Water
___Liquinox Solution
___Hexane
___HNO_3/D.I. Water Solution
___Potable Water
___None
___ ___
___ ___

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm Purge Data Collected ___ In-line ___ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	no Reading				
pH, units					
Specific Conductivity (µmhos/cm)					
Turbidity (NTUS)					
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm					

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	2x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3,4°C	1x1 liter P	
___ Cyanide	___	NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4,4°C	2x1 liter AG	
___ TOC	___	H_2SO_4,4°C	1x1 liter P	
	___			

Notes: No Readings
Geoprobe Sample
Collect sample @ 1010

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 36120626.57
Site: Location 39 GW-39
Date: 8/22/97
Time: Start: 10:45 End: 11:16
Sample Location ID: ATGW039018018X
Signature of Sampler:

Water Level/Well Data

Well Depth 18 Ft. ___Measured ___Historical
___Top of Well ___Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing
Geoprobe
Depth to Water 13 Ft.
Well Material: ___PVC ___SS _____
Well Locked?: ___Yes ___No
Well Dia. ___2 inch ___4 inch ___6 inch ___ _____
Water Level Equip. Used: ___Elect. Cond. Probe ___Float Activated ___Press. Transducer ___ _____
Height of Water Column _____ Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ __ Gal/Ft. (__in.) = _____Gal/Vol. _____Total Gal Purged
Well Integrity: Prot. Casing Secure; Concrete Collar Intact; Other _____ — Yes / No

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	

Decontamination Fluids Used: (✓ All That Apply at Location)
___Methanol (100%)
___25% Methanol/75% ASTM Type II water
___Deionized Water
✓ Liquinox Solution
___Hexane
___HNO_3/D.I. Water Solution
___Potable Water
___None

Field Analysis Data

PID: Ambient Air _____ppm Well Mouth _____ppm
Purge Data Collected ___In-line ___In Container
Sample Observations: ___Turbid ✓Clear ___Cloudy ___Colored ___Odor

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	12.0	15.3			
pH, units	7.28	7.07			
Specific Conductivity (µmhos/cm)	0.91	0.91			
Turbidity (NTUS)	393	392			
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm					

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mL P	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	

Notes: Collect Sample @ 11:10

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: A-TRS
Project Number: 36120622059
Site: Location 40
Date: 8/30/95
Time: Start: 11:15 End: 12:00
Sample Location ID: ATGW040170IMS
Signature of Sampler:

Water Level/Well Data

Well Depth 17 Ft. ✓ Measured ___ Historical
Geoprobe screen
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water 2 Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ __ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other _____	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
___	___	Submersible Pump	
___	___	Bailer	
___	___	PVC/Silicon Tubing	
___	___	Teflon/Silicon Tubing	
___	___	Airlift	
___	___	Hand Pump	
___	___	In-line Filter	
___	___	Press/Vac Filter	
___	___		

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
___ Deionized Water
___ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air _____ ppm Well Mouth _____ ppm
Purge Data Collected ___ In-line ___ In Container
Sample Observations: ___ Turbid ✓ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	16.1	15.3			
pH, units	7.16	7.10			
Specific Conductivity (µmhos/cm)	0.599	0.856			
Turbidity (NTUS)	999	535			
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	18.63	19.89			

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	2x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3,4°C	1x1 liter P	
___ Cyanide	___	NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4,4°C	2x1 liter AG	
___ TOC	___	H_2SO_4,4°C	1x1 liter P	

Notes: with MS
ATGW040170IMS
Collect Sample @ 11:45

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 36120629.7
Site: Location 41 GW-41
Date: 8/20/07
Time: Start: 12:00 End: 12:25
Sample Location ID: ATGWD41017012YY
Signature of Sampler:

Water Level/Well Data

Well Depth 17 Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Geoprobe Screen

Depth to Water 12 Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ __ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Prot. Casing Secure; Concrete Collar Intact; Other _____ — Yes ___ ___ ___ — No ___ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
—	✓	Peristaltic Pump	
—	—	Submersible Pump	
—	—	Bailer	
—	—	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
—	—	Press/Vac Filter	
—	—		
—	—		

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
___ Deionized Water
✓ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air _____ ppm Well Mouth _____ ppm
Purge Data Collected ___ In-line ___ In Container
Sample Observations: ___ Turbid ✓ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	16.5				
pH, units	7.17				
Specific Conductivity (µmhos/cm)	0.95				
Turbidity (NTUS)	99.9				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	15.92				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	2x40 ml	
— SVOCs	—	4°C	2x1 liter AG	
— Metals	—	HNO_3,4°C	1x1 liter P	
— Cyanide	—	NaOH,4°C	1x500mLP	
— Nitrate/Sulfate	—	H_2SO_4,4°C	1x1 liter P	
— Nitrate/Phosphate	—	H_2SO_4,4°C	1x1 liter P	
— Pest/PCB	—	4°C	3x1 liter AG	
— TPH	—	H_2SO_4,4°C	2x1 liter AG	
— TOC	—	H_2SO_4,4°C	1x1 liter P	

Notes: w-dh MSD
ATGWD4001701MSD
Collect Sample @ 12:25

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 361206259
Site: Location 42 GW-42
Date: 8/24/07
Time: Start: 13:35 End: 13:55
Sample Location ID: ATGW04101701XY
Signature of Sampler:

Water Level/Well Data

Well Depth 17 Ft. ___Measured ___Historical
___Top of Well ___Top of Protective Casing ___ ___
Well Riser Stick-up ___Ft. (from ground)
Protective ___Ft. Casing/Well Difference
Protective ___Ft. Casing

Geoprobe Screen

Depth to Water 14 Ft.
Well Material: ___PVC ___SS ___ ___
Well Locked?: ___Yes ___No
Well Dia. ___2 inch ___4 inch ___6 inch ___ ___ 1 1/2
Water Level Equip. Used: ___Elect. Cond. Probe ___Float Activated ___Press. Transducer ___ ___

Height of Water Column ___Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___in.) = [___Gal/Vol. ___Total Gal Purged]

Well Integrity: Yes No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
___	___	Submersible Pump	
___	___	Bailer	
___	___	PVC/Silicon Tubing	
___	___	Teflon/Silicon Tubing	
___	___	Airlift	
___	___	Hand Pump	
___	___	In-line Filter	
___	___	Press/Vac Filter	
___	___		

Decontamination Fluids Used: (✓ All That Apply at Location)
___Methanol (100%)
___25% Methanol/75% ASTM Type II water
___Deionized Water
___Liquinox Solution
___Hexane
___HNO_3/D.I. Water Solution
___Potable Water
___None
___ ___
___ ___

Field Analysis Data

PID: Ambient Air ___ppm Well Mouth ___ppm
Purge Data Collected ___In-line ✓In Container
Sample Observations: ___Turbid ✓Colored ___Clear ___Odor ___Cloudy

Purge Data	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	17.7				
pH, units	7.08				
Specific Conductivity (µmhos/cm)	0.96				
Turbidity (NTUS)	99				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	12.52				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓VOCs	✓	4°C	2x40 ml	
___ SVOCs	___	4°C	2x1 liter AG	
___ Metals	___	HNO_3,4°C	1x1 liter P	
___ Cyanide	___	NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate	___	H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate	___	H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB	___	4°C	3x1 liter AG	
___ TPH	___	H_2SO_4,4°C	2x1 liter AG	
___ TOC	___	H_2SO_4,4°C	1x1 liter P	
	___			

Notes: Called Sample @ 13:40

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: AFRS
Project Number: 361206205.9
Site: Location 43 GW-43
Date: 8/10/97
Time: Start: 14:00 End: 1430
Sample Location ID: AFGW043017018Y
Signature of Sampler:

Water Level/Well Data

Well Depth 17 Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Geoprobe Screen

Depth to Water 12 Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (__in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity:	Yes	No
Prot. Casing Secure	___	___
Concrete Collar Intact	___	___
Other _____	___	___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓		Peristaltic Pump	
		Submersible Pump	
		Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	

Decontamination Fluids Used: (✓ All That Apply at Location)

___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
___ Deionized Water
___ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air _____ ppm Well Mouth _____ ppm
Purge Data Collected ___ In-line ___ In Container
Sample Observations: ___ Turbid ✓ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	20.10				
pH, units	7.22				
Specific Conductivity (µmhos/cm)	0.406				
Turbidity (NTUS)	203				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	11.27				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
___ VOCs	✓	4°C	2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	

Notes: Collect Sample @ 14:20

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 36126255
Site: Location 44 GW-44
Date: 8 Jan 97
Time: Start: 15:10 End: 16:10
Sample Location ID: ATGW044017015Y
Signature of Sampler:

Water Level/Well Data

Well Depth 19 Ft. (19 mm) ___Measured ___Historical
Top of Well ___Top of Protective Casing
Well Riser Stick-up ____ Ft. (from ground)
Protective ____ Ft. Casing/Well Difference
Protective ____ Ft. Casing
Geoprobe Screen
Depth to Water 15 Ft. (15 mm)
Well Material: ___PVC ___SS ____
Well Locked?: ___Yes ___No
Well Dia. ___2 inch ___4 inch ___6 inch ____ 1 in
Water Level Equip. Used: ___Elect. Cond. Probe ___Float Activated ___Press. Transducer ____
Height of Water Column ____ Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__in.) = ____Gal/Vol. ____Total Gal Purged
Well Integrity: Prot. Casing Secure; Concrete Collar Intact; Other ____ — Yes / No

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	

Decontamination Fluids Used: (✓ All That Apply at Location)
___Methanol (100%)
___25% Methanol/75% ASTM Type II water
___Deionized Water
___Liquinox Solution
___Hexane
___HNO_3/D.I. Water Solution
___Potable Water
___None

Field Analysis Data

PID: Ambient Air ____ppm Well Mouth ____ppm
Purge Data Collected ___In-line ___In Container
Sample Observations: ___Turbid ✓Colored ___Clear ___Cloudy ___Odor

Purge Data	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.
Temperature, Deg. C	No Reading				
pH, units					
Specific Conductivity (µmhos/cm)					
Turbidity (NTUS)					
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm					

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mL P	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	

Notes: No reading due to lack of Hg
Collect Sample @ 15:55

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: AFRS
Project Number: 361206.2.559
Site: Location 5 GW-45
Date: 8 Sept 97
Time: Start: 1610 End: 1615
Sample Location ID: AFGW045S01706KY
Signature of Sampler:

Water Level/Well Data

Well Depth 19 Ft. ___Measured ___Historical
___Top of Well ___Top of Protective Casing ___ ___
Well Riser Stick-up ___ Ft. (from ground)
Protective ___ Ft. Casing/Well Difference
Protective ___ Ft. Casing

Geoprobe Screen

Depth to Water 13 Ft.
Well Material: ___PVC ___SS ___
Well Locked?: ___Yes ___No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ ___
Water Level Equip. Used: ___Elect. Cond. Probe ___Float Activated ___Press. Transducer ___ ___

Height of Water Column ___ Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___in.) = [___Gal/Vol. ___Total Gal Purged]

Well Integrity: Yes No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other ___ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	

Decontamination Fluids Used: (✓ All That Apply at Location)
___Methanol (100%)
___25% Methanol/75% ASTM Type II water
___Deionized Water
___Liquinox Solution
___Hexane
___HNO_3/D.I. Water Solution
___Potable Water
___None
___ ___

Field Analysis Data

PID: Ambient Air ___ ppm Well Mouth ___ ppm
Purge Data Collected ___ In-line ___ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ✓ Colored ___ Odor

Purge Data	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.	@ ___ Gal.
Temperature, Deg. C	18.3				
pH, units	7.30				
Specific Conductivity (µmhos/cm)	0.721				
Turbidity (NTUS)	616				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	14.15				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
1 VOCs	✓	4°C	2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3,4°C	1x1 liter P	
___ Cyanide		NaOH,4°C	1x500mLP	
___ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4,4°C	2x1 liter AG	
___ TOC		H_2SO_4,4°C	1x1 liter P	

Notes: Has a very fishy odor
Collect sample @ 1650

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 361006259
Site: Location 46 GW-46
Date: 7/27/07
Time: Start: 0815 End: 1515
Sample Location ID: ATGW04601901DU
Signature of Sampler:

Water Level/Well Data

Well Depth 19 Ft. ___ Measured ___ Historical
Geoprobe Screen
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up ____ Ft. (from ground)
Protective ____ Ft. Casing/Well Difference
Protective ____ Ft. Casing

Depth to Water 13 Ft.
Well Material: ___ PVC ___ SS ____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch 1 1/2 ____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ____

Height of Water Column ____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ Gal/Ft. (__ in.) = ____ Gal/Vol. ____ Total Gal Purged

Well Integrity: Yes / No
Prot. Casing Secure
Concrete Collar Intact
Other ____

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	

Decontamination Fluids Used: (✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
___ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None

Field Analysis Data

PID: Ambient Air ____ ppm Well Mouth ____ ppm
Purge Data Collected ___ In-line ___ In Container
Sample Observations: ___ Turbid ___ Clear ___ Cloudy ✓ Colored ___ Odor

Purge Data	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.	@ ____ Gal.
Temperature, Deg. C	17.5				
pH, units	6.52				
Specific Conductivity (µmhos/cm)	0.394				
Turbidity (NTUS)	32.1				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	11.96				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Metals		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500mL P	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	

Notes: Trash Dup
ATGWO4601901DU
Collect Sample @ 0915

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 361062054
Site: Location 17 GW-47
Date: 8/28/97
Time: Start: 10:15 End: 1045
Sample Location ID: ATGW047017017
Signature of Sampler:

Water Level/Well Data

Well Depth 17 Ft. ___Measured ___Historical
___Top of Well ___Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Geoprobe Screen
Protective _____ Ft. Casing

Depth to Water 13 Ft.
Well Material: ___PVC ___SS _____
Well Locked?: ___Yes ___No
Well Dia. ___2 inch ___4 inch ___6 inch ___ _____
Water Level Equip. Used: ___Elect. Cond. Probe ___Float Activated ___Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ __ Gal/Ft. (__in.) = _____Gal/Vol. _____Total Gal Purged

Well Integrity: Yes No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	✓	Peristaltic Pump	
		Submersible Pump	
		Bailer	
		PVC/Silicon Tubing	
		Teflon/Silicon Tubing	
		Airlift	
		Hand Pump	
		In-line Filter	
		Press/Vac Filter	

Decontamination Fluids Used: (✓ All That Apply at Location)
___Methanol (100%)
___25% Methanol/75% ASTM Type II water
___Deionized Water
___Liquinox Solution
___Hexane
___HNO_3/D.I. Water Solution
___Potable Water
___None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air _____ppm Well Mouth _____ppm
Purge Data Collected ___In-line ___In Container
Sample Observations: __Turbid __Clear __Cloudy ✓Colored __Odor

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	12.3				
pH, units	6.94				
Specific Conductivity (µmhos/cm)	6871				
Turbidity (NTUS)	902				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	11.55				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs		4°C	2x40 ml	
SVOCs		4°C	2x1 liter AG	
Metals		HNO_3,4°C	1x1 liter P	
Cyanide		NaOH,4°C	1x500mLP	
Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H_2SO_4,4°C	2x1 liter AG	
TOC		H_2SO_4,4°C	1x1 liter P	

Notes: ATGW047017017MS
with MS ATGW047017017MS
Collect Sample @ 10:35

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 3612062059
Site: Location 7 GW 47
Date: 8/24/97
Time: Start: 1045 End: 1115
Sample Location ID: ATGW047027011XY
Signature of Sampler:

Water Level/Well Data

Well Depth 27 Ft. ___ Measured ___ Historical
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Geoprobe Screen

Depth to Water 15 Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ __ Gal/Ft. (__ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
___	___	Peristaltic Pump	_____
___	___	Submersible Pump	_____
___	___	Bailer	_____
___	___	PVC/Silicon Tubing	_____
___	___	Teflon/Silicon Tubing	_____
___	___	Airlift	_____
___	___	Hand Pump	_____
___	___	In-line Filter	_____
___	___	Press/Vac Filter	_____
___	___		_____

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
___ Deionized Water
___ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air _____ ppm Well Mouth _____ ppm
Purge Data Collected ___ In-line ___ In Container
Sample Observations: ✓ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	NO Reading				
pH, units					
Specific Conductivity (µmhos/cm)					
Turbidity (NTUS)					
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm					

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	___	4°C	(2x40 ml)	_____
___ SVOCs	___	4°C	2x1 liter AG	_____
___ Metals	___	HNO_3, 4°C	1x1 liter P	_____
___ Cyanide	___	NaOH, 4°C	1x500mL P	_____
___ Nitrate/Sulfate	___	H_2SO_4, 4°C	1x1 liter P	_____
___ Nitrate/Phosphate	___	H_2SO_4, 4°C	1x1 liter P	_____
___ Pest/PCB	___	4°C	3x1 liter AG	_____
___ TPH	___	H_2SO_4, 4°C	2x1 liter AG	_____
___ TOC	___	H_2SO_4, 4°C	1x1 liter P	_____
	___			_____

Notes: NO Reading
Collect Sample @ 1110

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

9404014D L22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 361206205G
Site: Location 48 GW-48
Date: 8/24/97
Time: Start: 1200 End: 1230
Sample Location ID: ATRS GW 048 0170 1 X V
Signature of Sampler:

Water Level/Well Data

Well Depth 17 Ft. ___Measured ___Historical
___Top of Well ___Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Geoprobe Screen

Depth to Water 13 Ft.
Well Material: ___PVC ___SS _____
Well Locked?: ___Yes ___No
Well Dia. ___2 inch ___4 inch ___6 inch _____
Water Level Equip. Used: ___Elect. Cond. Probe ___Float Activated ___Press. Transducer _____

Height of Water Column _____ Ft. X ___.16 Gal/Ft. (2 in.) ___.65 Gal/Ft. (4 in.) ___1.5 Gal/Ft. (6 in.) ___ __ Gal/Ft. (__in.) = _____Gal/Vol. _____Total Gal Purged

Well Integrity: Prot. Casing Secure; Concrete Collar Intact; Other _____ — Yes / No

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
—	—	Peristaltic Pump	
—	—	Submersible Pump	
—	—	Bailer	
—	—	PVC/Silicon Tubing	
—	—	Teflon/Silicon Tubing	
—	—	Airlift	
—	—	Hand Pump	
—	—	In-line Filter	
—	—	Press/Vac Filter	
—	—		

Decontamination Fluids Used: (✓ All That Apply at Location)
___Methanol (100%)
___25% Methanol/75% ASTM Type II water
___Deionized Water
___Liquinox Solution
___Hexane
___HNO_3/D.I. Water Solution
___Potable Water
___None
_____

Field Analysis Data

PID: Ambient Air _____ppm Well Mouth _____ppm
Purge Data Collected ___In-line ___In Container
Sample Observations: ___Turbid ___Clear ___Cloudy ___Colored ___Odor

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	18.7				
pH, units	6.65				
Specific Conductivity (µmhos/cm)	6.376				
Turbidity (NTUS)	Pkg				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	11.52				

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	2x40 ml	
__ SVOCs		4°C	2x1 liter AG	
__ Metals		HNO_3,4°C	1x1 liter P	
__ Cyanide		NaOH,4°C	1x500mLP	
__ Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
__ Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
__ Pest/PCB		4°C	3x1 liter AG	
__ TPH		H_2SO_4,4°C	2x1 liter AG	
__ TOC		H_2SO_4,4°C	1x1 liter P	

Notes: USE with MSD
Also w/ GW-190 170 MSD
Collect Sample @ 1210

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: ATRS
Project Number: 361206205?
Site: Location 99 GW-49
Date: ?1
Time: Start: 12:50 End: 1336
Sample Location ID: ATC-WC99012012X Y
Signature of Sampler: [signature]

Water Level/Well Data

Well Depth 17 Ft. ___ Measured ___ Historical
Geoprobe Screen
___ Top of Well ___ Top of Protective Casing
Well Riser Stick-up _____ Ft. (from ground)
Protective _____ Ft. Casing/Well Difference
Protective _____ Ft. Casing

Depth to Water 13 Ft.
Well Material: ___ PVC ___ SS _____
Well Locked?: ___ Yes ___ No
Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch ___ _____
Water Level Equip. Used: ___ Elect. Cond. Probe ___ Float Activated ___ Press. Transducer ___ _____

Height of Water Column _____ Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) ___ ___ Gal/Ft. (___ in.) = _____ Gal/Vol. _____ Total Gal Purged

Well Integrity: Yes No
Prot. Casing Secure ___ ___
Concrete Collar Intact ___ ___
Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For) Purging	Sampling		Equipment ID
✓	___	Peristaltic Pump	_____
___	___	Submersible Pump	_____
___	___	Bailer	_____
___	___	PVC/Silicon Tubing	_____
___	___	Teflon/Silicon Tubing	_____
___	___	Airlift	_____
___	___	Hand Pump	_____
___	___	In-line Filter	_____
___	___	Press/Vac Filter	_____
___	___		_____
___	___		_____

Decontamination Fluids Used:

(✓ All That Apply at Location)
___ Methanol (100%)
___ 25% Methanol/75% ASTM Type II water
✓ Deionized Water
___ Liquinox Solution
___ Hexane
___ HNO_3/D.I. Water Solution
___ Potable Water
___ None
___ _____
___ _____

Field Analysis Data

PID: Ambient Air _____ ppm Well Mouth _____ ppm
Purge Data Collected ___ In-line ___ In Container
Sample Observations: ___ Turbid ___ Clear ___ Cloudy ___ Colored ___ Odor

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	27.6				
pH, units	7.37				
Specific Conductivity (µmhos/cm)	6.72 J				
Turbidity (NTUS)	999				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	13.45				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	___	4°C	2x40 ml	_____
___ SVOCs	___	4°C	2x1 liter AG	_____
___ Metals	___	HNO_3,4°C	1x1 liter P	_____
___ Cyanide	___	NaOH,4°C	1x500mL P	_____
___ Nitrate/Sulfate	___	H_2SO_4,4°C	1x1 liter P	_____
___ Nitrate/Phosphate	___	H_2SO_4,4°C	1x1 liter P	_____
___ Pest/PCB	___	4°C	3x1 liter AG	_____
___ TPH	___	H_2SO_4,4°C	2x1 liter AG	_____
___ TOC	___	H_2SO_4,4°C	1x1 liter P	_____
	___			_____
	___			_____

Notes: Collect sample @ 1315

FIGURE 4-1
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN
ABB Environmental Services

Test Boring Log

Project: REGION 8 D.L. - GROUP II	Boring/Well No.: SB/GW-001	Project No.: 361206215910.02	
Client: NYSDEC	Site: Associated	Sheet No.: 1 of 2	
Logged By: B. Shaw	Ground Elevation	Start Date: 11/7.06/2006	Finish Date: 11/7/06/2006
Drilling Contractor: Geologic, NY	Driller's Name: Joe Mensch	Rig Type: 66 DT.	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV):	Casing Size: 1 1/2	Auger Size: 2"
Soil Drilled: 20'	Rock Drilled:	Total Depth: 30'	Depth to Groundwater/Date	Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	PI Meter Head Space	Lab Tests
1	S1 2.0/4.0					0-1 Lt Brown silty clay w/ grass & bricks, wet, MP	Fill		0.1		
2						1-3 Black silty sand, ash & coal & bricks, damp					
3						3-3.2 Brick					
4						3.2-4 olive Brown silty sandy-clay, wet, w/ some brick pieces					
5	S2 1.7/4.0					Brown/olive Brown sand silt clay, wet, bricks & ash, MP/HP			0.1		Composite 5 to 7' ATGS0106701 KF @1230
6											
7											
8											
9	S3 3.2/4.0					8 to 9 olive clay w/ trace coarse gravel, moist	CL		0.1		
10						9-9.5 cobbles & some clay HP					
11						9.5-11.5 V. stiff, HP clay Brown to gray Stratified moist	CL/ML				
12						11.5-11.7 cobble	SC				
13	S4 1.5/4.0					11.7-12 gray sandy clay wet, MP/HP, MS+ff.			0.1		
14						12-15 Log gray Sandy clay w/ sand & gravel, wet, MP/HP, MS+ff/soft, wet, MP	SC				
15						15-16 Brown stone fragments					
16											

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

9404014D(z) L33

Test Boring Log

Project: Region 8 D.C. - Group II	Boring/Well No.: SB/GW-001	Project No.: 3612062059/0
Client: NYSDEC	Site: Associated	Sheet No. 2 of 2
Logged By: B. Shaw	Ground Elevation:	Start Date: 11/06/2006 — Finish Date: 11/06/2006
Drilling Contractor: Geologic	Driller's Name: Joe Mensel	Rig Type: 66 DT
Drilling Method: Direct Push	Protection Level: D — P.I.D. (eV): —	Casing Size: 1 1/2" — Auger Size: 2"
Soil Drilled: 20'	Rock Drilled: —	Total Depth: 20' — Depth to Groundwater/Date: ~18 — Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	PI Meter Head Space		Lab Tests
14												
15							SC					
S4 16						olive gray sandy clay wet/saturated m stiff/stiff, HP,			<1			
17						@ ~18' gray gravel w/ some fines & sand saturated, loose						
S5 18	1.3 / 4.0						GW					
19												
20												
21												
22												
23												
24												
25												
26												
27												

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

Test Boring Log

Project: REGION 8 D.L. - GROUP II	Boring/Well No.: SB/GW-004	Project No.: 361206259/07.2	
Client: NYSDEC	Site: Associated Textiles	Sheet No.: 1 of 2	
Logged By: B. Smart	Ground Elevation	Start Date: 11/08/2006	Finish Date: 11/08/2006
Drilling Contractor: Geologic, NY	Driller's Name: Joe Mengel	Rig Type: 66 DT.	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV)	Casing Size: 1 1/2 / Auger Size: 2"
Soil Drilled: 20	Rock Drilled	Total Depth: 29'	Depth to Groundwater/Date / Piez ☑ Well ☐ Boring ☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	Monitoring (ppm): PI Meter Head Space	Lab Tests
1						0-1 DK Brown Silty fine Sand, damp, roots, PG	Fill				
2	S1 1.7/4.0					1-3 Brown fine sandy silt w/ lots of grass & sh					
3						3-4 Lt orange brown & fine Sandy Silt, moist, PG, MP, friable Dense	SM				
4						4-5.3 yellowish Brown fine Sandy silt, Dense PG, trace m coarse/coarse Sand, damp, friable					
5	S2 4.0'/4.0					6.3-7.1 orange brown Same as 4-5.3					
6						7.1-8 Brown Sandy clay w/ some fine gravel, WG, moist, HP/MP, Lenses/stringers of cobbles @ 7.4	SC				
7											
8						8-10.2 Clayey gravel w/ little Sand, damp, WG, loose, SP/MP	CL				
9	S3 2.0/4.0										
10						10.2-12 gravely clay w/ some Sand, moist/wet, HP/MP MSHFF, WG	CL				
11											
12						12-14 Same as 10.2-12					
13	S4 1.8/4.0					14-15 Sand gravel clay mix, saturated, loose, WG	GC				
14						15-15.8 Brown sh gray Silty Sand & gravel, Saturated, WG, loose					
15						15.8-16 lt gray Sand gravel & clay loose, WG, V. Soft,					
16											

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project: Region 8 D.C. - Group II		Boring/Well No.: SB/GW-004	Project No.: 361206205917.2
Client: NYSDEC	Site: Associated Textiles		Sheet No.: 2 of 2
Logged By: B. Shaw	Ground Elevation	Start Date: 11/08/2006	Finish Date: 11/08/2006
Drilling Contractor: Geologic	Driller's Name: Joe Menkel		Rig Type: 66 DT
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): /	Casing Size: 1 1/2"	Auger Size: 2"
Soil Drilled: 20	Rock Drilled: /	Total Depth: 29	Depth to Groundwater/Date	Piez ☑ Well ☐ Boring ☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space	Lab Tests
14											
15							GC				
16						16-19 grey brown silty sandy gravel; rounded WG, loose, saturated	GM				
17	23/40										
18											
19						19-20 fluvial deposit, grey sand w/ gravel, WG, medium	SW				
20											
21											
22											
23											
24											
25											
26											
27											

S4
S5

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

9404014D(z) L33

Test Boring Log

Project: REGION 8 D.L. - GROUP II		Boring/Well No.: SB/GW-01X	Project No.: 361206259/0..2
Client: NYSDEC	Site: Associated Textiles		Sheet No.: 1 of 1
Logged By: B. Shaw	Ground Elevation	Start Date: 11/06/2006	Finish Date: 11/06/2006
Drilling Contractor: Geologic, NY	Driller's Name: Joe Mensel		Rig Type: 66 DT.
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV)	Casing Size: 1 1/2	Auger Size: 2"
Soil Drilled: 16'	Rock Drilled:	Total Depth: 28'	Depth to Groundwater/Date	Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space	Lab Tests
1						0-1 DK olive/Black silty organic 1mm, moist, MP			<0.1		
2	S1 2.2/4.0					1-~2.5 Backfill - stony silty coal/glass	Fill				
3						2.5-3.5 olive Brown silty sand gravel, moist, MP, MDense PG	GM				
4						3.5-4 orange Brown gravelly clay w/ little sand, moist HP/MP, MStiff	CL/GC				
5	S2 1.9/4.0					4-4.8 Cobbles w/ some silty sand; WG	GM		<0.1		
6						4.8-6 silty sand & gravel, moist WG	SM/GM				
7						6-7.2 Brown medium coarse sand, moist trace coarse sand, PG	SP				
8						7.2-8 Same as 4.8 to 6.					
9						olive Brown Sandy clay & gravel	GC		<0.1		Composite soil sample from 8 to 10; MS & MSD
10	S3 1.4/4.0					no.st, MP/HP, WG, MStiff					
11											
12											
13						DK olive/DK grey silty gravel w/ some sand; Saturated v. loose, WG, trace cobbles	GM		<0.1		
14	S4 ?/4.0										
15											
16											

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project: REGION 8 D.C. - GROUP II	Boring/Well No.: SB/GW-009	Project No.: 361206259/0..2	
Client: NYSDEC	Site: Abandoned Textiles	Sheet No.: 1 of 1	
Logged By: B. Shaw	Ground Elevation	Start Date: 11/07/2006	Finish Date: 11/07/2006
Drilling Contractor: Geologic, NY	Driller's Name: Joe Mansel	Rig Type: 66 DT.	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV)	Casing Size: 1 1/2	Auger Size: 2"
Soil Drilled: 16'	Rock Drilled:	Total Depth: 16'	Depth to Groundwater/Date	Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space	Lab Tests
1						0-1 DK Brwn silty loam; roots					
2	S1 / 4.0					1-2.5 Black to brwn silt, sand & gravel, org.	FILL				
3						2.5-4 sandy silt & gravel mostly, mod, WG, M Dense					
4							GM				
5	S2 / 1.9 / 4.0					4-5.8 Lt Brown fine to coarse Sand, PG, loose, moist to WET					
6						5.8-8 Brown gravelly clay w some sand, wet, MD, Stiff	CL				
7											
8											
9						gravel & clay w some sand Stratified brown to orange WG, Soft to Stiff	CL/SC				
10	S3 / 2.1 / 4.0										
11											
12											
13						Same as above but soft; Saturated @ 13.8'					
14	S4 / 0.9 / 4.0										
15											
16											

PID returning

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project: REGION 8 D.L. - GROUP II	Boring/Well No.: SB/GW-01	Project No.: 361206.2159.0002	
Client: NYSDEC	Site: Associated Textiles	Sheet No.: 1 of 1	
Logged By: B. Shaw	Ground Elevation	Start Date: 11/07/2006	Finish Date: 11/07/2006
Drilling Contractor: Geologic, NY	Driller's Name: Joe Mensel	Rig Type: 66 DT	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV)	Casing Size: 1 1/2	Auger Size: 2-1
Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	Monitoring (ppm): PI Meter Head Space	Lab Tests
1	S1 1.1/4.0					0-~.5 organic silty loam & gravel, damp, roots					
2						.5-3.5 Black to white, Sandy gravel, Ash & Slag & Brick					
3						3.5-4 Grade to tan Brown Sandy clay & gravel, no staining, HP, PE					
4						4-5 Black sandy gravel Ash, Slag	Fill				
5	S2 1.4/4.0					5-7 Brown Sandy gravel w/ some fines, WC, damp, SP					
6											
7						7-8 Brown mottled sand w/ some clay & trace fine gravel damp, WC					
8						8-9.5 Same as 7-8					
9	S3 1.2/4.0					9.5-12 gravelly clay w/ little Sand, wet, PC HP, Staff,				PID not working	
10											
11											
12	S4 1.1/4.0					12-~14 Black Sandy gravel w/ metal Slag					
13											
14						14-15 orange Brown Sandy clay w/ some fine gravel V. Soft, saturated, WC					
15						15-16 Brown silty gravel w/ little Sand Saturated, Wet, PC					
16											

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

9404014D(z) L33

Test Boring Log

Project: REGION 8 D.C. - GROUP II		Boring/Well No.: SB/GW-013	Project No.: 3612062159/07.2
Client: NYSDEC	Site: Associated Textiles		Sheet No. 1 of 1
Logged By: B. Shaw	Ground Elevation:	Start Date: 11/07/2006	Finish Date: 11/07/2006
Drilling Contractor: Geologic, NY	Driller's Name: Joe Mensel		Rig Type: 66 DT
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV):	Casing Size: 1 1/2 — Auger Size: 2"
Soil Drilled: 16'	Rock Drilled: —	Total Depth: 24 ~~30~~	Depth to Groundwater/Date — Piez ☑ Well ☐ Boring ☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	PI Meter Head Space		Lab Tests
0–4 (S1)	1.4/4.0					0 to 1.5 DK Brn silty loam w/ some gravel, damp 1.5 to 3.5 Black friable sandy silt w/ slag & glass, Ash, damp 3.5-4 brownish orange sandy clay & gravel, damp, WG, m dense	Fill Fill/GC		<1			
4–8 (S2)	1.3/4.0					4-7 orangish brn clay sand & gravel, some cobbles, moist, WG, m dense 7-8 m coarse to coarse sand damp loose, PG,	SP		<1			
8–12 (S3)	1.1/4.0					8-11 sand & gravel w/ some fines, wet, WG 11-12 sandy gravelly clay wet/moist, HP WG trace cobbles @ ~11.	SW GC		<0.1			
12–16 (S4)	0.8/4.0					12-13 olive sandy clay w/ trace fine gravel, moist, HP, PG, soft. 13-15.5 stratified orange to black sandy clay, soft, 15.5-16 Lt Brn silty clay, saturated, v. soft.	SC/GC		<0.1			

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

9404014D(z) L33

Test Boring Log

Project: REGION 8 D.C. - GROUP II		Boring/Well No.: SB/GW-014	Project No.: 361206215907.2
Client: NYSDEC	Site: Associated Textile	Sheet No.: 1 of 1	
Logged By: B. Shaw	Ground Elevation	Start Date: 11/07/2006	Finish Date: 11/07/2006
Drilling Contractor: Geologic, NY	Driller's Name: Joe Mensel	Rig Type: 66 DT.	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV)	Casing Size: 1 1/2	Auger Size: 2"
Soil Drilled: 16	Rock Drilled	Total Depth: 39'	Depth to Groundwater/Date: ~12.61	Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space	Lab Tests
1	S1 3.1/4.0					0-0.6 Asphalt	Asphalt				
2						0.6-1.2 Lt Brown silt/sand & fine gravel, dry, WG, MP	Fill				
3						1.2-3 Black sandy gravel w/ Ash, glass, dry WG		SMSC			
4						3-3.2 Cobbles					
						3.2-4 Stratified Lt Brown fine sand/silt/clay & sand clay damp PG, Stiff					
5						4-6 yellowish Lt Brown Silt-clay-sand, moist, MP PG, fines to Coarse sand	SMSC				
6	S2 1.4/4.0					6-8 Brown Sandy clay-gravel damp WG, M Dense	SCGC				
7											
8						8-8.8 Same as 6-8					
9	S3 2.0/4.0					8.8-10 wet sandy clay w/ some fine gravel, HP/MP, MStiff	CL				
10						10-11.2 Olive Sandy gravely clay Saturated, MStiff, Slight odor, WG, HP	GC				
11						11.2-12 sandy clay & gravel damp, MStiff, MP	SCGC				
12						12-13 gravelly clay, wet Wise, WG	CL				
13	S4 1.5/4.0					13-15 yellowish brown w/ Light Greys, V Soft Sandy clay wet, WG, trace gravel	CLSA				
14						~15-16 DK grey/DK brown silty sandy gravel, Wood, Saturated					
15											
16											

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project: REGION 8 D.C. - GROUP II	Boring/Well No.: SB/GW-015	Project No.: 361206259/07.2	
Client: NYSDEC	Site: Associated Textiles	Sheet No.: 1 of 1	
Logged By: B. Smart	Ground Elevation	Start Date: 11/08/2006	Finish Date: 11/08/2006
Drilling Contractor: Geologic, NY	Driller's Name: Joe Merrill	Rig Type: 66 DT.	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV)	Casing Size: 1 1/2 / Auger Size: 2"
Soil Drilled: 16	Rock Drilled	Total Depth: 20	Depth to Groundwater/Date / Piez ☑ Well ☐ Boring ☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space	Lab Tests
1	S1 3.1/4.0					0-0.5 Asphalt	Asphalt		Lo.1		
2						0.5-1 DK Brown/Black Sandy gravel, moist.	Fill				
3						1-1.8 Black to white ash Sand & gravel w some glass	WG				
4						1.8-3 Olive silty clay w trace M coarse to fine Sand, wet, MP, Stiff, PG	ML				
5	S2 3.7/4.0					3-4 Orange Brown clayey silt, moist, MD, VStiff, friable, AC			Lo.1		
6						4-6.3 Same as 3-4	ML				
7						6.3-8 Brown (Stratified graded) Gravelly clay w some Sand, moist MP, WG, M Dense/to MStiff	CGSC				
8						8 to ~ 11 Same as 6.3-8			Lo.1		
9	S3 1.0/4.0					11-12 clay gravel Sand mix, wet to Saturated, MP/HP, WG, Soft					
10											
11							GCSC				
12						12-12.5 Same as 11-12.			Lo.1		
13	S4 3.0/4.0					12.5-15 Lt Orange Brown Silty Sand & gravel, Saturated/wet, WG					
14						15-16 Same clay w some fine gravel, MStiff, Sat, WG	GMSM				
15											
16											

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project: REGION 8 D.L. - GROUP II	Boring/Well No.: SB/GW-09	Project No.: 361206259/07.2	
Client: NYSDEC	Site: Associated Textiles	Sheet No.: 1 of 1	
Logged By: B. Shaw	Ground Elevation	Start Date: 11/8/2006	Finish Date: 11/8/2006
Drilling Contractor: Geologic, NY	Driller's Name: Joe Mensel	Rig Type: 66 DT	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV)	Casing Size: 1 1/2	Auger Size: 2"
Soil Drilled: 12'	Rock Drilled:	Total Depth: 14'	Depth to Groundwater/Date: 8'	Piez ☑ Well ☐ Boring ☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	Monitoring (ppm): PI Meter Head Space	Lab Tests
1	S1 18/40					DK brown, soil, plastic, dry PID < 1 ppmv 0-0.5', firm 0.5-1.8' Brown, soil with gravel, poorly graded PID < 1 ppmv recovered only 1.8'	SW				
2											
3											
4											
5	S2 1.5/4.0					Brown, soil with gravel poorly graded, PID = 1 ppmv 3.7'-4.5', firm Water observed at ~8' recovered only 1.5'	SP/GP				
6											
7											
8											
9	S3 2.6/4.0					Brown, gravelly sands, poorly graded, non-plastic, wet, soft PID 1.0 ppmv recovered 2.6'	SW				
10											
11											
12											
13											

Bottom of 10' screen at 14'

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

9404014D(z) L33

Test Boring Log

Project	Boring/Well No.	Project No.
ATRS	GW-3	36126625.9

Client	Site	Sheet No.
NYSDEC	Elmora	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
MAM		2/27/07	2/27/07

Drilling Contractor	Driller's Name	Rig Type
Geologic	Steve	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D	580 B	2"	

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16'		~16'	~14'	☐	☐	☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests
0-4	4/2.3	SS-1				0-4 GM, Good, clean to coarse brown sand, fine	GM		0.0 ppm	0.0 ppm	
4-8	4/3.1	SS-1				4-5; silty clay, medium organic clay, brown with some reddish color			0.0	0.0 ppm	
						5-6 - OL, grayish, dense soft,	OL				
						6-7 - OL, brownish, dense	OL			1.2 ppm	
8-12	4/3.8	SS-1				8-10; OL, brownish, Good hand test soft,	OL			0.0	
						10-12, OL, brownish to gray very soft, Fine sand and silt	OL				
12-16	4.0/3.8	SS-1				12-14, silty clay, with some medium silt, Good, gray				2 ppm	
						14-16; wet, clay, brownish	OL				

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project: ATRS		Boring/Well No.: GW-32	Project No.: 36 20620 59
Client: NYSDEC	Site: Elmira		Sheet No. 1 of 1
Logged By: MAM	Ground Elevation:	Start Date: 8/27/07	Finish Date: 8/27/07
Drilling Contractor: Geoloc	Driller's Name: Steve		Rig Type: Geoprobe
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): SB0 B	Casing Size: 2"	Auger Size:
Soil Drilled: 16'	Rock Drilled:	Total Depth: 16'	Depth to Groundwater/Date: ~12'	Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests
0-1	4.0/2.0	SS 1				2.5-4 - Loose Gravelly soils GW, lite to dark brown, moist 100SC,	GW		2.1 ppm		
4-8	4.0/2.9	SS 2				4-5; Gravel w. trace Fines GC, medium dense, dry, brownish, clay; 5-8, Reddish Gray, clay dense, tostiff, damp,	GC / CL		0.0 ppm / 6ppm		
8-12	4.0/3.0	SS 3				8-10.5, brownish gray, OL, low plasticity, medium stiff	OL		0.0 ppm		
12-16	4.0/3.9	SS 4				10.5-12 - grayish, clay to silty clay, damp; 12-14 - grayish, silty clay well graded, damp; CL 14-15 - grayish, silty clay well graded, damp to moist	CL / CL / CL		1.5 ppm / 3 ppm		

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project: ATRS		Boring/Well No.: GW-33	Project No.: 361206205.7
Client: NYSDEC	Site: Elmira		Sheet No. 1 of 1
Logged By: MAM	Ground Elevation	Start Date: 2/27/07	Finish Date: 2/27/07
Drilling Contractor: Geologic	Driller's Name: Steve		Rig Type: Geoprobe
Drilling Method: Direct push	Protection Level: D	P.I.D. (eV): 580B	Casing Size: 2" / Auger Size
Soil Drilled: 16'	Rock Drilled	Total Depth: ~16'	Depth to Groundwater/Date: ~15

Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	Monitoring (ppm): PI Meter Head Space	Lab Tests
0-4	4.0/3.0					0-4 Gravel with fines, brownish to gray, loose, dry,	GW		0.0		
4-8	4.0/4.0					4-6, Brown, medium dense clay, dry, 1 a years	CL		0.0		
						6-8, dark Brown, dense clay, some silty clay in between,	OL		0.0		
8-12	4.0/3.0					8-12, gray, silty clay, rocky/ dry, loose	SM		0.0		
12-16	4.0/2.5					12-15, brownish gray, weathered rock, dry,	OL				
						15-16, wet, gray, silty clay					

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project	Boring/Well No.	Project No.
ATRS	GW-34	361060057

Client	Site	Sheet No.
NYSDEC	Elmira	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
MAM		8/27/07	8/27/07

Drilling Contractor	Driller's Name	Rig Type
Geologic	Jerry	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D	580 B	2"	

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16'		~16'	~15'	☐	☐	☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests
0-4	4.0/2.0	SS-1				0-4; Gravel with fines brownish tan/black, poorly graded, loose	GW		2.1 ppm		
4-8	4.0/3.8	SS-1				4-4.5, Gravel with fines black poorly graded medium dense,	GW		0.0 ppm		
						4.5-8, Silty clay, brown layered to Fair to good dry,	CL		0.0 ppm		
8-12	4.0/2.5	SS-1				8-12, wet Silty, clay some weathered rock, grayish loose to slightly loose,	CL		0.0 ppm		
12-16	4.0/1.5	SS-1				12-16 - wet, Silty clay clast C rich, moist,	CL		0 ppm		

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project	Boring/Well No.	Project No.
ATRS	GW-35	361206.2059

Client	Site	Sheet No.
NYSDEC	Elmira	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
MAM		8/27/07	8/27/07

Drilling Contractor	Driller's Name	Rig Type
Geologic	Steve	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D	580 B	2"	

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16'		~16	~15	☐	☐	☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests
0-4	4.0/2.5	SS.1				0-4, gravel silty little to no fines, black	GW		0-1 6mm 2-4 MMA		
4-8	4.0/3.8	SS.1				4-8, weathered clay, medium brown, layered fair to good dry	CL		0 ppm		
8-12	4.0/2.5	SS.1				8-12 - Silty clay, heavier rock medium brown, loose to compact	OL		0 ppm		
12-16	4.0/2.5	SS.1				12-16, silty clay, wet elastic fines, moist	OL		0.5 163 ppm		

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project	Boring/Well No.	Project No.
ATRS	3C	361206205M

Client	Site	Sheet No.
NYSDEC	Elma	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
MAM		8/27/07	8/27/07

Drilling Contractor	Driller's Name	Rig Type
Geoprobe	Steve	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D	580 B	2"	

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16'		~16'	~14'	☐	☐	☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests
0-4	4.0/2.0	SS-1				0-4, gravel, silt, little to little fine, black	GW		6.6 ppm		
4-8	4.0/3.8	SS-1				4-8, silty clay, brown dense, CL	CL		0.0 ppm		
						8-12, weathered clay medium, brown, layered dry	CL		0.0 ppm		
8-12	4.0/2.5	SS-1				CL (MH) 8-10, ~~SH~~, stiff brown, dry, moist CL	CL		0.0 ppm		
						10-12, OL, damp, grayish,	OL		0.0 ppm		
12-16	4.0/2.0	SS-1				12-16, wet, weathered silty clay, soft, POOR	OL		0.0 ppm		

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project	Boring/Well No.	Project No.
ATRS	GW-37	36120620.59

Client	Site	Sheet No.
NYSDEC	Fulton	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
MAM		8/27/97	8/27/97

Drilling Contractor	Driller's Name	Rig Type
Geologic	Steve	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D		2"	

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16'		16	~14	☐	☐	☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests
0-4	4.0/2.5	Soil				0-4, Gravel, little to fine black, clayey s.	GW			0.1 ppm	
4-8	4.0/2.6	Soil				4-8, layed, clay, medium to stiff,	CL			0.1 ppm	
8-12	4.0/3.5	Soil				8-12, silty clay, brown 100% to compact	OL			0.0 ppm	
12-16	4.0/0.0	Soil				no recovery, bedrock				0.0 ppm	

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project	Boring/Well No.	Project No.
ATR	GW 38	36D06205

Client	Site	Sheet No.
NYSDEC	Elmira	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
MAM		8/27/97	

Drilling Contractor	Driller's Name	Rig Type
Geologic	Steve	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D			

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16'		~16'	14	☐	☐	☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Monitoring (ppm)	Lab Tests
0-4	4.0/2.2	SO.1				0-4-GW, trace of clay very loose, wh. tish to gray dry	GW		0.0 ppm			
4-8	4.0/2.5	SO.1				8-8, S. Ity Clay, layed medium, brown, dry	OL		0.0 ppm			
8-12	4.0/2.5	SO.1				8-12, S. Ity Clay gravish to brown, medium stiff, dry 1. He S. Ity rock	OL		0.1 ppm			
12-16	4.0/2.5	SO.1				12-16, wet, weathered S. Ity clay, Soft,	OL		3 ppm			

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project	Boring/Well No.	Project No.
Assoc Textile	39	361206CS1

Client	Site	Sheet No.
NYSDEC	Assoc Textile Elmira NY	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
MAM		8/27/96	8/27/96

Drilling Contractor	Driller's Name	Rig Type
Geologic	Steve	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D	580 B	2"	

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16		16	~14'	☐	☐	☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests
0-4	4.0/2.8	SS.1				0-1; CP, silty, little fine sand, black tobacco 2-4; CP, silty, brown	CP		0.0 ppm		
4-8	4.0/3.5	SS.1				4-8, weathered clay, mottled brown, layered fair to good dry	CH		1.0 ppm		
8-12	4.0/3.5	SS.1				8-12 - Silty clay, weathered rock, brown, loose to compact	CH		0.1 ppm		
12-16	4.0	SS.1				12-16 - Silty, weathered rock wet, moist	CH		168 ppm		

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project	Boring/Well No.	Project No.
ATRS	GW 47	36182062059

Client	Site	Sheet No.
NYSDEC	ATRS	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
M.A.M		8/29	8/29/97

Drilling Contractor	Driller's Name	Rig Type
Geologic	Steve	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
direct push	D	5801	2"	

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16'		~16'	~15	☐	☐	☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests
0-4	4.0/2.5	Soil				0-1 - silty gravel, loose, little clay, dry, grayish to brown	GM		0.0		
						1-4, Inorganic silt, dry brown	ML		0.0		
4-8	4.0/2.5	Soil				4-8, Fine grained soil rocky clay dry, brown	CL		1.0		
8-12	4.0/1.5	Soil				8-10, moist, silty, clay clump	CH		0.1		
						10-11, moist, silty clay medium stiff			0.1		
12-16	4.0/1.0	Soil				12-16; wet, brown, sticky clay, fair to good silty plastic	CH		0.0		

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project	Boring/Well No.	Project No.
ATRS	GW48	361206051

Client	Site	Sheet No.
NYSDEC	Elmira	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
MAM		8/25/97	8/29/97

Drilling Contractor	Driller's Name	Rig Type
Geologic	Steve	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D			

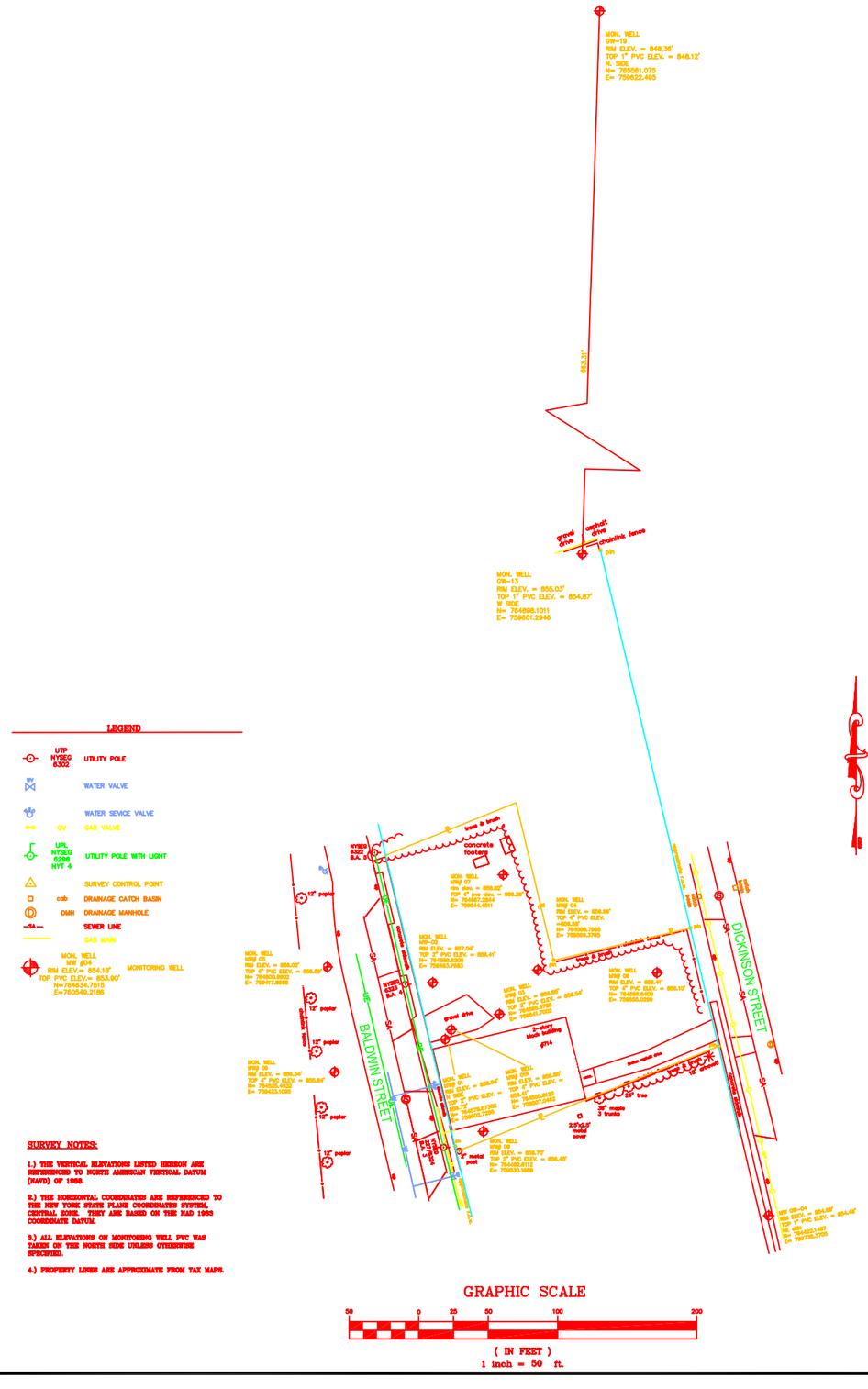
Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16'		16'	~15'	☐	☐	☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Monitoring (ppm)	Lab Tests
0-4'	1.0/2.5	Soil				0-1', brown gravel poorly graded, rocks, dry	GW		0.0			
						1-4', some rock, gravel mixed in, dry	GW		0.0			
4-8'	4.0/1.9	Soil				4-8'; gravel, poorly graded sands, little no fines	SP		0.0			
8-12'	4.0/2.0	Soil				8-10', silty gravel, little clay, damp	GC		0.0			
						10-12', moist to wet, clay silty	ML		0.0			
12-16'	4.0/1.5	Soil				12-, moist, silty, gravel, clay						

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

APPENDIX D

SITE SURVEY



DATE	REVISIONS	BY
2/07	ADDED WELL GW-19	CR

DRAWING ALTERATION

WARNING: It is a violation of the New York State Education Law, Article 145, Section 7209, Special Provision 2, for any person unless he is acting under the direction of a Licensed Professional Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and notation "altered by" followed by his signature and date of such alteration, and a specific description of the alteration.

BY: _____

DATE: _____

LU ENGINEERS
Civil and Environmental

JOSEPH C. LU ENGINEERING AN
LAND SURVEYING, P.C.
2230 Penfield Road
Penfield, New York 14526
(585) 377-1450
FAX: (585) 377-1266

PROJECT:

ASSOCIATED TEXTILE
RENTAL SERVICES
ELMIRA, NY

CLIENT:

MACTEC ENGINEERING, INC.
511 CONGRESS STREET
PORTLAND, ME 04101

DRAWING TITLE:

Environmental
MAP

DESIGNED BY:	SCALE: 1" = 50'
DRAWN BY: AEM	DATE: 01/02/07
CHECKED BY: CJR	PROJECT No. 36414-02

SHEET	DRAWING No.
1 OF 1	S-1

J:\Projects\36400 MACTEC\36414 Region 8 Cleaners Sites\36414-02 Associated\Cadd\Associated Cleaners.dwg

APPENDIX E

DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT
2006 GROUNDWATER SAMPLING EVENT
ASSOCIATED TEXTILES
ELMIRA, NEW YORK

Introduction:

Fifty-three groundwater samples were collected by MACTEC at the Associated Textiles site in November 2006. Samples were analyzed on-site by MACTEC for volatile organic compounds using the Photovac portable Gas Chromatograph (GC) Model 10S50 by the analytical method described in EPA SOP #2109. The samples were analyzed for a short-list of compounds which included benzene, cis-1,2-dichloroethene, trichloroethene, tetrachloroethene, and vinyl chloride.

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). The project chemist review included evaluations of sample collection, holding times, QC data (blanks and duplicates), data transcription, electronic data reporting, and calculations. With the exception of the items discussed below, results are interpreted to be usable as reported by the on-site laboratory. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected above the reported detection limit

A summary of the final on-site field sample data is presented in Appendix E, Table 1.1. Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

Groundwater Samples - Volatile Organic Compounds

<u>Blank Contamination</u>

The equipment blanks associated with all of the onsite VOC samples reported detections of vinyl chloride (6.9 µg/L and 12 µg/L). An action level was calculated at five times the highest detection reported in the blanks. The results for vinyl chloride in samples ATDCG2101801XF, ATDCG2201801XF, ATDCG02301801XF, ATGW00102901XF, ATGW00201801XF, ATGW00401701XF, ATGW00601701XF, ATGW00602801DF, ATGW00602801XF,

ATGW00702801XF, ATGW00802701XF, ATGW00901701XF, ATGW01002201XF, ATGW01102001XF, ARGW01301701XF, ATGW01302301XF, ATGW01401601XF, ATGW01402901XF, ATMW00101701XF, ATMW00401601XF, TREE-1, TREE-2, TREE-3, and TREE-4 were less than the action level and were qualified as non-detect (U).

On-site/Off-site Comparison

Split sample results obtained from the off-site laboratory were compared to the results of the on-site laboratory. Relative percent differences (RPDs) were calculated to determine how well the results correlate. Forty-nine water splits were collected.

At five of the forty-nine sample locations detections of benzene were reported by both the on-site and off-site laboratories. Three of the five locations had relative percent differences that were greater than the control limit of 30. The majority of the benzene results were reported as non-detect by both the on-site and off-site laboratories.

At twenty-five of the forty-nine sample locations detections of cis-1,2-dichloroethene were reported by both laboratories. Only five of the twenty-five locations had RPDs that were greater than the control limit of 30 which indicates that there was good agreement between the data sets for cis-1,2-dichloroethene.

At fifteen of forty-nine sample locations detections of tetrachloroethene were reported by both the on-site and off-site laboratories. At all fifteen locations, the relative percent differences were found to be greater than the control limit of 30. This indicates poor correlation between the on-site and off-site data results. The on-site laboratory reported higher results for detections that were greater than two times the reporting limit while the off-site laboratory reported higher results for detections that were less than the reporting limit. At several locations, trace concentrations of tetrachloroethene were reported by the off-site laboratory and were reported as non-detect by the on-site laboratory. This may be due to higher on-site detection limits.

At fifteen of the forty-nine sample locations, detections of trichloroethene were reported by both the on-site and off-site laboratories. At eleven of the fifteen locations, the RPDs were found to be outside the control limit of 30 which indicates poor correlation between onsite and off-site results. Again, results that were greater than the reporting limit tended to be reported as higher by the on-

site laboratory and results less than the reporting limit tended to be reported higher by the off-site laboratory.

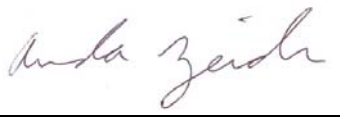
At eight of the forty-nine sample locations, detections of vinyl chloride were reported by both the on-site and off-site laboratories. At all eight locations the RPDs were found to be near or over 100 percent which indicates there was very poor correlation between the on-site and off-site data results. Also at all eight locations, the results reported by the on-site laboratory were significantly higher than the off-site laboratory. There were also several location where the off-site laboratory reported trace detections of the vinyl chloride when the on-site laboratory did not. This may be due to lower detection limits reported by the off-site laboratory.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2000. "Analytical Services Protocols"; June 2000.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

Data Validator: Amanda Zeidler

Signature  Date June 4, 2007

Appendix E
Table 1.1: Onsite VOC Results

	Lab Sample Id	ATDCG2101801XF		ATDCG2201801XF		ATDCG2301801XF		ATDCMW101801XF		ATDCMW202101XF		ATDCMW302101XF	
	Loc Name	GW-021		GW-022		GW-023		MW-101		MW-002		MW-003	
	Field Sample Id	ATDCG2101801XF		ATDCG2201801XF		ATDCG2301801XF		ATDCMW101801XF		ATDCMW202101XF		ATDCMW302101XF	
	Field Sample Date	11/9/2006		11/10/2006		11/10/2006		10/31/2006		11/10/2006		11/10/2006	
	Qc Code	FS		FS		FS		FS		FS		FS	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Benzene		1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene		180		50		52		5.7		88		19	
Tetrachloroethene		240		85		160		6.4		650		73	
Trichloroethene		1	U	1	U	18		8		37		1	U
Vinyl chloride		30	U	8.1	U	5.5	U	1	U	1	U	1	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed onsite by MACTEC for VOCs by EPA SOP #2109
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL

Appendix E
Table 1.1: Onsite VOC Results

	Lab Sample Id	ATDCMW401801XF		ATDCMW502001XF		ATDCW1001501XF		ATEB001XXX01XF		ATEB002XXX01XF		ATGW00101901DF	
	Loc Name	MW-004		MW-005		MW-010		QC		QC		GW-001	
	Field Sample Id	ATDCMW401801XF		ATDCMW502001XF		ATDCW1001501XF		ATEB001XXX01XF		ATEB002XXX01XF		ATGW00101901DF	
	Field Sample Date	11/9/2006		11/10/2006		11/10/2006		11/7/2006		11/7/2006		11/6/2006	
	Qc Code	FS		FS		FS		FS		FS		FD	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Benzene		1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene		32		1300		1	U	1	U	1	U	37	
Tetrachloroethene		3600		33		5.4		1	U	1	U	1	U
Trichloroethene		2.1		1	U	1	U	1	U	1	U	24	
Vinyl chloride		1	U	340		1	U	6.9	U	12	U	67	

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed onsite by MACTEC for VOCs by EPA SOP #2109
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL

Appendix E
Table 1.1: Onsite VOC Results

	Lab Sample Id	ATGW00101901XF		ATGW00102901XF		ATGW00201801XF		ATGW00301801XF		ATGW00401701XF		ATGW00501701XF	
	Loc Name	GW-001		GW-001		GW-002		GW-003		GW-004		GW-005	
	Field Sample Id	ATGW00101901XF		ATGW00102901XF		ATGW00201801XF		ATGW00301801XF		ATGW00401701XF		ATGW00501701XF	
	Field Sample Date	11/6/2006		11/6/2006		11/10/2006		11/10/2006		11/8/2006		11/7/2006	
	Qc Code	FS		FS		FS		FS		FS		FS	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Benzene		1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene		38		52		220		1	U	48		34	
Tetrachloroethene		1	U	2.1		6700		1	U	4		1.2	
Trichloroethene		24		13		2900		1	U	22		1	U
Vinyl chloride		67		46	U	34	U	1	U	14	U	65	

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed onsite by MACTEC for VOCs by EPA SOP #2109
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL

Appendix E
Table 1.1: Onsite VOC Results

	Lab Sample Id	ATGW00502801XF		ATGW00601701XF		ATGW00602801DF		ATGW00602801XF		ATGW00701601XF		ATGW00701701XF	
	Loc Name	GW-005		GW-006		GW-006		GW-006		GW-007		GW-007	
	Field Sample Id	ATGW00502801XF		ATGW00601701XF		ATGW00602801DF		ATGW00602801XF		ATGW00701601XF		ATGW00701701XF	
	Field Sample Date	11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/7/2006	
	Qc Code	FS		FS		FD		FS		FS		FS	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Benzene		1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene		76		1	U	1	U	1	U	1	U	1	U
Tetrachloroethene		1.5		1	U	1	U	1	U	1	U	1	U
Trichloroethene		2.5		1	U	1	U	1	U	1	U	1	U
Vinyl chloride		84		30	U	15	U	3.9	U	1	U	65	

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed onsite by MACTEC for VOCs by EPA SOP #2109
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL

Appendix E
Table 1.1: Onsite VOC Results

	Lab Sample Id	ATGW00702801XF		ATGW00802001XF		ATGW00802701XF		ATGW00901701XF		ATGW00902801XF		ATGW01002201XF	
	Loc Name	GW-007		GW-008		GW-008		GW-009		GW-009		GW-010	
	Field Sample Id	ATGW00702801XF		ATGW00802001XF		ATGW00802701XF		ATGW00901701XF		ATGW00902801XF		ATGW01002201XF	
	Field Sample Date	11/7/2006		11/6/2006		11/6/2006		11/7/2006		11/7/2006		11/6/2006	
	Qc Code	FS		FS		FS		FS		FS		FS	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Benzene		1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene		1	U	1	U	1	U	150		9.1		64	
Tetrachloroethene		1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene		1	U	1	U	1	U	11		1	U	1	U
Vinyl chloride		7.9	U	1	U	39	U	38	U	64		28	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed onsite by MACTEC for VOCs by EPA SOP #2109
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL

Appendix E
Table 1.1: Onsite VOC Results

	Lab Sample Id	ATGW01002901XF		ATGW01101701XF		ATGW01102001XF		ATGW01301701XF		ATGW01302301XF		ATGW01401601XF	
	Loc Name	GW-010		GW-011		GW-011		GW-013		GW-013		GW-014	
	Field Sample Id	ATGW01002901XF		ATGW01101701XF		ATGW01102001XF		ATGW01301701XF		ATGW01302301XF		ATGW01401601XF	
	Field Sample Date	11/6/2006		11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/7/2006	
	Qc Code	FS		FS		FS		FS		FS		FS	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Benzene		1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene		49		39		180		20		53		1	U
Tetrachloroethene		1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene		1	U	14		1.4		1	U	1	U	1	U
Vinyl chloride		76		1	U	35	U	15	U	8	U	20	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed onsite by MACTEC for VOCs by EPA SOP #2109
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL

Appendix E
Table 1.1: Onsite VOC Results

	Lab Sample Id	ATGW01402901XF		ATGW01501601XF		ATGW01801101XF		ATGW01901301XF		ATGW02002601XF		ATGW02003401XF	
	Loc Name	GW-014		GW-015		GW-018		GW-019		GW-020		GW-020	
	Field Sample Id	ATGW01402901XF		ATGW01501601XF		ATGW01801101XF		ATGW01901301XF		ATGW02002601XF		ATGW02003401XF	
	Field Sample Date	11/7/2006		11/8/2006		11/9/2006		11/9/2006		11/9/2006		11/9/2006	
	Qc Code	FS		FS		FS		FS		FS		FS	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Benzene		1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene		1.3		1	U	1	U	1	U	1	U	1	U
Tetrachloroethene		1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene		1	U	1	U	1	U	1	U	1	U	1	U
Vinyl chloride		25	U	1	U	1	U	1	U	1	U	130	

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed onsite by MACTEC for VOCs by EPA SOP #2109
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL

Appendix E
Table 1.1: Onsite VOC Results

	Lab Sample Id	ATMW00101701XF		ATMW001R1701XF		ATMW00201601XF		ATMW00301601XF		ATMW00401601XF		ATMW00501601XF	
	Loc Name	MW-001		MW-001		MW-002		MW-003		MW-004		MW-005	
	Field Sample Id	ATMW00101701XF		ATMW001R1701XF		ATMW00201601XF		ATMW00301601XF		ATMW00401601XF		ATMW00501601XF	
	Field Sample Date	11/7/2006		11/9/2006		11/7/2006		11/6/2006		11/6/2006		11/8/2006	
	Qc Code	FS		FS		FS		FS		FS		FS	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Benzene		1	U	91		1600		1	U	180		1	U
Cis-1,2-Dichloroethene		1	U	32		1	U	1	U	1	U	1	U
Tetrachloroethene		1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene		1	U	1	U	1	U	1	U	1	U	1	U
Vinyl chloride		14	U	300		2200		1	U	48	U	1	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed onsite by MACTEC for VOCs by EPA SOP #2109
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL

Appendix E
Table 1.1: Onsite VOC Results

	Lab Sample Id	ATMW00601601XF		ATMW00801601DF		ATMW00801601XF		ATMW00901701XF		TREE-1		TREE-2	
	Loc Name	MW-006		MW-008		MW-008		MW-009		TREE		TREE	
	Field Sample Id	ATMW00601601XF		ATMW00801601DF		ATMW00801601XF		ATMW00901701XF		TREE-1		TREE-2	
	Field Sample Date	11/7/2006		11/8/2006		11/8/2006		11/9/2006		11/6/2006		11/6/2006	
	Qc Code	FS		FD		FS		FS		FS		FS	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Benzene		65		1	U	1	U	15		1	U	1	U
Cis-1,2-Dichloroethene		360		1	U	1	U	49		1	U	1	U
Tetrachloroethene		1	U	1	U	1	U	3.3		1	U	1	U
Trichloroethene		1	U	2.3		3.5		1	U	1	U	1	U
Vinyl chloride		65		1	U	1	U	1	U	7.9	U	0.3	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed onsite by MACTEC for VOCs by EPA SOP #2109
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL

Appendix E
Table 1.1: Onsite VOC Results

	Lab Sample Id	TREE-3		TREE-4	
	Loc Name	TREE		TREE	
	Field Sample Id	TREE-3		TREE-4	
	Field Sample Date	11/6/2006		11/6/2006	
	Qc Code	FS		FS	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**
Benzene		1	U	1	U
Cis-1,2-Dichloroethene		1	U	1	U
Tetrachloroethene		1	U	1	U
Trichloroethene		1	U	1	U
Vinyl chloride		3.6	U	2.5	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed onsite by MACTEC for VOCs by EPA SOP #2109
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL

DATA USABILITY SUMMARY REPORT
NOVEMBER 2006 SAMPLING PROGRAM
ASSOCIATED SITE
REGION 8, NEW YORK

1.0 Introduction:

Water, soil, and soil vapor samples were collected at the Associated Cleaners site in from October through December 2006 and submitted for off-site laboratory analyses. Samples were analyzed by CHEMTECH in Mountainside, New Jersey. A listing of samples included in this investigation is presented in Table 1. Samples were analyzed for the following parameters:

- Soil Vapor: EPA Method TO-15 for VOCs
- Water: VOCs and SVOCs by CLP OLM04.2
- Soil: VOCs by CLP OLM04.2

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 1995; NYSDEC, 2000).

Data validation was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 1997) and USEPA Region II Guidelines (USEPA, 1993; USEPA, 1994) and the USEPA National Functional Guidelines (USEPA, 1999). Samples were reported in lab sample delivery groups (SDG) X5191, X5286, X5313, and X5403. Validation was completed by EDV, Inc. in Pittsburgh, Pennsylvania. Validation reports for each SDG are presented in Attachment 1. In addition, MACTEC validated SDG X5887 which is also included in this summary and the DUSR is presented in Attachment 1. The validation reports were reviewed by MACTEC and the reports were accepted as presented by EDV with the following modifications:

Sample ATGS00100701XX was analyzed at a dilution due to compounds that exceeded the calibration range of the instrument. The diluted methanol run reported results that were approximately fifty times higher than the results reported in the low level analytical run. Calculation checks and chromatograph reviews were completed which resulted in no errors being

found. Based on professional judgment, the results for tetrachloroethene and trichloroethene were reported from the methanol run while the remaining compounds were reported from the low level analytical run.

Results for 1,1-dichloroethene in a subset of samples were rejected due to a low laboratory control sample (LCS) recovery of 55 percent. Based on professional judgment and procedures in the USEPA National Functional Guidelines, these results were qualified estimated (UJ) in the final data set.

The relative percent difference between the matrix spike and matrix spike duplicate associated with sample ATGW01301701XX was greater than the control of 20 for acenapthene (22). The procedures in the USEPA National Functional Guidelines indicate that only the parent sample associated with the matrix spike should be qualified as estimated (UJ) and not all samples in the SDG.

Samples ATDCMW20210XX, ATDCMW401801XX, and ATDCMW502001XX required dilutions due to results that exceeded the calibration curve. These samples also had surrogate recoveries for toluene-d8 that were less than control limits. The samples were diluted and surrogate recoveries were found to be within the calibration range of the instrument. Based on professional judgment and the desire to meet project required detection limits, results from the original analytical run were reported with the exception of the compounds that exceeded the calibration range of the instrument. Results reported from the original analytical run in samples ATDCMW20210XX, ATDCMW401801XX, and ATDCMW502001XX were qualified as estimated (J/UJ).

With the exception of the items discussed in the validation reports in Attachment 1, results are interpreted to be usable as reported by the laboratory. A summary of final sample results is presented in Appendix D. The following qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit
J = concentration is estimated
UJ = target analyte is not detected at the reported detection limit and is estimated

Tentatively Identified Compounds

Tentatively identified compounds (TICs) were reported in accordance with the CLP methods if detected. A summary of detected TICs is provided in Appendix E Table 1.5. The lab reported aldol condensation products and the VOC target compound toluene, o-xylene, tetrachloroethene in a subset of SVOC samples and these were rejected and deleted from the final data set. Only samples that reported TICs are included in Table 1.5.

TABLE 1

SUMMARY OF SAMPLES

SDG	Field Sample ID	Lab Sample ID	Method	Sample Date	Matrix	QC Code
X5191	ATMW00501601XX	X5191-01	OLM04.2_SVOA	11/8/2006	GW	FS
X5191	ATMW00801601XX	X5191-02	OLM04.2_SVOA	11/8/2006	GW	FS
X5191	ATMW00801601XD	X5191-03	OLM04.2_SVOA	11/8/2006	GW	FD
X5191	ATGW00401701XX	X5191-04	OLM04.2_SVOA	11/8/2006	GW	FS
X5286	ATMW00301601XX	X5286-01	OLM04.2_SVOA	11/6/2006	GW	FS
X5286	ATMW00401601XX	X5286-02	OLM04.2_SVOA	11/6/2006	GW	FS
X5313	ATMW00101701XX	X5313-01	OLM04.2_SVOA	11/7/2006	GW	FS
X5313	ATMW00201601XX	X5313-02	OLM04.2_SVOA	11/7/2006	GW	FS
X5313	ATMW00601601XX	X5313-03	OLM04.2_SVOA	11/7/2006	GW	FS
X5313	ATMW00701601XX	X5313-04	OLM04.2_SVOA	11/7/2006	GW	FS
X5313	ATGW00901701XX	X5313-14	OLM04.2_SVOA	11/7/2006	GW	FS
X5313	ATGW01301701XX	X5313-18	OLM04.2_SVOA	11/7/2006	GW	FS
X5403	ATMW00901701XX	X5403-05	OLM04.2_SVOA	11/9/2006	GW	FS
X5403	ATGW02002601XX	X5403-12	OLM04.2_SVOA	11/9/2006	GW	FS
X5403	ATMW01R01701XX	X5403-19	OLM04.2_SVOA	11/9/2006	GW	FS
X5191	ATMW00501601XX	X5191-01	OLM04.2_VOA	11/8/2006	GW	FS
X5191	ATMW00801601XX	X5191-02	OLM04.2_VOA	11/8/2006	GW	FS
X5191	ATMW00801601XD	X5191-03	OLM04.2_VOA	11/8/2006	GW	FD
X5191	ATGW00401701XX	X5191-04	OLM04.2_VOA	11/8/2006	GW	FS
X5191	ATGW01501601XX	X5191-05	OLM04.2_VOA	11/8/2006	GW	FS

X5191	ATTB003XXX01XX	X5191-08	OLM04.2_VOA	11/8/2006	BW	TB
X5202	ATDCMW101801XX	X5202-01	OLM04.2_VOA	10/31/2006	GW	FS
X5286	ATMW00301601XX	X5286-01	OLM04.2_VOA	11/6/2006	GW	FS
X5286	ATMW00401601XX	X5286-02	OLM04.2_VOA	11/6/2006	GW	FS
X5286	ATGS00100701XX	X5286-03	OLM04.2_VOA	11/6/2006	SOIL	FS
X5286	ATGS00800801XX	X5286-06	OLM04.2_VOA	11/6/2006	SOIL	FS
X5286	ATGW00102001XX	X5286-07	OLM04.2_VOA	11/6/2006	GW	FS
X5286	ATGW00102001XD	X5286-08	OLM04.2_VOA	11/6/2006	GW	FD
X5286	ATGW00102901XX	X5286-09	OLM04.2_VOA	11/6/2006	GW	FS
X5286	ATGW00802001XX	X5286-10	OLM04.2_VOA	11/6/2006	GW	FS
X5286	ATGW00802701XX	X5286-11	OLM04.2_VOA	11/6/2006	GW	FS
X5286	ATGW01002201XX	X5286-12	OLM04.2_VOA	11/6/2006	GW	FS
X5286	ATGW01002901XX	X5286-13	OLM04.2_VOA	11/6/2006	GW	FS
X5286	ATTB001XXX01XX	X5286-14	OLM04.2_VOA	11/6/2006	BW	TB
X5313	ATMW00101701XX	X5313-01	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATMW00201601XX	X5313-02	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATMW00601601XX	X5313-03	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATMW00701601XX	X5313-04	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATEB001XXX01XX	X5313-05	OLM04.2_VOA	11/7/2006	BW	EB
X5313	ATGW00501701XX	X5313-06	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW00502801XX	X5313-07	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATEB002XXX01XX	X5313-08	OLM04.2_VOA	11/7/2006	BW	EB
X5313	ATGW00601701XX	X5313-09	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW00602801XD	X5313-10	OLM04.2_VOA	11/7/2006	GW	FD
X5313	ATGW00602801XX	X5313-11	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW00701701XX	X5313-12	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW00702801XX	X5313-13	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW00901701XX	X5313-14	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW00902801XX	X5313-15	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW01101701XX	X5313-16	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW01102801XX	X5313-17	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW01301701XX	X5313-18	OLM04.2_VOA	11/7/2006	GW	FS

X5313	ATGW01302301XX	X5313-19	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW01401601XX	X5313-20	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATGW01402901XX	X5313-21	OLM04.2_VOA	11/7/2006	GW	FS
X5313	ATTB002XXX01XX	X5313-22	OLM04.2_VOA	11/7/2006	BW	TB
X5403	ATDCMW202101XX	X5403-01	OLM04.2_VOA	11/10/2006	GW	FS
X5403	ATDCMW302101XX	X5403-02	OLM04.2_VOA	11/10/2006	GW	FS
X5403	ATDCMW401801XX	X5403-03	OLM04.2_VOA	11/9/2006	GW	FS
X5403	ATDCMW502001XX	X5403-04	OLM04.2_VOA	11/10/2006	GW	FS
X5403	ATMW00901701XX	X5403-05	OLM04.2_VOA	11/9/2006	GW	FS
X5403	ATGW00201801XX	X5403-06	OLM04.2_VOA	11/10/2006	GW	FS
X5403	ATGW00301801XX	X5403-07	OLM04.2_VOA	11/10/2006	GW	FS
X5403	ATGW01801101XX	X5403-08	OLM04.2_VOA	11/9/2006	GW	FS
X5403	ATGW01901301XX	X5403-11	OLM04.2_VOA	11/9/2006	GW	FS
X5403	ATGW02002601XX	X5403-12	OLM04.2_VOA	11/9/2006	GW	FS
X5403	ATGW02003401XX	X5403-13	OLM04.2_VOA	11/9/2006	GW	FS
X5403	ATDCG2101801XX	X5403-15	OLM04.2_VOA	11/9/2006	GW	FS
X5403	ATDCW1001501XX	X5403-16	OLM04.2_VOA	11/10/2006	GW	FS
X5403	ATDCG2201801XX	X5403-17	OLM04.2_VOA	11/10/2006	GW	FS
X5403	ATDCG2301801XX	X5403-18	OLM04.2_VOA	11/10/2006	GW	FS
X5403	ATMW01R01701XX	X5403-19	OLM04.2_VOA	11/9/2006	GW	FS
X5544	ATTB005XXX01XX	X5544-01	OLM04.2_VOA	11/17/2006	BW	TB
X5544	ATGW02401601XX	X5544-02	OLM04.2_VOA	11/17/2006	GW	FS
X5544	ATGW02501601XX	X5544-03	OLM04.2_VOA	11/17/2006	GW	FS
X5544	ATGW02501601XD	X5544-04	OLM04.2_VOA	11/17/2006	GW	FD
X5544	ATGW02601601XX	X5544-05	OLM04.2_VOA	11/17/2006	GW	FS
X5544	ATGW02701501XX	X5544-06	OLM04.2_VOA	11/17/2006	GW	FS
X5544	ATGW02801401XX	X5544-09	OLM04.2_VOA	11/17/2006	GW	FS
X5544	ATGW02901601XX	X5544-10	OLM04.2_VOA	11/17/2006	GW	FS
X5544	ATGW03001401XX	X5544-11	OLM04.2_VOA	11/17/2006	GW	FS
X5544	ATGW03001401XD	X5544-12	OLM04.2_VOA	11/17/2006	GW	FD
X5191	ATGV00101201XX	X5191-06	TO-15	11/8/2006	AIR	FS
X5191	ATGV00201001XX	X5191-07	TO-15	11/8/2006	AIR	FS

X5403	ATGV00301201XX	X5403-14	TO-15	11/9/2006	AIR	FS
X5887	ATSV00100101XX	X5887-1	TO-15	12/19/2006	AIR	FS

Reference:

New York State Department of Environmental Conservation (NYSDEC), 1995. "Analytical Services Protocols"; 10/95 Edition; October 1995.

New York State Department of Environmental Conservation (NYSDEC), 1997. "Guidance for the Development of Data Usability Reports"; Division of Environmental Remediation; September 1997.

U.S. Environmental Protection Agency (USEPA), 1993. "USEPA Region II Checklist SOP HW-15"; Revision 2; May 1993.

U.S. Environmental Protection Agency (USEPA), 1994. "USEPA Region II Checklist SOP HW-18"; Revision 0; August 1994.

U.S. Environmental Protection Agency (USEPA), 1999. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review"; Office of Emergency and Remedial Response; EPA-540/R-99/008; October 1999.

Data Validation Review: Amanda Zeidler

Signature: Amanda Zeidler Date: 3/29/07

Quality Assurance Officer: Chris Ricardi, NRCC-EAC

Chris Ricardi Date: 3/30/07

ATTACHMENT 1

DATA VALIDATION REPORTS

SDG X5191

SDG X5286

SDG X5313

SDG X5403

SDG X5202 & X5544

SDG X5887

DATA VALIDATION REPORT

Volatile & Semi-volatile Analyses

SDG No. X5191
Sampling Date: November 8, 2006

Submitted to:

MACTEC, Inc.,
511 Congress Street
Portland, ME 04112
207-775-5401

Submitted by:

EDV, Inc.,
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

January 16, 2006

Site:	Associated Textiles/NYSDEC
Client:	MACTEC, Inc.
Analytical Laboratory:	Chemtech 284 Sheffield Street Mountainside, NJ 07092
Sample Delivery Group (SDG):	X5191
Sampling Date:	November 8, 2006
Analyses:	Volatile
Analytical Method:	CLP OLM 4.2 and USEPA TO-15

Summary of Data Validation:

The adherence of laboratory analytical performance to CLP and USEPA TO-15 Analytical Specifications were evaluated during the data validation process. The USEPA Region II's data validation SOP Checklists (SOP HW-18 Rev 0, August 1994**,** SOP, HW-15 Rev 2, May 1993) and the National Functional Guidelines for Organic Data Review (October 1999), were used as guidelines for data qualifications.

Volatile: 1,1-Dichloroethene was rejected in samples ATMW00801601XX and ATGW01501601XX due to LCS recovery issues. Several other compounds were qualified as estimated due to calibration, surrogate and or LCS issues. Some chloroform results were qualified as non-detects due to blank contamination.

Semi-volatile: Hexachlorocyclopentadiene and 2, 4-dinitrophenol results were qualified as estimated due to calibration issues. Some other compounds were qualified as estimated due to internal standard area issues.

The sample qualifiers applied by the data validator are in section 15.0 and Attachment A- Form 1s. The detailed discussions can be found in the report.

Table of Contents

Table of Contents (Continued)

List of Appendices

1.0 Sample Identifications

The following table summarizes sample IDENTIFICATIONS, matrix of each sample and analyses present in the data package for each sample.

Client Sample ID	Matrix	Volatile	TO-15	Semi-volatile
SDG X5191				
ATMW00501601XX	WATER	X	–	X
ATMW00801601XX	WATER	X	–	X
ATMW00801601XD	WATER	X	–	X
ATGW00401701XX	WATER	X	–	X
ATGW01501601XX	WATER	X	–	–
ATGV00101201XX	AIR	–	X	–
ATGV00201001XX	AIR	–	X	–
ATTB003XXX01XX	WATER	X	–	–
QC sample ID	**Matrix**			
ATGV00101201XXMS	AIR	–	X	–
ATGV00101201XXMSD	AIR	–	X	–
LCS	WATER	X	–	X
LCSD	WATER	X	–	X

2.0 Completeness Checklist

The following table identifies the summary form information and raw data found in the data package. Form numbers shown in parentheses refer to the current U.S. EPA CLP SOW equivalent reporting of results in an alternate summary format that has been determined to be acceptable. Analyses in this data package were performed in accordance with USEPA CLP and TO-15 Methods.

Completeness Checklist

X	Case Narrative
X	Chain of Custody Records/Traffic Reports/Tracking Records
X	Preservation Information
X	Sample Cross Reference with Unique Identifiers
X	Sample Results Summary Form (Form 1/Form 1-TIC)
X	CLP Flagging used on Results Summary
X	SMC/Surrogate Results Summary (Form 2)
NR	Matrix Spike/Matrix Spike Duplicate Results Summary (Form 3)
X	Laboratory Control Sample (LCS)/ Blank Spike Results Summary (Form 3)
NR	Control Charts
X	Method/Preparation Blank Results Summary (Form 4)
X	Volatile Initial Calibration Summary (Forms 6)
X	Volatile Continuing Calibration Summary (Form 7)
X	Volatile Analytical Sequence (Form 8)
X	Internal Standard Area Summary (Form X11)
X	Raw Data (incl. IS, Surr/SMC, RT, quant. Reports, etc.)
X	Samples
X	Initial Calibration
NR	Clean-ups
X	Continuing Calibration
NR	Instrument Blanks
X	Preparation Blanks/Method Blanks
O	Other Blanks
X	LCS/Blank Spike
X	Matrix Spikes/Matrix Spike Duplicates
NR	Matrix Duplicates/Replicates
O	Field Blanks – Trip Blank
X	Field Duplicates
X	Extraction Log Benchsheets
X	Instrument Run Logs
X	Sample Descriptions
X	Legible Pages
X	Pages in Package Numbered and in Sequence
X	Electronic Data Deliverable (EDD)

X: Included in original Data Package
NR: Not Required
O: Not Included and/or Not Available
RS: Provided as a Resubmission
X/RS: Incomplete in original data package, completed as a resubmission

3.0 Detection Limits

All Contract Required Detection Limits (CRDLs) were met.

4.0 Holding Time

Holding times were acceptable.

4.1 Sample Preservation

Samples were appropriately preserved.

4.2 Percent Moisture

Percent moisture is not applicable.

4.3 Chain of Custody Record

Chain of Custody Record was present.

5.0 Calibration Quality Control

5.1 Initial Calibration

Air samples-cyclohexane-31% and 4-ethyl toluene-31% recovery exceeded the 30 %RSD criterion. All results were qualified as estimated due to this anomaly.

5.2 Continuing Calibration (CCAL)

VOA: The following compounds exceeded the 25% QC criterion;

Compound	**%D-11/18/06**
Trichlorofluoromethane	27.2

SVOA: For water samples the following %D criteria were exceeded;

Compound	**%D-11/29/06 (1)**	**%D-11/29/06 (2)**
Hexachlorocyclopentadiene	-	31.6
2,4-dinitrophenol	27.4	28.4

6.0 Blanks Quality Control

VOA Method blank reported acetone contamination. Qualifications were made based on trip blank contamination.

7.0 Surrogate Recoveries

VOA: ATMW00801601XD-85% reported recoveries below 88-100% QC limits. All compounds were qualified as estimated.

8.0 Accuracy

8.1 Laboratory Control Samples (LCS)/Blank Spikes

TO-15-LCS recovery for 4 ethyl toluene-140% and 1, 2, 4-trichlorobenzene-136% were above the required 65-135% QC limits.

VOA: Recovery for 1,1-dichloroethene-55% was below the required 70-145% QC limits. This resulted in this compound being rejected in samples ATMW00801601XX and ATGW01501601XX.

8.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

8.2.1 Frequency

Frequency was met.

8.2.2 Recovery

Recoveries are acceptable.

9.0 Precision

9.1 Matrix Spike Duplicates

The results were acceptable.

9.2 Matrix Duplicate

RPDs were acceptable.

10.0 Field QC

10.1 Field Blanks/Rinse Blanks

There were no field blanks associated with this SDG.

10.2 Trip Blanks

Trip blanks reported acetone and chloroform contamination. All detected results for these compounds were qualified as non-detects due to this anomaly.

10.3 Field Duplicate

Sample ATMW00801601XD was presented as a field duplicate. The original sample is identified as ATMW00801601XX. RPDs are calculated when both original and duplicate report detects. RPDs were acceptable.

11.0 Internal Standards (IS)

11.1 IS Area Counts

IS area counts are acceptable.

11.2 Retention Time (RT)

All RTs were within the method accepted criteria.

12.0 Target Compound Identification

All target compounds identification is acceptable.

12.1 Tentatively Identified Compounds (TICs)

SVOA: Some TICs were rejected since they are volatile target compounds.

13.0 Calculations and Transcription

Raw data were accurately transcribed to summary data sheets.

14.0 Additional Comments

2, 2, 4-Trimethylpentane in sample RCGV00101201XX was qualified as estimated "J" due to calibration range exceedance. The original analysis was performed at an elevated CRDL (10X). The sample was reanalyzed at 98X dilution in which 2, 2, 4-trimethylpentane was reported as a non-detect. Based on professional judgment and technical information the validator determined that the compound was present in the sample, but an accurate concentration was not attainable at 10X dilution, thus an estimated concentration.

15.0 Data Qualifier Table

Volatile

Sample Identification	Compound	Qualifier	Section Reference
ATGW00401701XX ATMW00501601XX	Trichlorofluoromethane	UJ	5.2
ATMW00501601XX ATMW01501601XX	Chloroform	U	10.2
ATMW01501601XX, ATMW00801601XD	1,1-Dichloroethene	R	8.1
ATMW00801601XD	Ethyl benzene Styrene Chloromethane Chloroethane Vinyl chloride Methylene chloride Carbon disulfide Bromoform Bromodichloromethane 1,1-Dichloroethane Trichlorofluoromethane Dichlorodifluoromethane 1,1,2-Trichloro-1,2,2-Trifluoroethane 1,2-Dichloropropane 2-Butanone 1,1,2-Trichloroethane Acetic acid, methyl ester 1,1,2,2-Tetrachloroethane o-Xylene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane Isopropylbenzene Xylene, m/p cis-1,3-Dichloropropene trans-1,3-Dichloropropene 1,4-Dichlorobenzene 1,2-Dibromoethane 1,2-Dichloroethane 4-Methyl-2-pentanone Methyl cyclohexane Toluene Chlorobenzene Cyclohexane 1,2,4-Trichlorobenzene Chlorodibromomethane Tetrachloroethene	UJ	7.0

Sample Identification	Compound	Qualifier	Section Reference
	trans-1,2-Dichloroethene 1,3-Dichlorobenzene Carbon tetrachloride 2-Hexanone Acetone Chloroform Benzene 1,1,1-Trichloroethane Bromomethane		
ATMW00801601XD	Methyl tertbutyl Ether	J	7.0
ATGV00101201XX	Cyclohexane	UJ	5.1
	4-Ethyl toluene, 1,2,4-trichlorobenzene	J	5.1/8.1
ATGV00201001XX	Cyclohexane	J	5.1/8.1
	4-Ethyl toluene	UJ	5.1/8.1

Semi-volatile

Sample Identification	Compound	Qualifier	Section Reference
ATGW00801601XX ATMW00501601XX, ATGW00401701XX ATGW00801601XD	2,4-Dinitrophenol	UJ	5.2
ATGW00801601XD ATGW00401701XX	Hexachlorocyclopentadiene	UJ	5.2

DATA VALIDATION REPORT

Volatile & Semi-volatile Analyses

SDG No. X5286
Sampling Date: November 6, 2006

Submitted to:

MACTEC, Inc.,
511 Congress Street
Portland, ME 04112
207-775-5401

Submitted by:

EDV, Inc.,
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

January 16, 2006

Site:	Associated Textiles/NYSDEC
Client:	MACTEC, Inc.
Analytical Laboratory:	Chemtech 284 Sheffield Street Mountainside, NJ 07092
Sample Delivery Group (SDG):	X5286
Sampling Date:	November 6, 2006
Analyses:	Volatile and semi-volatile
Analytical Method:	CLP OLM 4.2

Summary of Data Validation:

The adherence of laboratory analytical performance to CLP Analytical Specifications was evaluated during the data validation process. The USEPA Region II's data validation SOP Checklists (SOP HW-18 Rev 0, August 1994**,** SOP, HW-15 Rev 2, May 1993) and the National Functional Guidelines for Organic Data Review (October 1999), were used as guidelines for data qualifications.

Volatile: Some methylene chloride results were qualified as non-detects due to blank contamination.. Some compounds were qualified as estimated due to calibration issues. Several compounds were qualified as estimated due to surrogate recovery issues. Several other compounds were qualified as estimated due to internal standard area issues.

Semi-volatile: 2, 4-Dinitrophenol was qualified as estimated due to calibration issues. One bis (2-ethyl hexyl) phthalate results were qualified as non-detects due to method blank contamination.

The sample qualifiers applied by the data validator are in section 15.0 and Attachment A- Form 1s. The detailed discussions can be found in the report.

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List of Appendices

1.0 Sample Identifications

The following table summarizes sample IDENTIFICATIONS, matrix of each sample and analyses present in the data package for each sample.

Client Sample ID	Matrix	Volatile	Semi-volatile
SDG X5286			
ATMW00301601XX	WATER	X	X
ATMW00401601XX.	WATER	X	X
ATGS00100701XX	SOIL	X	–
ATGS00800801XX	SOIL	X	–
ATGW00102001XX	WATER	X	–
ATGW00102001XD	WATER	X	–
ATGW00102901XX	WATER	X	–
ATGW00802001XX	WATER	X	–
ATGW00802701XX	WATER	X	–
ATGW01002201XX	WATER	X	–
ATGW01002901XX	WATER	X	–
ATTB001XXX01XX	WATER	X	–
QC sample ID	**Matrix**		
ATGS00800801XXMS	SOIL	X	–
ATGS00800801XXMSD	SOIL	X	–
LCS	WATER	–	X
LCSD	WATER	–	X

2.0 Completeness Checklist

The following table identifies the summary form information and raw data found in the data package. Form numbers shown in parentheses refer to the current U.S. EPA CLP SOW equivalent reporting of results in an alternate summary format that has been determined to be acceptable. Analyses in this data package were performed in accordance with USEPA CLP Methods.

Completeness Checklist

X	Case Narrative
X	Chain of Custody Records/Traffic Reports/Tracking Records
X	Preservation Information
X	Sample Cross Reference with Unique Identifiers
X	Sample Results Summary Form (Form 1/Form 1-TIC)
X	CLP Flagging used on Results Summary
X	SMC/Surrogate Results Summary (Form 2)
NR	Matrix Spike/Matrix Spike Duplicate Results Summary (Form 3)
X	Laboratory Control Sample (LCS)/ Blank Spike Results Summary (Form 3)
NR	Control Charts
X	Method/Preparation Blank Results Summary (Form 4)
X	Volatile Initial Calibration Summary (Forms 6)
X	Volatile Continuing Calibration Summary (Form 7)
X	Volatile Analytical Sequence (Form 8)
X	Internal Standard Area Summary (Form X11)
X	Raw Data (incl. IS, Surr/SMC, RT, quant. Reports, etc.)
X	Samples
X	Initial Calibration
NR	Clean-ups
X	Continuing Calibration
NR	Instrument Blanks
X	Preparation Blanks/Method Blanks
O	Other Blanks
X	LCS/Blank Spike
X	Matrix Spikes/Matrix Spike Duplicates
NR	Matrix Duplicates/Replicates
O	Field Blanks – Trip Blank
X	Field Duplicates
X	Extraction Log Benchsheets
X	Instrument Run Logs
X	Sample Descriptions
X	Legible Pages
X	Pages in Package Numbered and in Sequence
X	Electronic Data Deliverable (EDD)

X: Included in original Data Package
NR: Not Required
O: Not Included and/or Not Available
RS: Provided as a Resubmission
X/RS: Incomplete in original data package, completed as a resubmission

3.0 Detection Limits

All Contract Required Detection Limits (CRDLs) were met.

4.0 Holding Time

Holding times were acceptable.

4.1 Sample Preservation

Samples were appropriately preserved.

4.2 Percent Moisture

Percent moisture results were acceptable.

4.3 Chain of Custody Record

Chain of Custody Record was present.

5.0 Calibration Quality Control

5.1 Initial Calibration

The ICAL is acceptable.

5.2 Continuing Calibration (CCAL)

VOA: The following compounds exceed the 25% QC criterion;

Compound	**%D-11/15/06**
1,1,2- Trichlorofluoromethane	27
1,1-Dichloroethene	35

SVOA: The following compounds exceed the 25% QC criterion;

Compound	**%D-11/23/06**
2,4-dinitrophenol	37.4

6.0 Blanks Quality Control

VOA: Method blank reported acetone and methylene chloride contamination. All affected detected results for these compounds were qualified as non-detects due to this anomaly. See also Section 10.2.

SVOA: Method blank reported bis (2-ethyl hexyl) phthalate contamination at 3.1µg/L. This resulted in associated detected results for this compound being qualified as a non-detect at CRDL.

7.0 Surrogate Recoveries

Several surrogate recoveries were outside their required QC limits and this resulted in qualification of some sample results as estimated. See Section 15.0.

8.0 Accuracy

8.1 Laboratory Control Samples (LCS)/Blank Spikes

LCS recoveries were acceptable.

8.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

8.2.1 Frequency

Frequency was met

8.2.2 Recovery

Recoveries were acceptable.

9.0 Precision

9.1 Matrix Spike Duplicates

The results were acceptable.

9.2 Matrix Duplicate

RPDs were acceptable.

10.0 Field QC

10.1 Field Blanks/Rinse Blanks

There were no field blanks associated with this SDG.

10.2 Trip Blanks

Trip blanks reported low levels of acetone and methylene contamination. All affected associated compounds were qualified as non-detects at CRDL.

10.3 Field Duplicate

Sample ATGW00102001XD was presented as a field duplicate. The original sample is identified as ATGW00102001XX. RPDs are calculated when both original and duplicate report detects. RPDs were acceptable.

11.0 Internal Standards (IS)

11.1 IS Area Counts

VOA: IS area count for 1,4-difluorobenzene in sample ATGW01002201XXRE was below the required QC limits. All affected samples were qualified as estimated due to this anomaly.

11.2 Retention Time (RT)

All RTs were within the method accepted criteria.

12.0 Target Compound Identification

All target compounds identification is acceptable.

12.1 Tentatively Identified Compounds (TICs)

TICs were acceptable.

13.0 Calculations and Transcription

Raw data were accurately transcribed to summary data sheets.

14.0 Additional Comments

The laboratory experienced severe difficulty performing on some several groundwater samples and on the LCS. These samples reported low surrogate recoveries and upon reanalysis they reported high surrogate recoveries. This is indicative of a systematic problem with the laboratory.

15.0 Data Qualifier Table

Volatile

Sample Identification	Compound	Qualifier	Section Reference
ATMW00401601XX	Cyclohexane, methyl cyclohexane, benzene	J	7.0
ATGW00102001XX, ATGW00102001XD ATGW00102901XX ATGW00802001XXRE ATGW00802701XX ATGW01002201XXRE ATGW01002901XXRE	1,1,2-Trichlorotrifluoroethane, 1,1-dichloroethene	UJ	5.2
ATGS00800801XX, ATGS00100701XX	Methylene chloride	U	6.0
ATGW00102001XD, ATGW01002901XXRE	Cis-1,2-dichloroethene, trichloroethene	J	7.0
ATMW00401601XX	Acetone	U	10.2
ATGW01002201XXRE	2-Butanone, carbon tetrachloride, 1,1,1-trichloroethane, benzene, 1,2-dichloroethane,, 1,2-dichloropropane, Bromodichloromethane, trans-1,3-dichloropropene, cis-1,3-dichloropropene, 1,1,2-trichloroethane, dibromochloromethane, 1,2-dibromothane, bromoform	UJ	11.1

Semi-volatile

Sample Identification	Compound	Qualifier	Section Reference
ATMW00301601XX,	2,4-Dinitrophenol,	UJ	5.2
ATMW00401601XX			
ATMW00301601XX	Bis (2-ethyl hexyl) phthalate	U	6.0

DATA VALIDATION REPORT

Volatile & Semi-volatile Analyses

SDG No. X5313
Sampling Date: November 7, 2006

Submitted to:

MACTEC, Inc.,
511 Congress Street
Portland, ME 04112
207-775-5401

Submitted by:

EDV, Inc.,
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

January 16, 2006

Site:	Associated Textiles/NYSDEC
Client:	MACTEC, Inc.
Analytical Laboratory:	Chemtech 284 Sheffield Street Mountainside, NJ 07092
Sample Delivery Group (SDG):	X5313
Sampling Date:	November 7, 2006
Analyses:	Volatile and semi-volatile
Analytical Method:	CLP OLM 4.2 and USEPA TO-15

Summary of Data Validation:

The adherence of laboratory analytical performance to CLP Analytical Specifications was evaluated during the data validation process. The USEPA Region II's data validation SOP Checklists (SOP HW-18 Rev 0, August 1994**,** SOP, HW-15 Rev 2, May 1993) and the National Functional Guidelines for Organic Data Review (October 1999), were used as guidelines for data qualifications.

Volatile: Bromomethane and trichlorofluoromethane results in some samples were qualified as estimated due to calibration exceedance. All compounds in sample ATGW00501701XX were qualified as estimated due to surrogate recovery issues. Tert methylethyl ether and cis-1,2-dichloroethene results in some samples were qualified as estimated due to surrogate recovery issues.

Semi-volatile: Bis (2-ethyl hexyl) phthalate in some samples were qualified as non-detects due to method blank contamination. Acenaphthene results in all samples were qualified as estimated due to precision issues.

The sample qualifiers applied by the data validator are in section 15.0 and Attachment A- Form 1s. The detailed discussions can be found in the report.

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List of Appendices

1.0 Sample Identifications

The following table summarizes sample IDENTIFICATIONS, matrix of each sample and analyses present in the data package for each sample.

Client Sample ID	Matrix	Volatile	Semi-volatile
SDG X5313			
ATMW00101701XX	WATER	X	X
ATMW00201601XX	WATER	X	X
ATMW00601601XX	WATER	X	X
ATMW00701601XX	WATER	X	X
ATEB001XXX01XX	WATER	X	–
ATGW00501701XX	WATER	X	–
ATGW00502801XX	WATER	X	–
ATEB002XXX01XX	WATER	X	–
ATGW00601701XX	WATER	X	–
ATGW00602801XD	WATER	X	–
ATGW00602801XX	WATER	X	–
ATGW00701701XX	WATER	X	–
ATGW00702801XX	WATER	X	–
ATGW00901701XX	WATER	X	X
ATGW00902801XX	WATER	X	–
ATGW01101701XX	WATER	X	–
ATGW01102801XX	WATER	X	–
ATGW01301701XX	WATER	X	X
ATGW01302301XX	WATER	X	–
ATGW01401601XX	WATER	X	–
ATGW01402901XX	WATER	X	–
ATTB002XXX01XX	WATER	X	–
QC sample ID	**Matrix**		
LCS	WATER	X	X
LCSD	WATER	X	–
ATGW01301701XXMS	WATER	–	X
ATGW01301701XXMSD	WATER	–	X

2.0 Completeness Checklist

The following table identifies the summary form information and raw data found in the data package. Form numbers shown in parentheses refer to the current U.S. EPA CLP SOW equivalent reporting of results in an alternate summary format that has been determined to be acceptable. Analyses in this data package were performed in accordance with USEPA CLP Method.

Completeness Checklist

X	Case Narrative
X	Chain of Custody Records/Traffic Reports/Tracking Records
X	Preservation Information
X	Sample Cross Reference with Unique Identifiers
X	Sample Results Summary Form (Form 1/Form 1-TIC)
X	CLP Flagging used on Results Summary
X	SMC/Surrogate Results Summary (Form 2)
NR	Matrix Spike/Matrix Spike Duplicate Results Summary (Form 3)
X	Laboratory Control Sample (LCS)/ Blank Spike Results Summary (Form 3)
NR	Control Charts
X	Method/Preparation Blank Results Summary (Form 4)
X	Volatile Initial Calibration Summary (Forms 6)
X	Volatile Continuing Calibration Summary (Form 7)
X	Volatile Analytical Sequence (Form 8)
X	Internal Standard Area Summary (Form X11)
X	Raw Data (incl. IS, Surr/SMC, RT, quant. Reports, etc.)
X	Samples
X	Initial Calibration
NR	Clean-ups
X	Continuing Calibration
NR	Instrument Blanks
X	Preparation Blanks/Method Blanks
O	Other Blanks
X	LCS/Blank Spike
X	Matrix Spikes/Matrix Spike Duplicates
NR	Matrix Duplicates/Replicates
O	Field Blanks – Trip Blank
X	Field Duplicates
X	Extraction Log Benchsheets
X	Instrument Run Logs
X	Sample Descriptions
X	Legible Pages
X	Pages in Package Numbered and in Sequence
X	Electronic Data Deliverable (EDD)

X: Included in original Data Package
NR: Not Required
O: Not Included and/or Not Available
RS: Provided as a Resubmission
X/RS: Incomplete in original data package, completed as a resubmission

3.0 Detection Limits

All Contract Required Detection Limits (CRDLs) were met.

4.0 Holding Time

Holding times were acceptable.

4.1 Sample Preservation

Samples were appropriately preserved.

4.2 Percent Moisture

Percent moisture is not applicable.

4.3 Chain of Custody Record

Chain of Custody Record was present.

5.0 Calibration Quality Control

5.1 Initial Calibration

ICAL was acceptable.

5.2 Continuing Calibration (CCAL)

VOA: The following %D criteria were exceeded;

Compound	%D-110/16/06	%D-11/18/06
Bromomethane	32	-
Trichlorofluoromethane	-	27.2

All associated results were qualified as estimated "UJ" to indicate they are estimated due to this anomaly.

6.0 Blanks Quality Control

VOA: Method blank reported acetone contamination. There were no detects thus no qualification was necessary.

SVOA: Method blank reported bis (2-ethyl hexyl) phthalate contamination at 3.1µg/L. This resulted in associated detected results for this compound being qualified as a non-detect at CRDL.

7.0 Surrogate Recoveries

VOA: Several surrogate recoveries were outside their required QC limits and this resulted in some sample results being qualified as estimated. See Section 15.0.

8.0 Accuracy

8.1 Laboratory Control Samples (LCS)/Blank Spikes

LCS recoveries were acceptable.

8.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

8.2.1 Frequency

Frequency was met

8.2.2 Recovery

Recoveries were acceptable.

9.0 Precision

9.1 Matrix Spike Duplicates

SVOA-RPD for acenaphthene-22% was above the required QC limits of 20%. This resulted in this compound in all samples being qualified as estimated.

9.2 Matrix Duplicate

RPDs were acceptable.

10.0 Field QC

10.1 Field Blanks/Rinse Blanks

Rinse blank reported acetone and chloroform contamination. Affected associated samples were qualified as non-detects.

10.2 Trip Blanks

Trip blanks reported acetone and methylene chloride contamination. Affected associated samples were qualified as non-detects.

10.3 Field Duplicate

Sample ATGW00602801XD was presented as a field duplicate. The original sample is identified as ATGW00602801XX. RPDs are calculated when both original and duplicate report detects. RPDs were acceptable.

11.0 Internal Standards (IS)

11.1 IS Area Counts

IS area counts were acceptable.

11.2 Retention Time (RT)

All RTs were within the method accepted criteria.

12.0 Target Compound Identification

All target compounds identification is acceptable.

12.1 Tentatively Identified Compounds (TICs)

SVOA: Some TICs were rejected since they were VOA target compounds.

13.0 Calculations and Transcription

Raw data were accurately transcribed to summary data sheets.

14.0 Additional Comments

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15.0 Data Qualifier Table

Volatile

Sample Identification	Compound	Qualifier	Section Reference
ATGW00501701XX	Ethyl benzene Styrene Chloromethane Chloroethane Methylene chloride Carbon disulfide Bromoform Bromodichloromethane 1,1-Dichloroethene Trichlorofluoromethane Dichlorodifluoromethane 1,1,2-Trichloro-1,2,2-Trifluoroethane 1,2-Dichloropropane 2-Butanone 1,1,2-Trichloroethane Acetic acid, methyl ester 1,1,2,2-Tetrachloroethane o-Xylene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane Isopropylbenzene Xylene, m/p cis-1,3-Dichloropropene trans-1,3-Dichloropropene 1,4-Dichlorobenzene 1,2-Dibromoethane 1,2-Dichloroethane 4-Methyl-2-pentanone Methyl cyclohexane Toluene Chlorobenzene Cyclohexane 1,2,4-Trichlorobenzene Chlorodibromomethane trans-1,2-Dichloroethene 1,3-Dichlorobenzene Carbon tetrachloride 2-Hexanone Acetone Chloroform Benzene Bromomethane	UJ	7.0
ATGW00501701XX	Cis-1,2-Dichloroethene	J	7.0
ATMW00201601XXDL, ATMW00601601XX, ATGW00502801XX , ATGW00602801XX	Bromomethane	UJ	5.2

Sample Identification	Compound	Qualifier	Section Reference
ATMW00701601XXRE	Methyl tert-butyl ether	J	7.0
ATEB001XXX01XX, ATGW00601701XX, ATGW00701701XX, ATGW01101701XX ATTB002XXX01XX	Trichlorofluoromethane	UJ	5.2
ATGW00901701XX	cis-1,2-Dichloroethene	J	7.0

Semi-volatile

Sample Identification	Compound	Qualifier	Section Reference
ATMW00101701XX ATMW00601601XX ATGW00901701XX ATGW01301701XX	Bis (2-ethyl hexyl) phthalate	U	6.0
ATMW00101701XX ATMW00601601XX ATGW00901701XX ATGW01301701XX ATMW00201601XX ATMW00701601XX	Acenaphthene	UJ	9.1

DATA VALIDATION REPORT

Volatile & Semi-volatile Analyses

SDG No. X5403
Sampling Date: November 9 -10, 2006

Submitted to:

MACTEC, Inc.,
511 Congress Street
Portland, ME 04112
207-775-5401

Submitted by:

EDV, Inc.,
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

January 12, 2007

Site:	Associated Textile/NYSDEC
Client:	MACTEC, Inc.
Analytical Laboratory:	Chemtech 284 Sheffield Street Mountainside, NJ 07092
Sample Delivery Group (SDG):	X5403
Sampling Date:	November 9-10, 2006
Analyses:	Volatile & Semi volatile
Analytical Method:	CLP OLM 4.2 and USEPA TO-15

Summary of Data Validation:

The adherence of laboratory analytical performance to CLP and USEPA TO-15 Analytical Specifications were evaluated during the data validation process. The USEPA Region II's data validation SOP Checklists (SOP HW-18 Rev 0, August 1994; SOP, HW-15 Rev 2, May 1993) and the National Functional Guidelines for Organic Data Review (October 1999), were used as guidelines for data qualifications.

Volatile: Some methylene chloride results were qualified as estimated due to calibration issues. Cis-1,2-dichloroethene in one sample was qualified as estimated due to surrogate recovery issues.

Semi-volatile: Hexachlorobutadiene and 2,4-dinitrophenol were qualified as estimated due to calibration issues.

The sample qualifiers applied by the data validator are in section 15.0 and Attachment A- Form 1s. The detailed discussions can be found in the report.

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1.0 Sample Identifications

The following table summarizes sample IDENTIFICATIONS, matrix of each sample and analyses present in the data package for each sample.

Client Sample ID	Matrix	Volatile	TO-15	Semi-volatile
ATDCMW202101XX	WATER	X	–	–
ATDCMW302101XX	WATER	X	–	–
ATDCMW401801XX	WATER	X	–	–
ATDCMW502001XX	WATER	X	–	–
ATMW00901701XX	WATER	X	–	X
ATGW00201801XX	WATER	X	–	–
ATGW00301801XX	WATER	X	–	–
ATGW01801101XX	WATER	X	–	–
ATGW01901301XX	WATER	X	–	–
ATGW02002601XX	WATER	X	–	X
ATGW02003401XX	WATER	X	–	–
ATGV00301201XX	AIR	–	X	–
ATDCG2101801XX	WATER	X	–	–
ATDCW1001501XX	WATER	X	–	–
ATDCG2201801XX	WATER	X	–	–
ATDCG2301801XX	WATER	X	–	–
AMTW01R01701XX	WATER	X	–	X
QC sample ID	**Matrix**			
LCS	WATER	X	X	X
LCSD	WATER	X	X	X
ATGW01801101XXMS	WATER	X	–	–
ATGW01801101XXMSD	WATER	X	–	–

2.0 Completeness Checklist

The following table identifies the summary form information and raw data found in the data package. Form numbers shown in parentheses refer to the current U.S. EPA CLP SOW equivalent reporting of results in an alternate summary format that has been determined to be acceptable. Analyses in this data package were performed in accordance with USEPA CLP and TO-15 Methods.

Completeness Checklist

X	Case Narrative
X	Chain of Custody Records/Traffic Reports/Tracking Records
X	Preservation Information
X	Sample Cross Reference with Unique Identifiers
X	Sample Results Summary Form (Form 1/Form 1-TIC)
X	CLP Flagging used on Results Summary
X	SMC/Surrogate Results Summary (Form 2)
NR	Matrix Spike/Matrix Spike Duplicate Results Summary (Form 3)
X	Laboratory Control Sample (LCS)/ Blank Spike Results Summary (Form 3)
NR	Control Charts
X	Method/Preparation Blank Results Summary (Form 4)
X	Volatile Initial Calibration Summary (Forms 6)
X	Volatile Continuing Calibration Summary (Form 7)
X	Volatile Analytical Sequence (Form 8)
X	Internal Standard Area Summary (Form X11)
X	Raw Data (incl. IS, Surr/SMC, RT, quant. Reports, etc.)
X	Samples
X	Initial Calibration
NR	Clean-ups
X	Continuing Calibration
NR	Instrument Blanks
X	Preparation Blanks/Method Blanks
O	Other Blanks
X	LCS/Blank Spike
X	Matrix Spikes/Matrix Spike Duplicates
NR	Matrix Duplicates/Replicates
O	Field Blanks – Trip Blank
X	Field Duplicates
X	Extraction Log Benchsheets
X	Instrument Run Logs
X	Sample Descriptions
X	Legible Pages
X	Pages in Package Numbered and in Sequence
X	Electronic Data Deliverable (EDD)

X: Included in original Data Package
NR: Not Required
O: Not Included and/or Not Available
RS: Provided as a Resubmission
X/RS: Incomplete in original data package, completed as a resubmission

3.0 Detection Limits

Detection limits are acceptable.

4.0 Holding Time

Holding times were acceptable.

4.1 Sample Preservation

Samples were appropriately preserved.

4.2 Percent Moisture

Percent moisture is not applicable.

4.3 Chain of Custody Record

Chain of Custody Record was present.

5.0 Calibration Quality Control

5.1 Initial Calibration

The initial calibration was acceptable.

.

5.2 Continuing Calibration (CCAL)

VOA: Methylene chloride-26% exceeded the 25% QC criterion. Affected samples were qualified as estimated due to this exceedance.

SVOA: Hexachlorocyclopentadiene-32 and 2,4-dinitrophenol-28% exceeded the 25% QC criterion. Affected samples were qualified as estimated due to this exceedance.

6.0 Blanks Quality Control

Method blank results are acceptable.

7.0 Surrogate Recoveries

Cis-1,2-dichloroethene in sample ATDC21011801XXDL was qualified due to high surrogate recovery. The results for this sample were presented as a hybrid of the original and diluted analyses.

8.0 Accuracy

8.1 Laboratory Control Samples (LCS)/Blank Spikes

LCS recoveries were acceptable.

8.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

8.2.1 Frequency

Frequency was met.

8.2.2 Recovery

Recoveries were acceptable.

9.0 Precision

9.1 Matrix Spike Duplicates

The results were acceptable.

9.2 Matrix Duplicate

RPDs were acceptable.

10.0 Field QC

10.1 Field Blanks/Rinse Blanks

No rinse blanks were reported with this SDG.

10.2 Trip Blanks

No trip blank was reported.

10.3 Field Duplicate

No field duplicates were presented with this SDG.

11.0 Internal Standards (IS)

11.1 IS Area Counts

IS area counts were within QC limit.

11.2 Retention Time (RT)

All RTs were within the method accepted criteria.

12.0 Target Compound Identification

All target compounds identification is acceptable.

12.1 Tentatively Identified Compounds (TICs)

No TICs were reported.

13.0 Calculations and Transcription

Raw data were accurately transcribed to summary data sheets.

14.0 Additional Comments

Samples ATDCMW20210XX and ATDCMW401801XX were reanalyzed due to target compound calibration exceedance. Based on professional judgment and technical information the validator presented the diluted analyses for both samples. Sample ATDCMW502001XX was also reanalyzed due to target compound calibration range exceedance. Based on professional judgment and technical information, the validator presented this sample as a hybrid of the diluted and original analyses.

15.0 Data Qualifier Table

Volatile

Sample Identification	Compound	Qualifier	Section Reference
ATMW00901701XX ATGW00201801XX ATGW00301801XX ATGW01901301XX ATGW02002601XXRE ATGW02003401XXRE ATDCG2101801XX ATMW01R01701XX	Methylene chloride	UJ	6.0
ATDCG2101801XXDL	Cis-1,2-dichloroethene	J	7.0

Semi-volatile

Sample Identification	Compound	Qualifier	Section Reference
ATMW00901701XX ATGW02002601XX ATMW01R01701XX	Hexachlorocyclopentadiene, 2,4-dinitrophenol	UJ	5.2

DATA VALIDATION REPORT

Volatile Analyses

SDG Nos. X5202 & X5544
Sampling Date: October 31 & November 17, 2006

Submitted to:

MACTEC, Inc.,
511 Congress Street
Portland, ME 04112
207-775-5401

Submitted by:

EDV, Inc.,
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

January 16, 2006

Site:	Associated Textiles/NYSDEC
Client:	MACTEC, Inc.
Analytical Laboratory:	Chemtech 284 Sheffield Street Mountainside, NJ 07092
Sample Delivery Group (SDG):	X5202 & X5544
Sampling Date:	October 31 & November 17, 2006
Analyses:	Volatile
Analytical Method:	CLP OLM 4.2

Summary of Data Validation:

The adherence of laboratory analytical performance to CLP Analytical Specifications was evaluated during the data validation process. The USEPA Region II's data validation SOP Checklists (SOP, HW-15 Rev 2, May 1993) and the National Functional Guidelines for Organic Data Review (October 1999), were used as guidelines for data qualifications.

SDG X5202: One compound was qualified as estimated due to calibration issues.

SDG X5544: Several samples were qualified as estimated due to calibration issues.

The sample qualifiers applied by the data validator are in section 15.0 and Attachment A- Form 1s. The detailed discussions can be found in the report.

Table of Contents

Table of Contents (Continued)

List of Appendices

1.0 Sample Identifications

The following table summarizes sample IDENTIFICATIONS, matrix of each sample and analyses present in the data package for each sample.

Client Sample ID	Matrix	Volatile
SDG X5544		
ATTB005XXX01XX	WATER	x
ATGW02401601XX	WATER	x
ATGW02501601XX	WATER	x
ATGW02501601XD	WATER	x
ATGW02601601XX	WATER	x
ATGW02701501XX	WATER	x
ATGW02801401XX	WATER	x
ATGW02901601XX	WATER	x
ATGW03001401XX	WATER	x
ATGW03001401XD	WATER	x
SDG X5202		
ATDCMW101801XX	WATER	x
QC sample ID	**Matrix**	
ATGW02701501XXMS	WATER	X
ATGW02701501XXMSD	WATER	X

2.0 Completeness Checklist

The following table identifies the summary form information and raw data found in the data package. Form numbers shown in parentheses refer to the current U.S. EPA CLP SOW equivalent reporting of results in an alternate summary format that has been determined to be acceptable. Analyses in this data package were performed in accordance with USEPA CLP Method.

Completeness Checklist

X	Case Narrative
X	Chain of Custody Records/Traffic Reports/Tracking Records
X	Preservation Information
X	Sample Cross Reference with Unique Identifiers
X	Sample Results Summary Form (Form 1/Form 1-TIC)
X	CLP Flagging used on Results Summary
X	SMC/Surrogate Results Summary (Form 2)
NR	Matrix Spike/Matrix Spike Duplicate Results Summary (Form 3)
X	Laboratory Control Sample (LCS)/ Blank Spike Results Summary (Form 3)
NR	Control Charts
X	Method/Preparation Blank Results Summary (Form 4)
X	Volatile Initial Calibration Summary (Forms 6)
X	Volatile Continuing Calibration Summary (Form 7)
X	Volatile Analytical Sequence (Form 8)
X	Internal Standard Area Summary (Form X11)
X	Raw Data (incl. IS, Surr/SMC, RT, quant. Reports, etc.)
X	Samples
X	Initial Calibration
NR	Clean-ups
X	Continuing Calibration
NR	Instrument Blanks
X	Preparation Blanks/Method Blanks
O	Other Blanks
X	LCS/Blank Spike
X	Matrix Spikes/Matrix Spike Duplicates
NR	Matrix Duplicates/Replicates
O	Field Blanks – Trip Blank
X	Field Duplicates
X	Extraction Log Benchsheets
X	Instrument Run Logs
X	Sample Descriptions
X	Legible Pages
X	Pages in Package Numbered and in Sequence
X	Electronic Data Deliverable (EDD)

X: Included in original Data Package
NR: Not Required
O: Not Included and/or Not Available
RS: Provided as a Resubmission
X/RS: Incomplete in original data package, completed as a resubmission

3.0 Detection Limits

All Contract Required Detection Limits (CRDLs) were met.

4.0 Holding Time

Holding times were acceptable.

4.1 Sample Preservation

Samples were appropriately preserved.

4.2 Percent Moisture

Percent moisture is not applicable.

4.3 Chain of Custody Record

Chain of Custody Record was present.

5.0 Calibration Quality Control

5.1 Initial Calibration

The ICAL is acceptable.

Continuing Calibration (CCAL)

SDG 5544: The following compounds exceeded the 25% QC criterion;

Compound	**%D-11/23/06**	**%D-11/23/06**
Dichlorodifluoromethane	32	-
Chloromethane	28	-
Methyl tert butyl ether	27	-
Methylene chloride	37	-
1,1,2,2-Tetrachloroethane	-	28

All affected compounds were qualified as estimated.

SDG X5202

Compound	**%D-11/70/06**
Methyl acetate	70

All affected compounds were qualified as estimated.

6.0 Blanks Quality Control

SDG X5544: Method blank reported methylene chloride contamination. Affected detected samples were qualified as non-detects.

7.0 Surrogate Recoveries

Recoveries were acceptable.

8.0 Accuracy

8.1 Laboratory Control Samples (LCS)/Blank Spikes

Recoveries were acceptable

8.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

8.2.1 Frequency

Frequency was met.

8.2.2 Recovery

Recoveries are acceptable.

9.0 Precision

9.1 Matrix Spike Duplicates

The results were acceptable.

9.2 Matrix Duplicate

RPDs were acceptable.

10.0 Field QC

10.1 Field Blanks/Rinse Blanks

There were no field blanks associated with this SDG.

10.2 Trip Blanks

Trip blanks reported no contamination.

10.3 Field Duplicate

SDG X5544: Sample ATGW003001401XD was presented as a field duplicate. The original sample is identified as ATGW003001401XX. Sample ATGW02501601XD was presented as a field duplicate. The original sample is identified as ATGW02501601XX. RPDs are calculated when both original and duplicate report detects. RPDs were acceptable.

11.0 Internal Standards (IS)

11.1 IS Area Counts

IS area counts are acceptable.

11.2 Retention Time (RT)

All RTs were within the method accepted criteria.

12.0 Target Compound Identification

All target compounds identification is acceptable.

12.1 Tentatively Identified Compounds (TICs)

TICs are acceptable.

13.0 Calculations and Transcription

Raw data were accurately transcribed to summary data sheets.

14.0 Additional Comments

15.0 Data Qualifier Table

Volatile
SDG X5544

Sample Identification	Compound	Qualifier	Section Reference
ATTB005XXX01XX ATGW02401601XX ATGW02501601XX ATGW02501601XD ATGW02801401XX ATGW02901601XX	Dichlorodifluoromethane Chloromethane Methylene chloride	UJ	5.2
ATGW02401601XX ATGW02501601XX ATGW02501601XD	Methyl tert butyl ether	J	7.0
ATGW02801401XX ATTB005XXX01XX	Methyl tert butyl ether	UJ	7.0
ATGW03001401XX ATGW03001401XD	1,1,2,2-Tetrachloroethane	UJ	5.2

SDG X5202

Sample Identification	Compound	Qualifier	Section Reference
ATDCMW101801XX	Methyl Acetate	UJ	5.2

DATA USABILITY SUMMARY REPORT
2006 AIR SAMPLING EVENT
ASSOCIATED TEXTILES
ELMIRA, NEW YORK

Introduction:

One air sample was collected by MACTEC at the Associated Textiles site in December 2006 and submitted for off-site laboratory analyses. Samples were analyzed by Chemtech located in Mountainside, NJ. A listing of samples included in this investigation is presented in Table 1. Samples were analyzed for the following parameters:

- Volatile organic compounds (VOCs) by EPA Method TO-15.

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2000).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. With the exception of the items discussed below, results are interpreted to be usable as reported by the laboratory. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected above the reported detection limit
UJ = target analyte is not detected at the reported detection limit and is estimated
J = concentration is estimated
D = result is reported from an additional dilution run
E = result exceeds the calibration range of the instrument

A summary of the final field sample data is presented in Table 2. Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

Air Samples - Volatile Organic Compounds

Internal Standards

Sample ATSV00100101XX had responses for the internal standards 1,4-difluorobenzene and chlorobenzene-d5 that were low and outside of control limits. In addition, the diluted analytical run of sample ATSV00100101XX had a low response for the internal standard 1,4-difluorobenzene. All results associated with these internal standards were qualified as estimated (J/UJ).

Initial Calibration

The initial calibration associated with sample ATSV00100101XX had a relative standard deviation that was greater than the control limit of 30 for 1,2,4-trichlorobenzene (36). The result for 1,2,4-trichlorobenzene was non-detect and was qualified as estimated (UJ).

Continuing Calibration

The continuing calibration associated with sample ATSV00100101XX had a percent differences for heptane (-26), vinyl acetate (-27), trans-1,3-dichloropropene (-34), 2-hexanone (-52), ethylbenzene (-44), 1,4-dichlorobenzene (-42), and 1,2-dichlorobenzene (-30) that were greater than the control limit of 25. The results for these compounds in sample ATSV00100101XX were non-detect and were qualified as estimated (UJ).

Surrogate Recoveries

Sample ATSV00100101XX had a recovery for the surrogate 1-bromo-4-fluorobenzene that was less than the laboratory control limits of 65-135. All results in sample ATSV00100101XX were qualified as estimated (J/UJ).

Laboratory Control Samples

The LCS associated with sample ATSV00100101XX had a percent recovery for hexachloro-1,3-butadiene (48) that was less than the control limit of 60-140 indicating a low bias. The result for hexachloro-1,3-butadiene in sample ATSV00100101XX was non-detect and was qualified as estimated (UJ).

Miscellaneous

Sample ATSV00100101XX had a detection for trichloroethene that was greater than the calibration range of the instrument. The sample was reanalyzed at a dilution and still had a detection for trichloroethene that was greater than the calibration range. The result was reported from the diluted analytical run and is lab qualified as "E" to indicate this exceedence.

TABLE 1

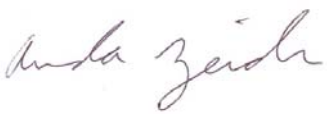
SDG	Sample Name	Date Collected	Method	Parameter	Type
X5887	ATSV00100101XX	12/19/06	TO-15	VOC	FS

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2000. "Analytical Services Protocols"; June 2000.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

Data Validator: Amanda Zeidler

Signature  Date January 24, 2006

Quality Assurance Officer: Chris Ricardi, NRCC-EAC

Date: 3/30/07

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5286-07		X5286-08RE		X5286-09		X5429-08		X5403-06	
SDG	X5286		X5286		X5286		X5429		X5403	
Location	GW-1		GW-1		GW-1		GW-2		GW-2	
Field Sample Id	ATGW00102001XX		ATGW00102001XD		ATGW00102901XX		ATDCGW201502XX		ATGW00201801XX	
Field Sample Date	11/6/2006		11/6/2006		11/6/2006		11/16/2006		11/10/2006	
Qc Code	FS		FD		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	2.1	J	2.3	J	8.2	J	10	U	250	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	UJ	250	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	UJ	10	UJ	10	UJ	10	U	250	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	250	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	250	U
1,1-Dichloroethene	10	UJ	10	UJ	10	UJ	10	U	250	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	250	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	250	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	250	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	250	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	250	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	250	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	250	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	250	U
2-Butanone	50	U	50	U	50	U	50	U	1200	U
2-Hexanone	50	U	50	U	50	U	50	U	1200	U
4-Methyl-2-pentanone	50	U	50	U	50	U	50	U	1200	U
Acetic acid, methyl ester	10	U	10	U	10	U	10	U	250	U
Acetone	50	U	50	U	50	U	50	U	1200	U
Benzene	1.3	J	1.4	J	10	U	10	U	250	U
Bromodichloromethane	10	U	10	U	10	U	10	U	250	U
Bromoform	10	U	10	U	10	U	10	U	250	U
Bromomethane	10	U	10	U	10	U	10	U	250	U
Carbon disulfide	10	U	10	U	10	U	10	U	250	U
Carbon tetrachloride	10	U	10	U	10	U	10	U	250	U
Chlorobenzene	10	U	10	U	10	U	10	U	250	U
Chlorodibromomethane	10	U	10	U	10	U	10	U	250	U
Chloroethane	10	U	10	U	10	U	10	U	250	U
Chloroform	10	U	10	U	10	U	10	U	250	U
Chloromethane	10	U	10	U	10	U	10	U	250	U
Cis-1,2-Dichloroethene	34		37	J	48		31		250	J
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	250	U
Cyclohexane	10	U	10	U	10	U	10	U	250	U
Dichlorodifluoromethane	10	U	10	U	10	U	10	U	250	U

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5286-07		X5286-08RE		X5286-09		X5429-08		X5403-06	
	SDG	X5286		X5286		X5286		X5429		X5403	
	Location	GW-1		GW-1		GW-1		GW-2		GW-2	
	Field Sample Id	ATGW00102001XX		ATGW00102001XD		ATGW00102901XX		ATDCGW201502XX		ATGW00201801XX	
	Field Sample Date	11/6/2006		11/6/2006		11/6/2006		11/16/2006		11/10/2006	
	Qc Code	FS		FD		FS		FS		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Ethyl benzene		10	U	10	U	10	U	10	U	250	U
Isopropylbenzene		10	U	10	U	10	U	10	U	250	U
Methyl cyclohexane		10	U	10	U	10	U	10	U	250	U
Methyl Tertbutyl Ether		2.9	J	3	J	15		10	U	250	U
Methylene chloride		10	U	10	U	10	U	10	U	250	UJ
o-Xylene		10	U	10	U	10	U	10	U	250	U
Styrene		10	U	10	U	10	U	10	U	250	U
Tetrachloroethene		2.5	J	2.5	J	12		210	D	2100	
Toluene		10	U	10	U	10	U	10	U	250	U
trans-1,2-Dichloroethene		10	U	10	U	10	U	10	U	250	U
trans-1,3-Dichloropropene		10	U	10	U	10	U	10	U	250	U
Trichloroethene		20		20	J	13		27		190	J
Trichlorofluoromethane		10	U	10	U	10	U	10	U	250	U
Vinyl chloride		3.9	J	4	J	10	U	10	U	250	U
Xylene, m/p		10	U	10	U	10	U	10	U	250	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5403-07		X5191-04		X5313-06		X5313-07		X5313-09	
	SDG	X5403		X5191		X5313		X5313		X5313	
	Location	GW-3		GW-4		GW-5		GW-5		GW-6	
	Field Sample Id	ATGW00301801XX		ATGW00401701XX		ATGW00501701XX		ATGW00502801XX		ATGW00601701XX	
	Field Sample Date	11/10/2006		11/8/2006		11/7/2006		11/7/2006		11/7/2006	
	Qc Code	FS		FS		FS		FS		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane		10	U	17		2.6	J	5.2	J	10	U
1,1,2,2-Tetrachloroethane		10	U	10	U	10	UJ	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane		10	U	10	U	10	UJ	10	U	10	U
1,1,2-Trichloroethane		10	U	10	U	10	UJ	10	U	10	U
1,1-Dichloroethane		10	U	3	J	1.2	J	2.8	J	10	U
1,1-Dichloroethene		10	U	1.2	J	10	UJ	1.1	J	10	U
1,2,4-Trichlorobenzene		10	U	10	U	10	UJ	10	U	10	U
1,2-Dibromo-3-chloropropane		10	U	10	U	10	UJ	10	U	10	U
1,2-Dibromoethane		10	U	10	U	10	UJ	10	U	10	U
1,2-Dichlorobenzene		10	U	10	U	10	UJ	10	U	10	U
1,2-Dichloroethane		10	U	10	U	10	UJ	10	U	10	U
1,2-Dichloropropane		10	U	10	U	10	UJ	10	U	10	U
1,3-Dichlorobenzene		10	U	10	U	10	UJ	10	U	10	U
1,4-Dichlorobenzene		10	U	10	U	10	UJ	10	U	10	U
2-Butanone		50	U	50	U	50	UJ	50	U	50	U
2-Hexanone		50	U	50	U	50	UJ	50	U	50	U
4-Methyl-2-pentanone		50	U	50	U	50	UJ	50	U	50	U
Acetic acid, methyl ester		10	U	10	U	10	UJ	10	U	10	U
Acetone		50	U	50	U	50	UJ	50	U	50	U
Benzene		10	U	10	U	10	UJ	10	U	10	U
Bromodichloromethane		10	U	10	U	10	UJ	10	U	10	U
Bromoform		10	U	10	U	10	UJ	10	U	10	U
Bromomethane		10	U	10	U	10	UJ	10	UJ	10	U
Carbon disulfide		10	U	10	U	10	UJ	10	U	10	U
Carbon tetrachloride		10	U	10	U	10	UJ	10	U	10	U
Chlorobenzene		10	U	10	U	10	UJ	10	U	10	U
Chlorodibromomethane		10	U	10	U	10	UJ	10	U	10	U
Chloroethane		10	U	10	U	10	UJ	10	U	10	U
Chloroform		10	U	10	U	10	UJ	10	U	10	U
Chloromethane		10	U	10	U	10	UJ	10	U	10	U
Cis-1,2-Dichloroethene		10	U	47		22	J	43		10	U
cis-1,3-Dichloropropene		10	U	10	U	10	UJ	10	U	10	U
Cyclohexane		10	U	10	U	10	UJ	10	U	10	U
Dichlorodifluoromethane		10	U	10	U	10	UJ	10	U	10	U

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5403-07		X5191-04		X5313-06		X5313-07		X5313-09	
	SDG	X5403		X5191		X5313		X5313		X5313	
	Location	GW-3		GW-4		GW-5		GW-5		GW-6	
	Field Sample Id	ATGW00301801XX		ATGW00401701XX		ATGW00501701XX		ATGW00502801XX		ATGW00601701XX	
	Field Sample Date	11/10/2006		11/8/2006		11/7/2006		11/7/2006		11/7/2006	
	Qc Code	FS		FS		FS		FS		FS	
Parameter		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Ethyl benzene		10	U	10	U	10	UJ	10	U	10	U
Isopropylbenzene		10	U	10	U	10	UJ	10	U	10	U
Methyl cyclohexane		10	U	10	U	10	UJ	10	U	10	U
Methyl Tertbutyl Ether		10	U	3	J	1.3	J	3	J	10	U
Methylene chloride		10	UJ	10	U	10	UJ	10	U	10	U
o-Xylene		10	U	10	U	10	UJ	10	U	10	U
Styrene		10	U	10	U	10	UJ	10	U	10	U
Tetrachloroethene		10	U	17		3	J	6.9	J	9.2	J
Toluene		10	U	10	U	10	UJ	10	U	10	U
trans-1,2-Dichloroethene		10	U	10	U	10	UJ	10	U	10	U
trans-1,3-Dichloropropene		10	U	10	U	10	UJ	10	U	10	U
Trichloroethene		10	U	15		1.5	J	4.1	J	10	U
Trichlorofluoromethane		10	U	10	UJ	10	UJ	10	U	10	UJ
Vinyl chloride		10	U	2.9	J	1.7	J	4.2	J	10	U
Xylene, m/p		10	U	10	U	10	UJ	10	U	10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5313-10		X5313-11		X5313-12		X5313-13		X5286-10RE	
SDG	X5313		X5313		X5313		X5313		X5286	
Location	GW-6		GW-6		GW-7		GW-7		GW-8	
Field Sample Id	ATGW00602801XD		ATGW00602801XX		ATGW00701701XX		ATGW00702801XX		ATGW00802001XX	
Field Sample Date	11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/6/2006	
Qc Code	FD		FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	10	U	10	U	10	U	10	UJ
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	10	U	10	U	10	U	10	UJ
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
2-Butanone	50	U	50	U	50	U	50	U	50	U
2-Hexanone	50	U	50	U	50	U	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	U	50	U	50	U
Acetic acid, methyl ester	10	U	10	U	10	U	10	U	10	U
Acetone	50	U	50	U	50	U	50	U	50	U
Benzene	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	UJ	10	UJ	10	U	10	U	10	U
Carbon disulfide	10	U	10	U	10	U	10	U	10	U
Carbon tetrachloride	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	10	U	10	U	0.93	J	10	U	5.1	J
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Dichlorodifluoromethane	10	U	10	U	10	U	10	U	10	U

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5313-10		X5313-11		X5313-12		X5313-13		X5286-10RE	
	SDG	X5313		X5313		X5313		X5313		X5286	
	Location	GW-6		GW-6		GW-7		GW-7		GW-8	
	Field Sample Id	ATGW00602801XD		ATGW00602801XX		ATGW00701701XX		ATGW00702801XX		ATGW00802001XX	
	Field Sample Date	11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/6/2006	
	Qc Code	FD		FS		FS		FS		FS	
Parameter		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Ethyl benzene		10	U	10	U	10	U	10	U	10	U
Isopropylbenzene		10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane		10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether		10	U	10	U	10	U	10	U	4.9	J
Methylene chloride		10	U	10	U	10	U	10	U	10	U
o-Xylene		10	U	10	U	10	U	10	U	10	U
Styrene		10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		10	U	10	U	1.6	J	2.2	J	2.6	J
Toluene		10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene		10	U	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene		10	U	10	U	10	U	10	U	10	U
Trichloroethene		10	U	10	U	10	U	10	U	1.3	J
Trichlorofluoromethane		10	U	10	U	10	UJ	10	U	10	U
Vinyl chloride		1	J	1.2	J	1.5	J	2.5	J	10	U
Xylene, m/p		2.8	J	10	U	10	U	10	U	10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5286-11		X5313-14		X5313-15		X5286-12RE		X5286-13RE	
SDG	X5286		X5313		X5313		X5286		X5286	
Location	GW-8		GW-9		GW-9		GW-10		GW-10	
Field Sample Id	ATGW00802701XX		ATGW00901701XX		ATGW00902801XX		ATGW01002201XX		ATGW01002901XX	
Field Sample Date	11/6/2006		11/7/2006		11/7/2006		11/6/2006		11/6/2006	
Qc Code	FS		FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	10	U	10	U	10	UJ	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	UJ	10	U	10	U	10	UJ	10	UJ
1,1,2-Trichloroethane	10	U	10	U	10	U	10	UJ	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	UJ	10	U	10	U	10	UJ	10	UJ
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	UJ	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	UJ	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	UJ	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	UJ	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
2-Butanone	50	U	50	U	50	U	50	UJ	50	U
2-Hexanone	50	U	50	U	50	U	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	U	50	U	50	U
Acetic acid, methyl ester	10	U	10	U	10	U	10	U	10	U
Acetone	50	U	50	U	50	U	50	U	50	U
Benzene	10	U	10	U	10	U	10	UJ	10	U
Bromodichloromethane	10	U	10	U	10	U	10	UJ	10	U
Bromoform	10	U	10	U	10	U	10	UJ	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	10	U	10	U	10	U	10	U	10	U
Carbon tetrachloride	10	U	10	U	10	U	10	UJ	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	10	UJ	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	2.8	J	140	J	19		69		42	J
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	UJ	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Dichlorodifluoromethane	10	U	10	U	10	U	10	U	10	U

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5286-11		X5313-14		X5313-15		X5286-12RE		X5286-13RE	
	SDG	X5286		X5313		X5313		X5286		X5286	
	Location	GW-8		GW-9		GW-9		GW-10		GW-10	
	Field Sample Id	ATGW00802701XX		ATGW00901701XX		ATGW00902801XX		ATGW01002201XX		ATGW01002901XX	
	Field Sample Date	11/6/2006		11/7/2006		11/7/2006		11/6/2006		11/6/2006	
	Qc Code	FS		FS		FS		FS		FS	
Parameter		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Ethyl benzene		10	U	10	U	10	U	10	U	10	U
Isopropylbenzene		10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane		10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether		10	U	10	U	10	U	2.2	J	2.9	J
Methylene chloride		10	U	10	U	10	U	10	U	10	U
o-Xylene		10	U	10	U	10	U	10	U	10	U
Styrene		10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		2.7	J	5	J	1.2	J	10	U	10	U
Toluene		10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene		10	U	1.3	J	10	U	3.6	J	1	J
trans-1,3-Dichloropropene		10	U	10	U	10	U	10	UJ	10	U
Trichloroethene		10	U	7.9	J	10	U	1.5	J	10	U
Trichlorofluoromethane		10	U	10	U	10	U	10	U	10	U
Vinyl chloride		10	U	1.4	J	9	J	2.8	J	4.5	J
Xylene, m/p		10	U	10	U	10	U	10	U	10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5313-16		X5313-17		X5313-18		X5313-19		X5313-20	
SDG	X5313		X5313		X5313		X5313		X5313	
Location	GW-11		GW-11		GW-13		GW-13		GW-14	
Field Sample Id	ATGW01101701XX		ATGW01102801XX		ATGW01301701XX		ATGW01302301XX		ATGW01401601XX	
Field Sample Date	11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/7/2006	
Qc Code	FS		FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
2-Butanone	50	U	50	U	50	U	50	U	50	U
2-Hexanone	50	U	50	U	50	U	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	U	50	U	50	U
Acetic acid, methyl ester	10	U	10	U	10	U	10	U	10	U
Acetone	50	U	50	U	50	U	50	U	50	U
Benzene	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	10	U	10	U	10	U	10	U	10	U
Carbon tetrachloride	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	34		140		23		44		1.7	J
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Dichlorodifluoromethane	10	U	10	U	10	U	10	U	10	U

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5313-16		X5313-17		X5313-18		X5313-19		X5313-20	
	SDG	X5313		X5313		X5313		X5313		X5313	
	Location	GW-11		GW-11		GW-13		GW-13		GW-14	
	Field Sample Id	ATGW01101701XX		ATGW01102801XX		ATGW01301701XX		ATGW01302301XX		ATGW01401601XX	
	Field Sample Date	11/7/2006		11/7/2006		11/7/2006		11/7/2006		11/7/2006	
	Qc Code	FS		FS		FS		FS		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Ethyl benzene		10	U	10	U	10	U	10	U	10	U
Isopropylbenzene		10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane		10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether		10	U	3.7	J	3.1	J	1.8	J	10	U
Methylene chloride		10	U	10	U	10	U	10	U	10	U
o-Xylene		10	U	10	U	10	U	10	U	10	U
Styrene		10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		10	U	10	U	10	U	10	U	10	U
Toluene		10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene		1	J	6.2	J	2.1	J	3.9	J	10	U
trans-1,3-Dichloropropene		10	U	10	U	10	U	10	U	10	U
Trichloroethene		10		3.7	J	10	U	10	U	10	U
Trichlorofluoromethane		10	UJ	10	U	10	U	10	U	10	U
Vinyl chloride		10	U	4.7	J	1	J	1.2	J	10	U
Xylene, m/p		10	U	10	U	10	U	10	U	0.89	J

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5313-21		X5191-05		X5403-08		X5403-11		X5403-12RE	
SDG	X5313		X5191		X5403		X5403		X5403	
Location	GW-14		GW-15		GW-18		GW-19		GW-20	
Field Sample Id	ATGW01402901XX		ATGW01501601XX		ATGW01801101XX		ATGW01901301XX		ATGW02002601XX	
Field Sample Date	11/7/2006		11/8/2006		11/9/2006		11/9/2006		11/9/2006	
Qc Code	FS		FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	10	UJ	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
2-Butanone	50	U	50	U	50	U	50	U	50	U
2-Hexanone	50	U	50	U	50	U	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	U	50	U	50	U
Acetic acid, methyl ester	10	U	10	U	10	U	10	U	10	U
Acetone	50	U	50	U	50	U	50	U	50	U
Benzene	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	10	U	10	U	10	U	10	U	10	U
Carbon tetrachloride	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	9.7	J	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Dichlorodifluoromethane	10	U	10	U	10	U	10	U	10	U

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5313-21		X5191-05		X5403-08		X5403-11		X5403-12RE	
	SDG	X5313		X5191		X5403		X5403		X5403	
	Location	GW-14		GW-15		GW-18		GW-19		GW-20	
	Field Sample Id	ATGW01402901XX		ATGW01501601XX		ATGW01801101XX		ATGW01901301XX		ATGW02002601XX	
	Field Sample Date	11/7/2006		11/8/2006		11/9/2006		11/9/2006		11/9/2006	
	Qc Code	FS		FS		FS		FS		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Ethyl benzene		10	U	10	U	10	U	10	U	10	U
Isopropylbenzene		10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane		10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether		0.83	J	10	U	10	U	10	U	10	U
Methylene chloride		10	U	10	U	10	U	10	UJ	10	UJ
o-Xylene		10	U	10	U	10	U	10	U	10	U
Styrene		10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		10	U	10	U	10	U	10	U	10	U
Toluene		10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene		1.2	J	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene		10	U	10	U	10	U	10	U	10	U
Trichloroethene		10	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane		10	U	10	U	10	U	10	U	10	U
Vinyl chloride		0.88	J	10	U	10	U	10	U	10	U
Xylene, m/p		10	U	10	U	10	U	10	U	10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5403-13RE		X5403-15		X5403-17		X5403-18		X5544-02	
SDG	X5403		X5403		X5403		X5403		X5544	
Location	GW-20		GW-21		GW-22		GW-23		GW-24	
Field Sample Id	ATGW02003401XX		ATDCG2101801XX		ATDCG2201801XX		ATDCG2301801XX		ATGW02401601XX	
Field Sample Date	11/9/2006		11/9/2006		11/10/2006		11/10/2006		11/17/2006	
Qc Code	FS		FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
2-Butanone	50	U	50	U	50	U	3.5	J	50	U
2-Hexanone	50	U	50	U	50	U	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	U	50	U	50	U
Acetic acid, methyl ester	10	U	10	U	10	U	10	U	10	U
Acetone	50	U	50	U	50	U	50	U	50	U
Benzene	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	10	U	10	U	10	U	10	U	10	U
Carbon tetrachloride	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	UJ
Cis-1,2-Dichloroethene	10	U	170	J	66		38		10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Dichlorodifluoromethane	10	U	10	U	10	U	10	U	10	UJ

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5403-13RE		X5403-15		X5403-17		X5403-18		X5544-02	
	SDG	X5403		X5403		X5403		X5403		X5544	
	Location	GW-20		GW-21		GW-22		GW-23		GW-24	
	Field Sample Id	ATGW02003401XX		ATDCG2101801XX		ATDCG2201801XX		ATDCG2301801XX		ATGW02401601XX	
	Field Sample Date	11/9/2006		11/9/2006		11/10/2006		11/10/2006		11/17/2006	
	Qc Code	FS		FS		FS		FS		FS	
Parameter		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Ethyl benzene		10	U	10	U	10	U	10	U	10	U
Isopropylbenzene		10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane		10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether		10	U	10	U	10	U	10	U	26	J
Methylene chloride		10	UJ	10	UJ	10	U	10	U	10	UJ
o-Xylene		10	U	10	U	10	U	10	U	10	U
Styrene		10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		10	U	98		17		65		10	U
Toluene		10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene		10	U	1.8	J	10	U	10	U	10	U
trans-1,3-Dichloropropene		10	U	10	U	10	U	10	U	10	U
Trichloroethene		10	U	17		4.7	J	9.1	J	10	U
Trichlorofluoromethane		10	U	10	U	10	U	10	U	10	U
Vinyl chloride		10	U	1.1	J	10	U	10	U	10	U
Xylene, m/p		10	U	10	U	10	U	10	U	10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
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FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5544-03		X5544-04		X5544-05		X5544-06		X5544-09	
SDG	X5544		X5544		X5544		X5544		X5544	
Location	GW-25		GW-25		GW-26		GW-27		GW-28	
Field Sample Id	ATGW02501601XX		ATGW02501601XD		ATGW02601601XX		ATGW02701501XX		ATGW02801401XX	
Field Sample Date	11/17/2006		11/17/2006		11/17/2006		11/17/2006		11/17/2006	
Qc Code	FS		FD		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
2-Butanone	50	U	50	U	50	U	50	U	50	U
2-Hexanone	50	U	50	U	50	U	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	U	50	U	50	U
Acetic acid, methyl ester	10	U	10	U	10	U	10	U	10	U
Acetone	50	U	50	U	50	U	50	U	50	U
Benzene	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	10	U	10	U	10	U	10	U	10	U
Carbon tetrachloride	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	3	J	10	U
Chloromethane	10	UJ	10	UJ	10	U	10	U	10	UJ
Cis-1,2-Dichloroethene	10	U	10	U	16		2.6	J	98	
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Dichlorodifluoromethane	10	UJ	10	UJ	10	U	10	U	10	UJ

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5544-03		X5544-04		X5544-05		X5544-06		X5544-09	
	SDG	X5544		X5544		X5544		X5544		X5544	
	Location	GW-25		GW-25		GW-26		GW-27		GW-28	
	Field Sample Id	ATGW02501601XX		ATGW02501601XD		ATGW02601601XX		ATGW02701501XX		ATGW02801401XX	
	Field Sample Date	11/17/2006		11/17/2006		11/17/2006		11/17/2006		11/17/2006	
	Qc Code	FS		FD		FS		FS		FS	
Parameter		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Ethyl benzene		10	U	10	U	10	U	10	U	10	U
Isopropylbenzene		10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane		10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether		26	J	29	J	10	U	10	U	10	UJ
Methylene chloride		10	UJ	10	UJ	10	U	10	U	10	UJ
o-Xylene		10	U	10	U	10	U	10	U	10	U
Styrene		10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		10	U	10	U	4300	D	96	D	28	
Toluene		10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene		10	U	10	U	10	U	10	U	5.1	J
trans-1,3-Dichloropropene		10	U	10	U	10	U	10	U	10	U
Trichloroethene		10	U	10	U	200		3.9	J	98	
Trichlorofluoromethane		10	U	10	U	10	U	10	U	10	U
Vinyl chloride		10	U	10	U	10	U	10	U	0.88	J
Xylene, m/p		10	U	10	U	10	U	10	U	10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
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FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5544-10		X5544-11		X5544-12		X5403-19		X5202-01	
SDG	X5544		X5544		X5544		X5403		X5202	
Location	GW-29		GW-30		GW-30		MW-1		MW-1	
Field Sample Id	ATGW02901601XX		ATGW03001401XX		ATGW03001401XD		ATMW01R01701XX		ATDCMW101801XX	
Field Sample Date	11/17/2006		11/17/2006		11/17/2006		11/9/2006		10/31/2006	
Qc Code	FS		FS		FD		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10		10	U	10	U	100	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	UJ	100	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	10	U	10	U	100	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	100	U	10	U
1,1-Dichloroethane	4.8	J	10	U	10	U	100	U	10	U
1,1-Dichloroethene	10	U	0.91	J	0.83	J	100	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	100	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	100	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	100	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	100	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	100	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	100	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	100	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	100	U	10	U
2-Butanone	50	U	50	U	50	U	500	U	50	U
2-Hexanone	50	U	50	U	50	U	500	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	U	500	U	50	U
Acetic acid, methyl ester	10	U	10	U	10	U	100	U	10	UJ
Acetone	50	U	50	U	50	U	500	U	50	U
Benzene	6	J	10	U	10	U	70	J	10	U
Bromodichloromethane	10	U	10	U	10	U	100	U	10	U
Bromoform	10	U	10	U	10	U	100	U	10	U
Bromomethane	10	U	10	U	10	U	100	U	10	U
Carbon disulfide	10	U	10	U	10	U	100	U	10	U
Carbon tetrachloride	10	U	10	U	10	U	100	U	10	U
Chlorobenzene	10	U	10	U	10	U	100	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	100	U	10	U
Chloroethane	10	U	10	U	10	U	100	U	10	U
Chloroform	10	U	10	U	10	U	100	U	10	U
Chloromethane	10	UJ	10	U	10	U	100	U	10	U
Cis-1,2-Dichloroethene	11		47		51		100	U	10	
cis-1,3-Dichloropropene	10	U	10	U	10	U	100	U	10	U
Cyclohexane	10	U	10	U	10	U	87	J	10	U
Dichlorodifluoromethane	10	UJ	10	U	10	U	100	U	10	U

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5544-10		X5544-11		X5544-12		X5403-19		X5202-01	
	SDG	X5544		X5544		X5544		X5403		X5202	
	Location	GW-29		GW-30		GW-30		MW-1		MW-1	
	Field Sample Id	ATGW02901601XX		ATGW03001401XX		ATGW03001401XD		ATMW01R01701XX		ATDCMW101801XX	
	Field Sample Date	11/17/2006		11/17/2006		11/17/2006		11/9/2006		10/31/2006	
	Qc Code	FS		FS		FD		FS		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Ethyl benzene		10	U	10	U	10	U	210		10	U
Isopropylbenzene		10	U	10	U	10	U	19	J	10	U
Methyl cyclohexane		10	U	10	U	10	U	67	J	10	U
Methyl Tertbutyl Ether		7.8	J	10	U	10	U	19	J	10	U
Methylene chloride		10	UJ	10	U	10	U	100	UJ	10	U
o-Xylene		10	U	10	U	10	U	32	J	10	U
Styrene		10	U	10	U	10	U	100	U	10	U
Tetrachloroethene		6.4	J	1.7	J	1.4	J	100	U	26	
Toluene		10	U	10	U	10	U	79	J	10	U
trans-1,2-Dichloroethene		10	U	10	U	10	U	100	U	10	U
trans-1,3-Dichloropropene		10	U	10	U	10	U	100	U	10	U
Trichloroethene		3.3	J	33		34		100	U	7	J
Trichlorofluoromethane		10	U	10	U	10	U	100	U	10	U
Vinyl chloride		6.3	J	6.5	J	6	J	100	U	10	U
Xylene, m/p		10	U	10	U	10	U	210		10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5313-01		X5313-02DL		X5403-01		X5403-02		X5403-03	
SDG	X5313		X5313		X5403		X5403		X5403	
Location	MW-1R		MW-2		MW-2		MW-3		MW-4	
Field Sample Id	ATMW00101701XX		ATMW00201601XX		ATDCMW202101XX		ATDCMW302101XX		ATDCMW401801XX	
Field Sample Date	11/7/2006		11/7/2006		11/9/2006		11/9/2006		11/9/2006	
Qc Code	FS		FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	250	U	10	UJ	10	U	10	UJ
1,1,2,2-Tetrachloroethane	10	U	250	U	10	UJ	10	U	10	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	250	U	10	UJ	10	U	10	UJ
1,1,2-Trichloroethane	10	U	250	U	10	UJ	10	U	10	UJ
1,1-Dichloroethane	10	U	250	U	10	UJ	10	U	10	UJ
1,1-Dichloroethene	10	U	250	U	10	UJ	10	U	10	UJ
1,2,4-Trichlorobenzene	10	U	250	U	10	UJ	10	U	10	UJ
1,2-Dibromo-3-chloropropane	10	U	250	U	10	UJ	10	U	10	UJ
1,2-Dibromoethane	10	U	250	U	10	UJ	10	U	10	UJ
1,2-Dichlorobenzene	10	U	250	U	10	UJ	10	U	10	UJ
1,2-Dichloroethane	10	U	250	U	10	UJ	10	U	10	UJ
1,2-Dichloropropane	10	U	250	U	10	UJ	10	U	10	UJ
1,3-Dichlorobenzene	10	U	250	U	10	UJ	10	U	10	UJ
1,4-Dichlorobenzene	10	U	250	U	10	UJ	10	U	10	UJ
2-Butanone	50	U	1200	U	50	UJ	50	U	50	UJ
2-Hexanone	50	U	1200	U	50	UJ	50	U	50	UJ
4-Methyl-2-pentanone	50	U	1200	U	50	UJ	50	U	50	UJ
Acetic acid, methyl ester	10	U	250	U	10	UJ	10	U	10	UJ
Acetone	50	U	1200	U	50	UJ	50	U	50	UJ
Benzene	1.5	J	2100	D	10	UJ	10	U	10	UJ
Bromodichloromethane	10	U	250	U	10	UJ	10	U	10	UJ
Bromoform	10	U	250	U	10	UJ	10	U	10	UJ
Bromomethane	10	U	250	UJ	10	UJ	10	U	10	UJ
Carbon disulfide	10	U	250	U	10	UJ	10	U	10	UJ
Carbon tetrachloride	10	U	250	U	10	UJ	10	U	10	UJ
Chlorobenzene	10	U	250	U	10	UJ	10	U	10	UJ
Chlorodibromomethane	10	U	250	U	10	UJ	10	U	10	UJ
Chloroethane	10	U	250	U	10	UJ	10	U	10	UJ
Chloroform	10	U	250	U	10	UJ	2.3	J	10	UJ
Chloromethane	10	U	250	U	10	UJ	10	U	10	UJ
Cis-1,2-Dichloroethene	10	U	250	U	65	J	18	J	33	J
cis-1,3-Dichloropropene	10	U	250	U	10	UJ	10	U	10	UJ
Cyclohexane	10		220	JD	10	UJ	10	U	10	UJ
Dichlorodifluoromethane	10	U	250	U	10	UJ	10	U	10	UJ

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5313-01		X5313-02DL		X5403-01		X5403-02		X5403-03	
SDG	X5313		X5313		X5403		X5403		X5403	
Location	MW-1R		MW-2		MW-2		MW-3		MW-4	
Field Sample Id	ATMW00101701XX		ATMW00201601XX		ATDCMW202101XX		ATDCMW302101XX		ATDCMW401801XX	
Field Sample Date	11/7/2006		11/7/2006		11/9/2006		11/9/2006		11/9/2006	
Qc Code	FS		FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Ethyl benzene	3.7	J	1700	D	10	UJ	10	U	10	UJ
Isopropylbenzene	10	U	70	JD	10	UJ	10	U	10	UJ
Methyl cyclohexane	6	J	110	JD	10	UJ	10	U	10	UJ
Methyl Tertbutyl Ether	6.4	J	250	U	10	UJ	10	U	10	UJ
Methylene chloride	10	U	250	U	10	UJ	10	U	0.87	J
o-Xylene	3.3	J	1200	D	10	UJ	10	U	10	UJ
Styrene	10	U	250	U	10	UJ	10	U	10	UJ
Tetrachloroethene	10	U	250	U	220	D	28		890	D
Toluene	2.1	J	1100	D	10	UJ	10	U	10	UJ
trans-1,2-Dichloroethene	10	U	250	U	10	UJ	10	U	10	UJ
trans-1,3-Dichloropropene	10	U	250	U	10	UJ	10	U	10	UJ
Trichloroethene	10	U	250	U	15	J	4.1	J	10	J
Trichlorofluoromethane	10	U	250	U	10	UJ	10	U	10	UJ
Vinyl chloride	10	U	250	U	10	UJ	10	U	10	UJ
Xylene, m/p	8.4	J	5800	D	10	UJ	10	U	10	UJ

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5403-04		X5286-01		X5286-02		X5191-01		X5313-03	
SDG	X5403		X5286		X5286		X5191		X5313	
Location	MW-5		MW-3		MW-4		MW-5		MW-6	
Field Sample Id	ATDCMW502001XX		ATMW00301601XX		ATMW00401601XX		ATMW00501601XX		ATMW00601601XX	
Field Sample Date	11/9/2006		11/6/2006		11/6/2006		11/8/2006		11/7/2006	
Qc Code	FS		FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	UJ	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	UJ	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	UJ	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	UJ	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	UJ	10	U	10	U	10	U	10	U
1,1-Dichloroethene	1.6	J	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	UJ	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	UJ	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	UJ	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	UJ	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	UJ	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	UJ	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	UJ	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	UJ	10	U	10	U	10	U	0.88	J
2-Butanone	50	UJ	50	U	50	U	50	U	50	U
2-Hexanone	50	UJ	50	U	50	U	50	U	50	U
4-Methyl-2-pentanone	50	UJ	50	U	50	U	50	U	50	U
Acetic acid, methyl ester	10	UJ	10	U	10	U	10	U	10	U
Acetone	4.8	JB	50	U	50	U	50	U	50	U
Benzene	1.8	J	10	U	89	J	10	U	3.8	J
Bromodichloromethane	10	UJ	10	U	10	U	10	U	10	U
Bromoform	10	UJ	10	U	10	U	10	U	10	U
Bromomethane	10	UJ	10	U	10	U	10	U	10	UJ
Carbon disulfide	10	UJ	10	U	10	U	10	U	10	U
Carbon tetrachloride	10	UJ	10	U	10	U	10	U	10	U
Chlorobenzene	10	UJ	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	UJ	10	U	10	U	10	U	10	U
Chloroethane	10	UJ	10	U	10	U	10	U	10	U
Chloroform	10	UJ	10	U	10	U	10	U	10	U
Chloromethane	10	UJ	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	1500	D	10	U	2.7	J	10	U	10	U
cis-1,3-Dichloropropene	10	UJ	10	U	10	U	10	U	10	U
Cyclohexane	10	UJ	10	U	63	J	10	U	160	
Dichlorodifluoromethane	10	UJ	10	U	10	U	10	U	10	U

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5403-04		X5286-01		X5286-02		X5191-01		X5313-03	
	SDG	X5403		X5286		X5286		X5191		X5313	
	Location	MW-5		MW-3		MW-4		MW-5		MW-6	
	Field Sample Id	ATDCMW502001XX		ATMW00301601XX		ATMW00401601XX		ATMW00501601XX		ATMW00601601XX	
	Field Sample Date	11/9/2006		11/6/2006		11/6/2006		11/8/2006		11/7/2006	
	Qc Code	FS		FS		FS		FS		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Ethyl benzene		7.1	J	10	U	5.2	J	10	U	9.4	J
Isopropylbenzene		14	J	10	U	5.3	J	10	U	36	
Methyl cyclohexane		10	UJ	10	U	26	J	10	U	180	
Methyl Tertbutyl Ether		10	UJ	10	U	10	U	10	U	10	U
Methylene chloride		10	UJ	10	U	10	U	10	U	10	U
o-Xylene		80	J	10	U	2.6	J	10	U	10	U
Styrene		10	UJ	10	U	10	U	10	U	10	U
Tetrachloroethene		79	J	10	U	10	U	10	U	10	U
Toluene		6.3	J	10	U	6.1	J	10	U	1.4	J
trans-1,2-Dichloroethene		2.2	J	10	U	10	U	10	U	1.2	J
trans-1,3-Dichloropropene		10	UJ	10	U	10	U	10	U	10	U
Trichloroethene		11	J	10	U	10	U	10	U	10	U
Trichlorofluoromethane		10	UJ	10	U	10	U	10	UJ	10	U
Vinyl chloride		130	J	10	U	3.1	J	10	U	10	U
Xylene, m/p		31	J	10	U	6.8	J	10	U	2.8	J

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5313-04RE		X5191-02		X5191-03		X5403-05		X5191-08	
SDG	X5313		X5191		X5191		X5403		X5191	
Location	MW-7		MW-8		MW-8		MW-9		QC	
Field Sample Id	ATMW00701601XX		ATMW00801601XX		ATMW00801601XD		ATMW00901701XX		ATTB003XXX01XX	
Field Sample Date	11/7/2006		11/8/2006		11/8/2006		11/9/2006		11/8/2006	
Qc Code	FS		FS		FD		FS		TB	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	1.1	J	10	UJ	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	UJ	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	10	U	10	UJ	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	UJ	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	UJ	10	U	10	U
1,1-Dichloroethene	10	U	10	U	10	UJ	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	UJ	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	UJ	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	UJ	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	UJ	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	UJ	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	UJ	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	UJ	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	UJ	10	U	10	U
2-Butanone	50	U	50	U	50	UJ	50	U	50	U
2-Hexanone	50	U	50	U	50	UJ	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	UJ	50	U	50	U
Acetic acid, methyl ester	10	U	10	U	10	UJ	10	U	10	U
Acetone	50	U	50	U	50	UJ	50	U	6.9	JB
Benzene	10	U	10	U	10	UJ	10		10	U
Bromodichloromethane	10	U	10	U	10	UJ	10	U	10	U
Bromoform	10	U	10	U	10	UJ	10	U	10	U
Bromomethane	10	U	10	U	10	UJ	10	U	10	U
Carbon disulfide	10	U	10	U	10	UJ	10	U	10	U
Carbon tetrachloride	10	U	10	U	10	UJ	10	U	10	U
Chlorobenzene	10	U	10	U	10	UJ	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	UJ	10	U	10	U
Chloroethane	10	U	10	U	10	UJ	10	U	10	U
Chloroform	10	U	10	U	10	UJ	10	U	2	J
Chloromethane	10	U	10	U	10	UJ	10	U	10	U
Cis-1,2-Dichloroethene	10	U	3	J	2.7	J	32		10	U
cis-1,3-Dichloropropene	10	U	10	U	10	UJ	10	U	10	U
Cyclohexane	10	U	10	U	10	UJ	18		10	U
Dichlorodifluoromethane	10	U	10	U	10	UJ	10	U	10	U

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5313-04RE		X5191-02		X5191-03		X5403-05		X5191-08	
	SDG	X5313		X5191		X5191		X5403		X5191	
	Location	MW-7		MW-8		MW-8		MW-9		QC	
	Field Sample Id	ATMW00701601XX		ATMW00801601XX		ATMW00801601XD		ATMW00901701XX		ATTB003XXX01XX	
	Field Sample Date	11/7/2006		11/8/2006		11/8/2006		11/9/2006		11/8/2006	
	Qc Code	FS		FS		FD		FS		TB	
Parameter		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Ethyl benzene		10	U	10	U	10	UJ	31		10	U
Isopropylbenzene		10	U	10	U	10	UJ	5.1	J	10	U
Methyl cyclohexane		10	U	10	U	10	UJ	5.7	J	10	U
Methyl Tertbutyl Ether		20	J	10	J	11	J	14		10	U
Methylene chloride		10	U	10	U	10	UJ	10	UJ	10	U
o-Xylene		10	U	10	U	10	UJ	21		10	U
Styrene		10	U	10	U	10	UJ	10	U	10	U
Tetrachloroethene		10	U	10	U	10	UJ	12		10	U
Toluene		10	U	10	U	10	UJ	7.5	J	10	U
trans-1,2-Dichloroethene		10	U	10	U	10	UJ	10	U	10	U
trans-1,3-Dichloropropene		10	U	10	U	10	UJ	10	U	10	U
Trichloroethene		10	U	5.3	J	5.8	J	12		10	U
Trichlorofluoromethane		10	U	10	U	10	UJ	10	U	10	U
Vinyl chloride		10	U	10	U	10	UJ	10	U	10	U
Xylene, m/p		10	U	10	U	10	UJ	54		10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.1: Groundwater VOC Results

Lab Sample Id	X5286-14		X5313-05		X5313-08		X5313-22		X5544-01	
SDG	X5286		X5313		X5313		X5313		X5544	
Location	QC		QC		QC		QC		QC	
Field Sample Id	ATTB001XXX01XX		ATEB001XXX01XX		ATEB002XXX01XX		ATTB002XXX01XX		ATTB005XXX01XX	
Field Sample Date	11/6/2006		11/7/2006		11/7/2006		11/7/2006		11/17/2006	
Qc Code	TB		EB		EB		TB		TB	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
2-Butanone	50	U	50	U	50	U	50	U	50	U
2-Hexanone	50	U	50	U	50	U	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	U	50	U	50	U
Acetic acid, methyl ester	10	U	10	U	10	U	10	U	10	U
Acetone	10	J	50	U	7.2	JB	9.8	J	50	U
Benzene	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	10	U	10	U	10	U	10	U	10	U
Carbon tetrachloride	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	1.2	J	1.2	J	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Dichlorodifluoromethane	10	U	10	U	10	U	10	U	10	U

Table 1.1: Groundwater VOC Results

	Lab Sample Id	X5286-14		X5313-05		X5313-08		X5313-22		X5544-01	
	SDG	X5286		X5313		X5313		X5313		X5544	
	Location	QC		QC		QC		QC		QC	
	Field Sample Id	ATTB001XXX01XX		ATEB001XXX01XX		ATEB002XXX01XX		ATTB002XXX01XX		ATTB005XXX01XX	
	Field Sample Date	11/6/2006		11/7/2006		11/7/2006		11/7/2006		11/17/2006	
	Qc Code	TB		EB		EB		TB		TB	
Parameter		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Ethyl benzene		10	U	10	U	10	U	10	U	10	U
Isopropylbenzene		10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane		10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether		10	U	10	U	10	U	10	U	10	U
Methylene chloride		1	J	10	U	10	U	1.4	J	10	U
o-Xylene		10	U	10	U	10	U	10	U	10	U
Styrene		10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		10	U	10	U	10	U	10	U	10	U
Toluene		10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene		10	U	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene		10	U	10	U	10	U	10	U	10	U
Trichloroethene		10	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane		10	U	10	U	10	U	10	UJ	10	U
Vinyl chloride		10	U	10	U	10	U	10	U	10	U
Xylene, m/p		10	U	10	U	10	U	10	U	10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result
B = Analyte was detected in the method blank
D = Result was reported from a diluted analytical run.

Table 1.2: Groundwater SVOC Results

Lab Sample Id	X5191-04		X5313-14		X5313-18		X5403-12		X5403-19		X5313-01	
SDG	X5191		X5313		X5313		X5403		X5403		X5313	
Location	GW-4		GW-9		GW-13		GW-20		MW-1		MW-1R	
Field Sample Id	ATGW00401701XX		ATGW00901701XX		ATGW01301701XX		ATGW02002601XX		ATMW01R01701XX		ATMW00101701XX	
Field Sample Date	11/8/2006		11/7/2006		11/7/2006		11/9/2006		11/9/2006		11/7/2006	
Qc Code	FS		FS		FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
2,4,5-Trichlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	20	UJ	20	U	20	U	21	UJ	20	UJ	20	U
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U	10	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U	10	U
2-Methylphenol	10	U	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	10	U	10	U	10	U	10	U	10	U	10	U
3,3`-Dichlorobenzidine	20	U	20	U	20	U	21	U	20	U	20	U
3-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	21	U	20	U	20	U
4-Bromophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-methylphenol	10	U	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	10	U	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitrophenol	20	U	20	U	20	U	21	U	20	U	20	U
Acenaphthene	10	U	10	U	10	UJ	10	U	10	U	10	U
Acenaphthylene	10	U	10	U	10	U	10	U	10	U	10	U
Acetophenone	10	U	10	U	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U	10	U	10	U
Atrazine	10	U	10	U	10	U	10	U	10	U	10	U
Benzaldehyde	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(ghi)perylene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U	10	U	10	U
Biphenyl	10	U	10	U	10	U	10	U	10	U	10	U
Bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U	10	U
Bis(2-Chloroethyl)ether	10	U	10	U	10	U	10	U	10	U	10	U
Bis(2-Chloroisopropyl)ether	10	U	10	U	10	U	10	U	10	U	10	U

Table 1.2: Groundwater SVOC Results

	Lab Sample Id	X5191-04		X5313-14		X5313-18		X5403-12		X5403-19		X5313-01	
	SDG	X5191		X5313		X5313		X5403		X5403		X5313	
	Location	GW-4		GW-9		GW-13		GW-20		MW-1		MW-1R	
	Field Sample Id	ATGW00401701XX		ATGW00901701XX		ATGW01301701XX		ATGW02002601XX		ATMW01R01701XX		ATMW00101701XX	
	Field Sample Date	11/8/2006		11/7/2006		11/7/2006		11/9/2006		11/9/2006		11/7/2006	
	Qc Code	FS		FS		FS		FS		FS		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Bis(2-Ethylhexyl)phthalate		10	U	10	U	10	U	4.9	J	10	U	10	U
Butylbenzylphthalate		10	U	10	U	10	U	10	U	10	U	10	U
Caprolactum		10	U	10	U	10	U	10	U	10	U	10	U
Carbazole		10	U	10	U	10	U	10	U	10	U	10	U
Chrysene		10	U	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate		10	U	10	U	2.7	J	10	U	10	U	10	U
Di-n-octylphthalate		10	U	10	U	10	U	10	U	10	U	10	U
Dibenz(a,h)anthracene		10	U	10	U	10	U	10	U	10	U	10	U
Dibenzofuran		10	U	10	U	10	U	10	U	10	U	10	U
Diethylphthalate		10	U	10	U	10	U	10	U	10	U	10	U
Dimethylphthalate		10	U	10	U	10	U	10	U	10	U	10	U
Fluoranthene		10	U	10	U	10	U	10	U	10	U	10	U
Fluorene		10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene		10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene		10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene		10	UJ	10	U	10	U	10	UJ	10	UJ	10	U
Hexachloroethane		10	U	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene		10	U	10	U	10	U	10	U	10	U	10	U
Isophorone		10	U	10	U	10	U	10	U	10	U	10	U
N-Nitrosodi-n-propylamine		10	U	10	U	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine		10	U	10	U	10	U	10	U	10	U	10	U
Naphthalene		10	U	10	U	10	U	10	U	10	U	10	U
Nitrobenzene		10	U	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol		20	U	20	U	20	U	21	U	20	U	20	U
Phenanthrene		10	U	10	U	10	U	10	U	10	U	10	U
Phenol		10	U	10	U	10	U	10	U	10	U	10	U
Pyrene		10	U	10	U	10	U	10	U	10	U	10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for SVOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result

Table 1.2: Groundwater SVOC Results

Lab Sample Id	X5313-02		X5286-01		X5286-02		X5191-01		X5313-03		X5313-04	
SDG	X5313		X5286		X5286		X5191		X5313		X5313	
Location	MW-2		MW-3		MW-4		MW-5		MW-6		MW-7	
Field Sample Id	ATMW00201601XX		ATMW00301601XX		ATMW00401601XX		ATMW00501601XX		ATMW00601601XX		ATMW00701601XX	
Field Sample Date	11/7/2006		11/6/2006		11/6/2006		11/8/2006		11/7/2006		11/7/2006	
Qc Code	FS		FS		FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
2,4,5-Trichlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dimethylphenol	22		10	U	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	20	U	20	UJ	20	UJ	20	UJ	20	U	20	U
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U	10	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	53		10	U	10	U	10	U	10	U	10	U
2-Methylphenol	10	U	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	10	U	10	U	10	U	10	U	10	U	10	U
3,3`-Dichlorobenzidine	20	U	20	U	20	U	20	U	20	U	20	U
3-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U	20	U	20	U
4-Bromophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-methylphenol	10	U	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	10	U	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	9.9	J	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitrophenol	20	U	20	U	20	U	20	U	20	U	20	U
Acenaphthene	10	U	10	U	10	U	10	U	10	U	10	U
Acenaphthylene	10	U	10	U	10	U	10	U	10	U	10	U
Acetophenone	10	U	10	U	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U	10	U	10	U
Atrazine	10	U	10	U	10	U	10	U	10	U	10	U
Benzaldehyde	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(ghi)perylene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U	10	U	10	U
Biphenyl	10	U	10	U	10	U	10	U	10	U	10	U
Bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U	10	U
Bis(2-Chloroethyl)ether	10	U	10	U	10	U	10	U	10	U	10	U
Bis(2-Chloroisopropyl)ether	10	U	10	U	10	U	10	U	10	U	10	U

Table 1.2: Groundwater SVOC Results

	Lab Sample Id	X5313-02		X5286-01		X5286-02		X5191-01		X5313-03		X5313-04	
	SDG	X5313		X5286		X5286		X5191		X5313		X5313	
	Location	MW-2		MW-3		MW-4		MW-5		MW-6		MW-7	
	Field Sample Id	ATMW00201601XX		ATMW00301601XX		ATMW00401601XX		ATMW00501601XX		ATMW00601601XX		ATMW00701601XX	
	Field Sample Date	11/7/2006		11/6/2006		11/6/2006		11/8/2006		11/7/2006		11/7/2006	
	Qc Code	FS		FS		FS		FS		FS		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Bis(2-Ethylhexyl)phthalate		10	U	10	U	10	U	10	U	10	U	10	U
Butylbenzylphthalate		10	U	10	U	10	U	10	U	10	U	10	U
Caprolactum		10	U	10	U	10	U	10	U	10	U	10	U
Carbazole		10	U	10	U	10	U	10	U	10	U	10	U
Chrysene		10	U	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate		10	U	10	U	10	U	10	U	10	U	10	U
Di-n-octylphthalate		10	U	10	U	10	U	10	U	10	U	10	U
Dibenz(a,h)anthracene		10	U	10	U	10	U	10	U	10	U	10	U
Dibenzofuran		10	U	10	U	10	U	10	U	10	U	10	U
Diethylphthalate		10	U	10	U	10	U	10	U	10	U	10	U
Dimethylphthalate		10	U	10	U	10	U	10	U	10	U	10	U
Fluoranthene		10	U	10	U	10	U	10	U	10	U	10	U
Fluorene		10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene		10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene		10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene		10	U	10	U	10	U	10	U	10	U	10	U
Hexachloroethane		10	U	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene		10	U	10	U	10	U	10	U	10	U	10	U
Isophorone		10	U	10	U	10	U	10	U	10	U	10	U
N-Nitrosodi-n-propylamine		10	U	10	U	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine		10	U	10	U	10	U	10	U	10	U	10	U
Naphthalene		240	D	10	U	10	U	10	U	10	U	10	U
Nitrobenzene		10	U	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol		20	U	20	U	20	U	20	U	20	U	20	U
Phenanthrene		10	U	10	U	10	U	10	U	10	U	10	U
Phenol		17		10	U	10	U	10	U	10	U	10	U
Pyrene		10	U	10	U	10	U	10	U	10	U	10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for SVOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result

Table 1.2: Groundwater SVOC Results

	Lab Sample Id	X5191-02		X5191-03		X5403-05	
	SDG	X5191		X5191		X5403	
	Location	MW-8		MW-8		MW-9	
	Field Sample Id	ATMW00801601XX		ATMW00801601XD		ATMW00901701XX	
	Field Sample Date	11/8/2006		11/8/2006		11/9/2006	
	Qc Code	FS		FD		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
2,4,5-Trichlorophenol		10	U	10	U	10	U
2,4,6-Trichlorophenol		10	U	10	U	10	U
2,4-Dichlorophenol		10	U	10	U	10	U
2,4-Dimethylphenol		10	U	10	U	10	U
2,4-Dinitrophenol		20	UJ	20	UJ	20	UJ
2,4-Dinitrotoluene		10	U	10	U	10	U
2,6-Dinitrotoluene		10	U	10	U	10	U
2-Chloronaphthalene		10	U	10	U	10	U
2-Chlorophenol		10	U	10	U	10	U
2-Methylnaphthalene		10	U	10	U	10	U
2-Methylphenol		10	U	10	U	10	U
2-Nitroaniline		10	U	10	U	10	U
2-Nitrophenol		10	U	10	U	10	U
3,3`-Dichlorobenzidine		20	U	20	U	20	U
3-Nitroaniline		10	U	10	U	10	U
4,6-Dinitro-2-methylphenol		20	U	20	U	20	U
4-Bromophenyl phenyl ether		10	U	10	U	10	U
4-Chloro-3-methylphenol		10	U	10	U	10	U
4-Chloroaniline		10	U	10	U	10	U
4-Chlorophenyl phenyl ether		10	U	10	U	10	U
4-Methylphenol		10	U	10	U	10	U
4-Nitroaniline		10	U	10	U	10	U
4-Nitrophenol		20	U	20	U	20	U
Acenaphthene		10	U	10	U	10	U
Acenaphthylene		10	U	10	U	10	U
Acetophenone		10	U	10	U	10	U
Anthracene		10	U	10	U	10	U
Atrazine		10	U	10	U	10	U
Benzaldehyde		10	U	10	U	10	U
Benzo(a)anthracene		10	U	10	U	10	U
Benzo(a)pyrene		10	U	10	U	10	U
Benzo(b)fluoranthene		10	U	10	U	10	U
Benzo(ghi)perylene		10	U	10	U	10	U
Benzo(k)fluoranthene		10	U	10	U	10	U
Biphenyl		10	U	10	U	10	U
Bis(2-Chloroethoxy)methane		10	U	10	U	10	U
Bis(2-Chloroethyl)ether		10	U	10	U	10	U
Bis(2-Chloroisopropyl)ether		10	U	10	U	10	U

Table 1.2: Groundwater SVOC Results

	Lab Sample Id	X5191-02		X5191-03		X5403-05	
	SDG	X5191		X5191		X5403	
	Location	MW-8		MW-8		MW-9	
	Field Sample Id	ATMW00801601XX		ATMW00801601XD		ATMW00901701XX	
	Field Sample Date	11/8/2006		11/8/2006		11/9/2006	
	Qc Code	FS		FD		FS	
Parameter		Result	Qualifier	Result	Qualifier	Result	Qualifier
Bis(2-Ethylhexyl)phthalate		10	U	10	U	10	U
Butylbenzylphthalate		10	U	10	U	10	U
Caprolactum		10	U	10	U	10	U
Carbazole		10	U	10	U	10	U
Chrysene		10	U	10	U	10	U
Di-n-butylphthalate		10	U	10	U	10	U
Di-n-octylphthalate		10	U	10	U	10	U
Dibenz(a,h)anthracene		10	U	10	U	10	U
Dibenzofuran		10	U	10	U	10	U
Diethylphthalate		10	U	10	U	10	U
Dimethylphthalate		10	U	10	U	10	U
Fluoranthene		10	U	10	U	10	U
Fluorene		10	U	10	U	10	U
Hexachlorobenzene		10	U	10	U	10	U
Hexachlorobutadiene		10	U	10	U	10	U
Hexachlorocyclopentadiene		10	U	10	UJ	10	UJ
Hexachloroethane		10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene		10	U	10	U	10	U
Isophorone		10	U	10	U	10	U
N-Nitrosodi-n-propylamine		10	U	10	U	10	U
N-Nitrosodiphenylamine		10	U	10	U	10	U
Naphthalene		10	U	10	U	10	U
Nitrobenzene		10	U	10	U	10	U
Pentachlorophenol		20	U	20	U	20	U
Phenanthrene		10	U	10	U	10	U
Phenol		10	U	10	U	10	U
Pyrene		10	U	10	U	10	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for SVOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Result

Appendix E
Table 1.3: Soil VOC Results

Lab Sample Id	X5286-03		X5286-06	
SDG	X5286		X5286	
Location	GS-1		GS-8	
Field Sample Id	ATGS00100701XX		ATGS00800801XX	
Field Sample Date	11/6/2006		11/6/2006	
Qc Code	FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	13	U	11	U
1,1,2,2-Tetrachloroethane	13	U	11	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	13	U	11	U
1,1,2-Trichloroethane	13	U	11	U
1,1-Dichloroethane	13	U	11	U
1,1-Dichloroethene	13	U	11	U
1,2,4-Trichlorobenzene	13	U	11	U
1,2-Dibromo-3-chloropropane	13	U	11	U
1,2-Dibromoethane	13	U	11	U
1,2-Dichlorobenzene	13	U	11	U
1,2-Dichloroethane	13	U	11	U
1,2-Dichloropropane	13	U	11	U
1,3-Dichlorobenzene	13	U	11	U
1,4-Dichlorobenzene	13	U	11	U
2-Butanone	66	U	57	U
2-Hexanone	66	U	57	U
4-Methyl-2-pentanone	66	U	57	U
Acetic acid, methyl ester	13	U	11	U
Acetone	66	U	57	U
Benzene	13	U	11	U
Bromodichloromethane	13	U	11	U
Bromoform	13	U	11	U
Bromomethane	13	U	11	U
Carbon disulfide	13	U	11	U
Carbon tetrachloride	13	U	11	U
Chlorobenzene	13	U	11	U
Chlorodibromomethane	13	U	11	U
Chloroethane	13	U	11	U
Chloroform	13	U	11	U
Chloromethane	13	U	11	U
Cis-1,2-Dichloroethene	25		11	U
cis-1,3-Dichloropropene	13	U	11	U
Cyclohexane	13	U	11	U
Dichlorodifluoromethane	13	U	11	U
Ethyl benzene	13	U	11	U
Isopropylbenzene	13	U	11	U
Methyl cyclohexane	13	U	11	U
Methyl Tertbutyl Ether	13	U	11	U
Methylene chloride	13	U	11	U
o-Xylene	13	U	11	U
Styrene	13	U	11	U
Tetrachloroethene	2700	D	11	U
Toluene	2.4	J	11	U

Appendix E
Table 1.3: Soil VOC Results

	Lab Sample Id	X5286-03		X5286-06	
	SDG	X5286		X5286	
	Location	GS-1		GS-8	
	Field Sample Id	ATGS00100701XX		ATGS00800801XX	
	Field Sample Date	11/6/2006		11/6/2006	
	Qc Code	FS		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**
trans-1,2-Dichloroethene		13	U	11	U
trans-1,3-Dichloropropene		13	U	11	U
Trichloroethene		32000	D	4.2	J
Trichlorofluoromethane		13	U	11	U
Vinyl chloride		13	U	11	U
Xylene, m/p		13	U	11	U

Notes:
Results in micrograms per kilogram (µg/kg)
Samples analyzed for VOCs by EPA Method OLM04.2
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Result was reported from a diluted analytical run

Table 1.4: Soil Vapor VOC Results

Lab Sample Id	X5191-06		X5191-07		X5403-14		X5887-01	
SDG	X5191		X5191		X5403		X5887	
Location	GV-01		GV-02		GV-03		SV-001	
Field Sample Id	ATGV00101201XX		ATGV00201001XX		ATGV00301201XX		ATSV00100101XX	
Field Sample Date	11/8/2006		11/8/2006		11/9/2006		12/19/2006	
Qc Code	FS		FS		FS		FS	
Parameter	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	5.44	U	298		5.44	U	13.1	
1,1,2,2-Tetrachloroethane	9.62		6.87	U	6.87	U	13.74	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.7		7.65	U	7.65	U	15.3	U
1,1,2-Trichloroethane	5.44	U	5.44	U	5.44	U	10.88	UJ
1,1-Dichloroethane	4.05	U	11.7		4.05	U	8.1	U
1,1-Dichloroethene	3.97	U	3.97	U	3.97	U	7.93	U
1,2,4-Trichlorobenzene	14.8	J	7.4	U	7.4	U	14.81	UJ
1,2,4-Trimethylbenzene	26		4.91	U	4.91	U	9.82	UJ
1,2-Dibromoethane	7.69	U	7.69	U	7.69	U	15.38	UJ
1,2-Dichloro-1,1,2,2-tetrafluoroethane	6.99	U	6.99	U	6.99	U	13.99	U
1,2-Dichlorobenzene	7.21		6.01	U	6.01	U	12.02	UJ
1,2-Dichloroethane	4.05	U	4.05	U	4.05	U	8.1	UJ
1,2-Dichloropropane	4.62	U	4.62	U	4.62	U	9.24	UJ
1,3,5-Trimethylbenzene	11.8		4.91	U	4.91	U	9.82	UJ
1,3-Dichlorobenzene	6.61		6.01	U	6.01	U	12.02	UJ
1,4-Dichlorobenzene	7.21		6.01	U	6.01	U	12.02	UJ
1,4-Dioxane	7.2	U	7.2	U	7.2	U	14.4	UJ
2-Butanone	5.89	U	16.5		5.89	U	11.78	UJ
2-Hexanone	8.18	U	8.18	U	8.18	U	16.36	UJ
2-Propanol	4.91	U	4.91	U	4.91	U	9.82	U
4-Ethyltoluene	13.7	J	4.91	UJ	4.91	U	9.82	UJ
4-Methyl-2-pentanone	8.18	U	8.18	U	8.18	U	16.36	UJ
Acetone	4.74	U	4.74	U	4.74	U	50.8	
Allyl chloride	3.15	U	3.15	U	3.15	U	6.3	U
Benzene	12.8		20.1		10.8		6.38	UJ
Benzyl chloride	5.77	U	5.77	U	5.77	U	11.53	UJ
Bromodichloromethane	6.71	U	6.71	U	6.71	U	13.42	UJ
Bromoform	12.4		10.35	U	10.35	U	20.7	UJ
Bromomethane	5.44		3.89	U	3.89	U	7.77	U
Butadiene, 1,3-	2.21	U	2.21	U	2.21	U	4.42	U
Carbon disulfide	3.11	U	3.11	U	3.11	U	6.22	U
Carbon tetrachloride	7.56		6.3	U	6.3	U	12.6	UJ
Chlorobenzene	6.01		4.62	U	4.62	U	9.24	UJ
Chlorodibromomethane	11.9		8.51	U	8.51	U	17.01	UJ
Chloroethane	3.72		2.66	U	2.66	U	5.32	U
Chloroform	17		37		27.7		23.4	
Chloromethane	2.04	U	2.04	U	2.04	U	4.09	U
Cis-1,2-Dichloroethene	6.35		20.2		3.97	U	129	
cis-1,3-Dichloropropene	4.54	U	4.54	U	4.54	U	9.08	UJ
Cyclohexane	3.35	UJ	32.5	J	3.35	U	6.71	U
Dichlorodifluoromethane	6.93		4.95	U	4.95	U	9.9	U
Ethyl acetate	3.6	U	3.6	U	3.6	U	7.2	U
Ethyl benzene	12.6		4.34	U	4.34	U	8.67	UJ
Heptane	16.8		55.6		20.9		8.18	U
Hexachlorobutadiene	10.67	U	10.67	U	10.67	U	21.35	UJ
Hexane	7.03	U	178		84.8		14.07	U
Isooctane	1166	J	4.66	U	4.66	U	41	J
Methyl Tertbutyl Ether	3.6	U	3.6	U	3.6	U	7.2	U
Methylene chloride	10.1		6.95	U	6.95	U	16	
o-Xylene	9.97		4.34	U	4.34	U	8.67	UJ
Propylene	1944	D	523	D	602	D	17.18	U
Styrene	4.25	U	4.25	U	4.25	U	8.51	UJ
Tetrachloroethene	17		38.7		31.9		1,310	J
Tetrahydrofuran	5.89	U	5.89	U	5.89	U	11.78	UJ
Toluene	19.6		46.3		9.78		7.53	UJ

Table 1.4: Soil Vapor VOC Results

	Lab Sample Id	X5191-06		X5191-07		X5403-14		X5887-01	
	SDG	X5191		X5191		X5403		X5887	
	Location	GV-01		GV-02		GV-03		SV-001	
	Field Sample Id	ATGV00101201XX		ATGV00201001XX		ATGV00301201XX		ATSV00100101XX	
	Field Sample Date	11/8/2006		11/8/2006		11/9/2006		12/19/2006	
	Qc Code	FS		FS		FS		FS	
Parameter		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
trans-1,2-Dichloroethene		6.35		5.95		3.97	U	14.3	
trans-1,3-Dichloropropene		4.54	U	4.54	U	4.54	U	9.08	UJ
Trichloroethene		5.36	U	1737	D	20.9		17472	EDJ
Trichlorofluoromethane		6.72		5.6	U	5.6	U	11.21	U
Vinyl acetate		3.52	U	3.52	U	3.52	U	7.03	U
Vinyl bromide		4.38	U	4.38	U	4.38	U	8.75	U
Vinyl chloride		3.07		2.56	U	2.56	U	5.11	U
Xylene, m/p		52.9		11.3		8.67	U	17.34	UJ

Notes:
Results in micrograms per cubic meter (µg/m3)
Samples analyzed for VOCs by EPA Method TO-15
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated value
D = Analyte was reported from a diluted analytical run

Table 1.5: Groundwater TIC Results

Sample Name	Lab ID	Type	SDG	Method	Chemical Name	Result	Qualifier	Units
ATMW00501601XX	X5191-01	FS	X5191	OLM04.2_SVOA	Cyclohexadecane, 1,2-diethyl-	3.6	JN	ug/L
ATMW00501601XX	X5191-01	FS	X5191	OLM04.2_SVOA	Squalene	3.4	JN	ug/L
ATMW00801601XX	X5191-02	FS	X5191	OLM04.2_SVOA	1-Docosene	2.8	JN	ug/L
ATMW00801601XD	X5191-03	FD	X5191	OLM04.2_SVOA	1-Tricosene	3.9	JN	ug/L
ATMW00801601XD	X5191-03	FD	X5191	OLM04.2_SVOA	n-Hexadecanoic acid	2.4	JN	ug/L
ATMW00801601XD	X5191-03	FD	X5191	OLM04.2_SVOA	Squalene	3.9	JN	ug/L
ATGW00401701XX	X5191-04	FS	X5191	OLM04.2_SVOA	Cycloeicosane	2.8	JN	ug/L
ATMW00301601XX	X5286-01	FS	X5286	OLM04.2_SVOA	unknown2.74	3.1	J	ug/L
ATMW00301601XX	X5286-01	FS	X5286	OLM04.2_SVOA	1-Propene, 1,2,3-trichloro-, (E)-	3.3	JN	ug/L
ATMW00301601XX	X5286-01	FS	X5286	OLM04.2_SVOA	1,2-Benzenedicarboxylic acid, buty	2.4	JN	ug/L
ATMW00301601XX	X5286-01	FS	X5286	OLM04.2_SVOA	unknown9.59	3.6	J	ug/L
ATMW00301601XX	X5286-01	FS	X5286	OLM04.2_SVOA	Octadec-9-enoic acid	6.6	JN	ug/L
ATMW00301601XX	X5286-01	FS	X5286	OLM04.2_SVOA	Heneicosane	2.2	JN	ug/L
ATMW00301601XX	X5286-01	FS	X5286	OLM04.2_SVOA	Octadecane	2.7	JN	ug/L
ATMW00301601XX	X5286-01	FS	X5286	OLM04.2_SVOA	Squalene	7.0	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_VOA	Cyclopentene	14	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_VOA	Pentane, 3-methyl-	14	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	unknown2.31	4.8	J	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_VOA	Cyclopentane, methyl-	51	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	Cyclopentanol, 1-methyl-	5.5	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_VOA	Cyclopropane, 1-methyl-2-octyl-	21	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	2-Pentanol, 2,3-dimethyl-	4.0	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_VOA	2-Pentene, 3,4-dimethyl-, (Z)-	15	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_VOA	Cyclohexene, 4-methyl-	37	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	1-Methylcyclohexanol	12	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_VOA	Cyclohexene, 1-methyl-	19	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	Benzene, (1-methylethyl)-	3.7	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_VOA	Diisopropyl sulfide	16	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	Benzene, propyl-	3.7	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_VOA	Benzene, 1,2,4,5-tetramethyl-	11	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	Indene	5.5	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	unknown4.50	3.5	J	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	unknown4.78	2.9	J	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	Benzene, 1,2,4,5-tetramethyl-	5.8	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	unknown5.13	8.1	J	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	Naphthalene, 1,2,3,4-tetrahydro-1-	6.6	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	unknown6.00	3.8	J	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	unknown6.22	3.6	J	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	unknown6.54	3.0	J	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	n-Hexadecanoic acid	6.2	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	6-Octadecenoic acid, (Z)-	8.8	JN	ug/L
ATMW00401601XX	X5286-02	FS	X5286	OLM04.2_SVOA	1-Docosene	5.0	JN	ug/L
ATGW00102001XX	X5286-07	FS	X5286	OLM04.2_VOA	Cyclopropane	5.7	JN	ug/L

Table 1.5: Groundwater TIC Results

Sample Name	Lab ID	Type	SDG	Method	Chemical Name	Result	Qualifier	Units
ATGW01002901XX	X5286-13	FS	X5286	OLM04.2_VOA	Cyclopropane	5.1	JN	ug/L
ATGW01002901XX	X5286-13RE	FS	X5286	OLM04.2_VOA	Propene	7.0	JN	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_SVOA	2-Butanol, 2,3-dimethyl-	5.7	JN	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_SVOA	unknown4.43	6.2	J	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_SVOA	Octadec-9-enoic acid	4.1	JN	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_SVOA	Tridecane, 1-iodo-	2.1	JN	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_SVOA	unknown10.35	4.6	J	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_SVOA	Cyclotetracosane	5.6	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_SVOA	Benzene, 1-ethyl-3-methyl-	26	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_SVOA	Benzene, 1,2,3-trimethyl-	51	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_SVOA	unknown4.29	20	J	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_SVOA	Benzene, 1-methyl-3-(1-methylethyl	9.2	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_SVOA	Benzene, 1,2,3,4-tetramethyl-	5.3	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_SVOA	Benzene, 2-ethenyl-1,4-dimethyl-	9.6	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_SVOA	Benzene, 1-ethyl-3-methyl-	120	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_SVOA	Benzene, 1,3,5-trimethyl-	83	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_SVOA	Unknown4.02	260	J	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_SVOA	Benzene, 1,2,3-trimethyl-	100	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_SVOA	Benzene, 2-ethyl-1,4-dimethyl-	37	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_SVOA	Benzene, 1,2,3,5-tetramethyl-	59	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_SVOA	1-Phenyl-1-butene	100	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	unknown2.98	7.1	J	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	unknown3.74	3.8	J	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	3-Ethylcyclopentanone	5.6	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	Benzene, 1,2,3-trimethyl-	15	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	Benzene, 1,3-diethyl-	10	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	Benzene, 1-ethyl-2,3-dimethyl-	4.0	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	Benzene, 1-methyl-2-propyl-	8.1	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	Benzene, 1,2,3,5-tetramethyl-	12	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	unknown4.92	5.3	J	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	Indan, 1-methyl-	5.2	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	1-Phenyl-1-butene	34	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	Benzenemethanol, 3,5-dimethyl-	3.9	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	Naphthalene, 1-methyl-	8.9	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	unknown7.27	14	J	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	unknown7.61	4.5	J	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	unknown7.94	4.5	J	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	unknown8.80	4.5	J	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	n-Hexadecanoic acid	8.3	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_SVOA	Octadec-9-enoic acid	20	JN	ug/L
ATMW00701601XX	X5313-04	FS	X5313	OLM04.2_SVOA	Cyclotrisiloxane, hexamethyl-	2.6	JN	ug/L
ATMW00701601XX	X5313-04	FS	X5313	OLM04.2_SVOA	Benzoic acid, 2,4-dichloro-	3.1	JN	ug/L
ATMW00701601XX	X5313-04	FS	X5313	OLM04.2_SVOA	n-Hexadecanoic acid	3.7	JN	ug/L

Table 1.5: Groundwater TIC Results

Sample Name	Lab ID	Type	SDG	Method	Chemical Name	Result	Qualifier	Units
ATMW00701601XX	X5313-04	FS	X5313	OLM04.2_SVOA	9-Octadecenoic acid, (E)-	12	JN	ug/L
ATMW00701601XX	X5313-04	FS	X5313	OLM04.2_SVOA	5-Eicosene, (E)-	4.5	JN	ug/L
ATMW00701601XX	X5313-04	FS	X5313	OLM04.2_SVOA	Squalene	4.1	JN	ug/L
ATGW00901701XX	X5313-14	FS	X5313	OLM04.2_SVOA	n-Hexadecanoic acid	2.8	JN	ug/L
ATGW00901701XX	X5313-14	FS	X5313	OLM04.2_SVOA	6-Octadecenoic acid, (Z)-	13	JN	ug/L
ATGW00901701XX	X5313-14	FS	X5313	OLM04.2_SVOA	1-Docosene	6.4	JN	ug/L
ATGW01301701XX	X5313-18	FS	X5313	OLM04.2_SVOA	Propanoic acid, 2-methyl-, 2,2-dim	2.2	JN	ug/L
ATGW01301701XX	X5313-18	FS	X5313	OLM04.2_SVOA	unknown7.43	2.1	J	ug/L
ATGW01301701XX	X5313-18	FS	X5313	OLM04.2_SVOA	9-Octadecenoic acid, (E)-	6.0	JN	ug/L
ATGW01301701XX	X5313-18	FS	X5313	OLM04.2_SVOA	1-Heneicosyl formate	2.9	JN	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_VOA	Butane	16	JN	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_VOA	Butane, 2-methyl-	29	JN	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_VOA	Pentane	10	JN	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_VOA	Pentane, 2-methyl-	33	JN	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_VOA	Pentane, 3-methyl-	12	JN	ug/L
ATMW00101701XX	X5313-01	FS	X5313	OLM04.2_VOA	Cyclopentane, methyl-	15	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_VOA	2-Butene, 2-methyl-	160	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_VOA	Benzene, propyl-	170	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_VOA	Benzene, 1-ethyl-2-methyl-	1100	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_VOA	Benzene, 1,3,5-trimethyl-	500	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_VOA	Unknown19.5	430	J	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_VOA	Benzene, 1,2,3-trimethyl-	1100	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_VOA	Benzene, 1,2,4-trimethyl-	470	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_VOA	Indane	430	JN	ug/L
ATMW00201601XX	X5313-02	FS	X5313	OLM04.2_VOA	1H-Indene, 2,3-dihydro-5-methyl-	160	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_VOA	Butane	470	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_VOA	Butane, 2-methyl-	450	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_VOA	2-Methyl-1-butene	670	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_VOA	2-Butene, 2-methyl-	920	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_VOA	Benzene, 1-ethyl-3-methyl-	1300	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_VOA	Benzene, 1,3,5-trimethyl-	630	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_VOA	Benzene, 1-ethyl-2-methyl-	500	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_VOA	Benzene, 1,2,3-trimethyl-	2100	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_VOA	Benzene, 1,2,4-trimethyl-	530	JN	ug/L
ATMW00201601XX	X5313-02DL	FS	X5313	OLM04.2_VOA	Indane	470	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_VOA	Butane	41	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_VOA	Butane, 2-methyl-	70	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_VOA	Pentane, 2-methyl-	120	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_VOA	Pentane, 3-methyl-	68	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_VOA	Cyclopentane, methyl-	150	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_VOA	1-Hexanol, 3-methyl-	65	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_VOA	Indane	46	JN	ug/L
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_VOA	Benzene, (2-methyl-1-propenyl)-	36	JN	ug/L

Table 1.5: Groundwater TIC Results

Sample Name	Lab ID	Type	SDG	Method	Chemical Name	Result	Qualifier	Units
ATMW00601601XX	X5313-03	FS	X5313	OLM04.2_VOA	3-Phenylbut-1-ene	42	JN	ug/L
ATGW00502801XX	X5313-07	FS	X5313	OLM04.2_VOA	Propene	7.8	JN	ug/L
ATGW00902801XX	X5313-15	FS	X5313	OLM04.2_VOA	unknown1.85	5.8	J	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_SVOA	Tetrachloroethylene	3.4	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_SVOA	Hexanoic acid, 2,2-dimethyl-	8.9	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_SVOA	6-Octadecenoic acid, (Z)-	2.8	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_SVOA	1-Tricosene	4.1	JN	ug/L
ATGW02002601XX	X5403-12	FS	X5403	OLM04.2_SVOA	1-Eicosene	2.4	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	2-Butanol, 2,3-dimethyl-	3.6	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	Cyclopentanone	8.1	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	3-Pentanone, 2,2-dimethyl-	3.3	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	2-Cyclopenten-1-one	4.9	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	Cyclopentanone, 3-methyl-	14	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	Cyclopentanone, 2,3-dimethyl-	2.8	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	1,3-Cyclohexanedione	4.7	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	2-Cyclohexen-1-one	5.1	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	1-Hexanol, 2,2-dimethyl-	11	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	Furan, 2,4-dimethyl-	5.8	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	unknown4.44	2.9	J	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	unknown4.74	5.4	J	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	unknown4.91	3.6	J	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	unknown5.58	5.5	J	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	1H-Inden-1-one, 2,3-dihydro-	7.7	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	1-Methylindan-2-one	2.9	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	Benzene, 1-ethenyl-2-methyl-	3.0	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	Octadec-9-enoic acid	4.2	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_SVOA	Cyclohexadecane, 1,2-diethyl-	5.4	JN	ug/L
ATDCMW502001XX	X5403-04	FS	X5403	OLM04.2_VOA	Benzene, propyl-	35	JN	ug/L
ATDCMW502001XX	X5403-04	FS	X5403	OLM04.2_VOA	Benzene, 1-ethyl-3-methyl-	240	JN	ug/L
ATDCMW502001XX	X5403-04	FS	X5403	OLM04.2_VOA	Benzene, 1,3,5-trimethyl-	210	JN	ug/L
ATDCMW502001XX	X5403-04	FS	X5403	OLM04.2_VOA	Benzene, 1,2,4-trimethyl-	170	JN	ug/L
ATDCMW502001XX	X5403-04	FS	X5403	OLM04.2_VOA	Benzene, 1,2,3-trimethyl-	520	JN	ug/L
ATDCMW502001XX	X5403-04	FS	X5403	OLM04.2_VOA	Benzene, 1-methyl-2-(1-methylethyl	32	JN	ug/L
ATDCMW502001XX	X5403-04	FS	X5403	OLM04.2_VOA	Unknown20.88	360	J	ug/L
ATDCMW502001XX	X5403-04	FS	X5403	OLM04.2_VOA	Indane	75	JN	ug/L
ATDCMW502001XX	X5403-04	FS	X5403	OLM04.2_VOA	1,3,8-p-Menthatriene	33	JN	ug/L
ATDCMW502001XX	X5403-04	FS	X5403	OLM04.2_VOA	Benzene, 1-methyl-3-(1-methylethyl	31	JN	ug/L
ATDCMW502001XX	X5403-04DL	FS	X5403	OLM04.2_VOA	Benzene, 1,2,3-trimethyl-	380	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_VOA	Butane	100	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_VOA	Butane, 2-methyl-	97	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_VOA	Cyclopropane, 1,2-dimethyl-, cis-	25	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_VOA	Pentane, 2-methyl-	37	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_VOA	unknown2.11	29	J	ug/L

Table 1.5: Groundwater TIC Results

Sample Name	Lab ID	Type	SDG	Method	Chemical Name	Result	Qualifier	Units
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_VOA	unknown3.11	67	J	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_VOA	Benzene, 1-ethyl-2-methyl-	35	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_VOA	Benzene, 1,2,3-trimethyl-	28	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_VOA	Benzene, 1,3,5-trimethyl-	72	JN	ug/L
ATMW00901701XX	X5403-05	FS	X5403	OLM04.2_VOA	Benzene, 1-ethyl-3-methyl-	21	JN	ug/L
ATGW02003401XX	X5403-13RE	FS	X5403	OLM04.2_VOA	unknown1.07	14	J	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_VOA	Butane	240	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_VOA	Butane, 2-methyl-	270	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_VOA	Cyclopropane, 1,2-dimethyl-, cis-	190	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_VOA	2-Butene, 2-methyl-	250	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_VOA	Cyclopentene	160	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_VOA	Cyclopentane, methyl-	130	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_VOA	Benzene, 1-ethyl-2-methyl-	100	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_VOA	Benzene, 1,3,5-trimethyl-	270	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_VOA	Benzene, 1,2,3-trimethyl-	68	JN	ug/L
ATMW01R01701XX	X5403-19	FS	X5403	OLM04.2_VOA	Benzene, cyclopropyl-	68	JN	ug/L

Notes:
J = estimated concentration
N = uncertain identification

DATA USABILITY SUMMARY REPORT
AUGUST 2007 SAMPLING EVENT
ASSOCIATED TEXTILES
ELMIRA, NEW YORK

1.0 Introduction:

Twelve soil and nineteen groundwater samples were collected by MACTEC at the Associated Textiles site in August 2007 and submitted for off-site laboratory analyses. Samples were analyzed by Chemtech located in Mountainside, NJ. A listing of samples included in this investigation is presented in Table 1. Samples were analyzed for the following parameter:

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- Volatile organic compounds (VOCs) by EPA Method OLM04.3.

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2000).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. With the exception of the items discussed below, results are interpreted to be usable as reported by the laboratory. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected above the reported detection limit
UJ = target analyte is not detected at the reported detection limit and is estimated
J = concentration is estimated
D = result is reported from an additional dilution run

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 Groundwater Samples - Volatile Organic Compounds

Initial Calibration

The initial calibration had relative percent standard deviations that were greater than the control limit of 30 for 1,1,2-trichlorotrifluoroethane (36), 1,1-dichloroethene (37), and carbon disulfide (32). The results for these compounds were non-detect in all groundwater samples and were qualified as estimated (UJ).

Continuing Calibration

The continuing calibration had percent differences between the average and continuing calibration response factors that were greater than the control limit of 25 for dichlorodifluoromethane (-39), chloromethane (-30), vinyl chloride (-36), bromomethane (-28), chloroethane (-29), trichlorofluoromethane (-32), and methyl acetate (-43). The results for these compounds in samples ATGW03502701XX, ATGW03901801XX, ATGW04401901XX, ATGW04601901XX, ATGW04601901DU, and ATGW04801701XX were qualified as estimated (J/UJ).

The continuing calibration had percent differences between the average and continuing calibration response factors that were greater than the control limit of 25 for methyl acetate (-39). The results for methyl acetate in samples ATGW04802701XX, ATGW04702701XX, ATGW04901701XX, and ATGW04701701XX were all non-detect and were qualified as estimated (UJ).

Surrogate Recoveries

Samples ATGW04301701XX, ATGW03901801XX, ATGW04501901XX, and ATGW04401901XX had percent recoveries for two or more surrogates that were less than laboratory control limits indicating a potential low bias. The samples were reanalyzed with similar results. All results associated with these samples were qualified as estimated (J/UJ).

The original runs of samples ATGW04601901XX and ATGW04601901DU had surrogate recoveries that were greater than laboratory control limits, indicating a potential high bias. Positive

results in samples ATGW04601901XX and ATGW04601901DU were qualified as estimated (J). These samples were reanalyzed at a dilution due to concentrations of tetrachloroethene above the calibration range. The surrogate recoveries in the diluted analytical runs of samples ATGW04601901XX and ATGW04601901DU were below laboratory control limits indicating a potential low bias. The tetrachloroethene results reported from samples ATGW04601901XXDL and ATGW04601901DUDL were reported by the laboratory and qualified D. These results were qualified as estimated (J) during the validation review.

Matrix Spike/Matrix Spike Duplicate

The relative percent difference between the matrix spike and matrix spike duplicate was greater than the laboratory control limit of 14 for 1,1-dichloroethene (30). The result for 1,1-dichloroethene in sample ATGW04001701XX was non-detect and was qualified as estimated (UJ).

The relative percent difference between the matrix spike and matrix spike duplicate associated with sample ATGW04701701XX was greater than the laboratory control limit of 22 for 1,1-dichloroethene (30). The result for 1,1-dichloroethene was non-detect in sample ATGW04701701XX and was qualified as estimated (UJ).

Tentatively Identified Compounds

Tentatively identified compounds (TICs) were reported in accordance with the CLP methods if detected. A summary of detected TICs is provided Appendix E. Only samples that reported TICs are included in the table.

3.0 Soil Samples - Volatile Organic Compounds

Initial Calibration

The initial calibration had relative percent standard deviations that were greater than the control limit of 30 for 1,1,2-trichlorotrifluoroethane (36), 1,1-dichloroethene (37), and carbon disulfide (32). The results for these compounds were non-detect in all soil samples and were qualified as estimated (UJ).

Continuing Calibration

A continuing calibration had percent differences between the average and continuing calibration response factors that were greater than the control limit of 25 for methyl acetate (-39). The result for methyl acetate in sample ATGS04700501XX was non-detect and was qualified as estimated (UJ).

A continuing calibration had percent differences between the average and continuing calibration response factors that were greater than the control limit of 25 for bromomethane (28) and methyl acetate (-30). The results for these compounds were non-detect in sample ATGS04801201XX and were qualified as estimated (UJ).

Matrix Spike/Matrix Spike Duplicate

The MS/MSD associated with sample ATGS03801401XX had percent recoveries for 1,1-dichloroethene (21, 21) that were below the control limit of 59-172 indicating a potential low bias. The 1,1-dichloroethene result in sample ATGS03801401XX was non-detect and was qualified as estimated (UJ).

Tentatively Identified Compounds

Tentatively identified compounds (TICs) were reported in accordance with the CLP methods if detected. TICS were reported in samples ATGS03501501XX and ATGS03901S01XX and are summarized in Appendix E.

TABLE 1

SAMPLE SUMMARY TABLE

SDG	Sample Name	Date Collected	Method	Parameter	Type
Y4130	ATGS03101301XX	8/27/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGS03200701XX	8/27/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGS03200701DU	8/27/2007	OLM04.3_VOA	VOC	FD

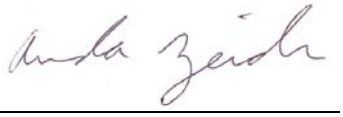
Y4130	ATGS03301601XX	8/27/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGS03401501XX	8/27/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGS03501501XX	8/27/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGS03600401XX	8/27/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGS03700701XX	8/27/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGS03801401XX	8/27/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGS03901S01XX	8/27/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGW03501701XX	8/28/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGW03502701XX	8/28/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGW03901801XX	8/28/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGW03901801DU	8/28/2007	OLM04.3_VOA	VOC	FD
Y4130	ATGW04001701XX	8/28/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGW04101701XX	8/28/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGW04201701XX	8/28/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGW04301701XX	8/28/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGW04401901XX	8/28/2007	OLM04.3_VOA	VOC	FS
Y4130	ATGW04501901XX	8/28/2007	OLM04.3_VOA	VOC	FS
Y4130	TRIPBLANK	8/28/2007	OLM04.3_VOA	VOC	TB
Y4280	ATGW04601901XX	8/29/2007	OLM04.3_VOA	VOC	FS
Y4280	ATGW04601901DU	8/29/2007	OLM04.3_VOA	VOC	FD
Y4280	ATGS04700501XX	8/29/2007	OLM04.3_VOA	VOC	FS
Y4280	ATGW04701701XX	8/29/2007	OLM04.3_VOA	VOC	FS
Y4280	ATGW04702701XX	8/29/2007	OLM04.3_VOA	VOC	FS
Y4280	ATGS04801201XX	8/29/2007	OLM04.3_VOA	VOC	FS
Y4280	ATGW04801701XX	8/29/2007	OLM04.3_VOA	VOC	FS
Y4280	ATGW04802701XX	8/29/2007	OLM04.3_VOA	VOC	FS
Y4280	ATGW04901701XX	8/29/2007	OLM04.3_VOA	VOC	FS
Y4280	TRIPBLANK	8/22/2007	OLM04.3_VOA	VOC	TB

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2000. "Analytical Services Protocols"; June 2000.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

Data Validator: Amanda Zeidler

Signature  Date October 8, 2007

Quality Assurance Officer: Chris Ricardi, NRCC-EAC

Date: October 22, 2007

Appendix E
Table 1.1: Groundwater VOC Results

Lab Sample Id	Y4130-13		Y4130-14		Y4130-15		Y4130-16		Y4130-17		Y4130-19		Y4130-21	
Lab Sample Delivery Group	Y4130		Y4130		Y4130		Y4130		Y4130		Y4130		Y4130	
Loc Name	GW-035		GW-035		GW-039		GW-039		GW-040		GW-041		GW-042	
Field Sample Id	ATGW03501701XX		ATGW03502701XX		ATGW03901801XX		ATGW03901801DU		ATGW04001701XX		ATGW04101701XX		ATGW04201701XX	
Field Sample Date	8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/28/2007	
Qc Code	FS		FS		FS		FD		FS		FS		FS	
Parameter Name	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	78		3.3	J	3.7	J	1.6	J	10	U	9.3	J
1,1,2,2-Tetrachloroethane	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
1,1,2-Trichloroethane	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
1,1-Dichloroethane	4	J	27		10	UJ	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	UJ	6.8	J	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
1,2,4-Trichlorobenzene	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
2-Butanone	50	U	50	U	50	UJ	50	U	50	U	50	U	50	U
2-Hexanone	50	U	50	U	50	UJ	50	U	50	U	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	UJ	50	U	50	U	50	U	50	U
Acetic acid, methyl ester	10	U	10	UJ	10	UJ	10	UJ	10	U	10	U	10	U
Acetone	50	U	50	U	50	UJ	50	U	50	U	50	U	50	U
Benzene	9.5	J	4.4	J	10	UJ	10	U	1.1	J	3.8	J	10	U
Bromodichloromethane	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	UJ	10	UJ	10	UJ	10	U	10	U	10	U
Carbon disulfide	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Carbon tetrachloride	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	UJ	10	UJ	10	UJ	10	U	10	U	10	U
Chloroform	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	UJ	10	UJ	10	UJ	10	U	10	U	10	U
Cis-1,2-Dichloroethene	5.1	J	65		30	J	35		14		6.6	J	26	
cis-1,3-Dichloropropene	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Dichlorodifluoromethane	10	U	10	UJ	10	UJ	10	UJ	10	U	10	U	10	U
Ethyl benzene	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Isopropylbenzene	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Methyl cyclohexane	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	10	U	6.5	J	10	UJ	10	U	10	U	10	U	3.3	J
Methylene chloride	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
o-Xylene	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U

Appendix E
Table 1.1: Groundwater VOC Results

	Lab Sample Id	Y4130-13		Y4130-14		Y4130-15		Y4130-16		Y4130-17		Y4130-19		Y4130-21	
	Lab Sample Delivery Group	Y4130		Y4130		Y4130		Y4130		Y4130		Y4130		Y4130	
	Loc Name	GW-035		GW-035		GW-039		GW-039		GW-040		GW-041		GW-042	
	Field Sample Id	ATGW03501701XX		ATGW03502701XX		ATGW03901801XX		ATGW03901801DU		ATGW04001701XX		ATGW04101701XX		ATGW04201701XX	
	Field Sample Date	8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/28/2007	
	Qc Code	FS		FS		FS		FD		FS		FS		FS	
Parameter Name		**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Styrene		10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Tetrachloroethene		10	U	10	U	10	UJ	10	U	10	U	10	U	19	
Toluene		10	U	1.3	J	10	UJ	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene		10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene		10	U	10	U	10	UJ	10	U	10	U	10	U	10	U
Trichloroethene		10	U	15		10	UJ	10	U	1.6	J	10	U	30	
Trichlorofluoromethane		10	U	10	UJ	10	UJ	10	UJ	10	U	10	U	10	U
Vinyl chloride		5.2	J	3.3	J	5.9	J	11	J	1.7	J	10	U	10	U
Xylene, m/p		20	U	20	U	20	UJ	20	U	20	U	20	U	20	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.3
QC Code:
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Value
D = Analyte was reported from a dilited analytical run.

Appendix E
Table 1.1: Groundwater VOC Results

Lab Sample Id	Y4130-22		Y4130-23		Y4130-24		Y4130-25		Y4280-01		Y4280-02	
Lab Sample Delivery Group	Y4130		Y4130		Y4130		Y4130		Y4280		Y4280	
Loc Name	GW-043		GW-044		GW-045		QC		GW-046		GW-046	
Field Sample Id	ATGW04301701XX		ATGW04401901XX		ATGW04501901XX		TRIPBLANK		ATGW04601901XX		ATGW04601901DU	
Field Sample Date	8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/29/2007		8/29/2007	
Qc Code	FS		FS		FS		TB		FS		FD	
Parameter Name	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	UJ	50	UJ	10	UJ	10	U	10	UJ	10	UJ
1,1,2-Trichloroethane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,1-Dichloroethane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,1-Dichloroethene	10	UJ	50	UJ	10	UJ	10	U	10	UJ	10	UJ
1,2,4-Trichlorobenzene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,2-Dibromoethane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,2-Dichlorobenzene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,2-Dichloroethane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,2-Dichloropropane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,3-Dichlorobenzene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
1,4-Dichlorobenzene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
2-Butanone	50	UJ	250	UJ	50	UJ	50	U	50	U	50	U
2-Hexanone	50	UJ	250	UJ	50	UJ	50	U	50	U	50	U
4-Methyl-2-pentanone	50	UJ	250	UJ	50	UJ	50	U	50	U	50	U
Acetic acid, methyl ester	10	UJ	50	UJ	10	UJ	10	U	10	UJ	10	UJ
Acetone	50	UJ	250	UJ	50	UJ	50	U	50	U	50	U
Benzene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Bromodichloromethane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Bromoform	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Bromomethane	10	UJ	50	UJ	10	UJ	10	U	10	UJ	10	UJ
Carbon disulfide	10	UJ	50	UJ	10	UJ	10	U	10	UJ	10	UJ
Carbon tetrachloride	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Chlorobenzene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Chlorodibromomethane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Chloroethane	10	UJ	50	UJ	10	UJ	10	U	10	UJ	10	UJ
Chloroform	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Chloromethane	10	UJ	50	UJ	10	UJ	10	U	10	UJ	10	UJ
Cis-1,2-Dichloroethene	11	J	50	UJ	91	D	10	U	81	J	88	J
cis-1,3-Dichloropropene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Cyclohexane	10	UJ	50	UJ	10	UJ	10	U	5.5	J	5.1	J
Dichlorodifluoromethane	10	UJ	50	UJ	10	UJ	10	U	10	UJ	10	UJ
Ethyl benzene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Isopropylbenzene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Methyl cyclohexane	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Methyl Tertbutyl Ether	10	UJ	50	UJ	10	UJ	10	U	5.5	J	5.7	J
Methylene chloride	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
o-Xylene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U

Appendix E
Table 1.1: Groundwater VOC Results

Lab Sample Id	Y4130-22		Y4130-23		Y4130-24		Y4130-25		Y4280-01		Y4280-02	
Lab Sample Delivery Group	Y4130		Y4130		Y4130		Y4130		Y4280		Y4280	
Loc Name	GW-043		GW-044		GW-045		QC		GW-046		GW-046	
Field Sample Id	ATGW04301701XX		ATGW04401901XX		ATGW04501901XX		TRIPBLANK		ATGW04601901XX		ATGW04601901DU	
Field Sample Date	8/28/2007		8/28/2007		8/28/2007		8/28/2007		8/29/2007		8/29/2007	
Qc Code	FS		FS		FS		TB		FS		FD	
Parameter Name	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Styrene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Tetrachloroethene	850	DJ	50	UJ	900	D	10	U	470	DJ	490	DJ
Toluene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
trans-1,2-Dichloroethene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
trans-1,3-Dichloropropene	10	UJ	50	UJ	10	UJ	10	U	10	U	10	U
Trichloroethene	76	J	50	UJ	100	D	10	U	82	J	86	J
Trichlorofluoromethane	10	UJ	50	UJ	10	UJ	10	U	10	UJ	10	UJ
Vinyl chloride	10	UJ	50	UJ	10	UJ	10	U	3.8	J	4.1	J
Xylene, m/p	20	UJ	100	UJ	20	UJ	20	U	20	U	20	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.3
QC Code:
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Value
D = Analyte was reported from a dilited analytical run.

Appendix E
Table 1.1: Groundwater VOC Results

Lab Sample Id	Y4280-04		Y4280-06		Y4280-08		Y4280-10		Y4280-11		Y4280-13	
Lab Sample Delivery Group	Y4280		Y4280		Y4280		Y4280		Y4280		Y4280	
Loc Name	GW-047		GW-047		GW-048		GW-048		GW-049		QC	
Field Sample Id	ATGW04701701XX		ATGW04702701XX		ATGW04801701XX		ATGW04802701XX		ATGW04901701XX		TRIPBLANK	
Field Sample Date	8/29/2007		8/29/2007		8/29/2007		8/29/2007		8/29/2007		8/22/2007	
Qc Code	FS		FS		FS		FS		FS		TB	
Parameter Name	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	10	U	10	U	10	U	50	U	2	J	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	50	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	UJ	10	UJ	10	UJ	50	UJ	10	UJ	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	50	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	50	U	10	U	10	U
1,1-Dichloroethene	10	UJ	10	UJ	10	UJ	50	UJ	10	UJ	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	50	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	50	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	50	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	50	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	50	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	50	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	50	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	50	U	10	U	10	U
2-Butanone	50	U	50	U	50	U	250	U	50	U	50	U
2-Hexanone	50	U	50	U	50	U	250	U	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	U	250	U	50	U	50	U
Acetic acid, methyl ester	10	UJ	10	UJ	10	UJ	50	UJ	10	UJ	10	U
Acetone	50	U	50	U	50	U	250	U	50	U	50	U
Benzene	10	U	10	U	10	U	50	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	50	U	10	U	10	U
Bromoform	10	U	10	U	10	U	50	U	10	U	10	U
Bromomethane	10	U	10	U	10	UJ	50	U	10	U	10	U
Carbon disulfide	10	UJ	10	UJ	10	UJ	50	UJ	10	UJ	10	U
Carbon tetrachloride	10	U	10	U	10	U	50	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	50	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	50	U	10	U	10	U
Chloroethane	10	U	10	U	10	UJ	50	U	10	U	10	U
Chloroform	10	U	10	U	10	U	50	U	10	U	10	U
Chloromethane	10	U	10	U	10	UJ	50	U	10	U	10	U
Cis-1,2-Dichloroethene	3.7	J	3.8	J	43		45	J	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	50	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	50	U	10	U	10	U
Dichlorodifluoromethane	10	U	10	U	10	UJ	50	U	10	U	10	U
Ethyl benzene	10	U	10	U	10	U	50	U	10	U	10	U
Isopropylbenzene	10	U	10	U	10	U	50	U	10	U	10	U
Methyl cyclohexane	10	U	10	U	10	U	50	U	10	U	10	U
Methyl Tertbutyl Ether	2.8	J	3.7	J	10	U	50	U	10	U	10	U
Methylene chloride	3.5	J	12		10	U	54		1.6	J	10	U
o-Xylene	10	U	10	U	10	U	50	U	10	U	10	U

Appendix E
Table 1.1: Groundwater VOC Results

Lab Sample Id	Y4280-04		Y4280-06		Y4280-08		Y4280-10		Y4280-11		Y4280-13	
Lab Sample Delivery Group	Y4280		Y4280		Y4280		Y4280		Y4280		Y4280	
Loc Name	GW-047		GW-047		GW-048		GW-048		GW-049		QC	
Field Sample Id	ATGW04701701XX		ATGW04702701XX		ATGW04801701XX		ATGW04802701XX		ATGW04901701XX		TRIPBLANK	
Field Sample Date	8/29/2007		8/29/2007		8/29/2007		8/29/2007		8/29/2007		8/22/2007	
Qc Code	FS		FS		FS		FS		FS		TB	
Parameter Name	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Styrene	10	U	10	U	10	U	50	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	50	U	10	U	10	U
Toluene	10	U	10	U	10	U	50	U	10	U	10	U
trans-1,2-Dichloroethene	10	U	10	U	3.1	J	50	U	10	U	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	50	U	10	U	10	U
Trichloroethene	10	U	10	U	10	U	50	U	3.2	J	10	U
Trichlorofluoromethane	10	U	10	U	10	UJ	50	U	10	U	10	U
Vinyl chloride	10	U	3.2	J	10	UJ	50	U	10	U	10	U
Xylene, m/p	20	U	20	U	20	U	100	U	20	U	20	U

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.3
QC Code:
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Value
D = Analyte was reported from a dilited analytical run.

Appendix E
Table 1.2: Soil VOC Results

Lab Sample Id	Y4130-01		Y4130-02		Y4130-03		Y4130-04		Y4130-05		Y4130-06	
Lab Sample Delivery Group	Y4130		Y4130		Y4130		Y4130		Y4130		Y4130	
Loc Name	GS-031		GS-032		GS-032		GS-033		GS-034		GS-035	
Field Sample Id	ATGS03101301XX		ATGS03200701XX		ATGS03200701DU		ATGS03301601XX		ATGS03401501XX		ATGS03501501XX	
Field Sample Date	8/27/2007		8/27/2007		8/27/2007		8/27/2007		8/27/2007		8/27/2007	
Qc Code	FS		FS		FD		FS		FS		FS	
Parameter Name	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,1,2,2-Tetrachloroethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	1,500	UJ	760	UJ	570	UJ	1,200	UJ	480	UJ	570	UJ
1,1,2-Trichloroethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,1-Dichloroethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,1-Dichloroethene	1,500	UJ	760	UJ	570	UJ	1,200	UJ	480	UJ	570	UJ
1,2,4-Trichlorobenzene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,2-Dibromo-3-chloropropane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,2-Dibromoethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,2-Dichlorobenzene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,2-Dichloroethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,2-Dichloropropane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,3-Dichlorobenzene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
1,4-Dichlorobenzene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
2-Butanone	7,300	U	3,800	U	2,800	U	6,000	U	2,400	U	2,800	U
2-Hexanone	7,300	U	3,800	U	2,800	U	6,000	U	2,400	U	2,800	U
4-Methyl-2-pentanone	7,300	U	3,800	U	2,800	U	6,000	U	2,400	U	2,800	U
Acetic acid, methyl ester	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Acetone	7,300	U	3,800	U	2,800	U	6,000	U	2,400	U	2,800	U
Benzene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Bromodichloromethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Bromoform	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Bromomethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Carbon disulfide	1,500	UJ	760	UJ	570	UJ	1,200	UJ	480	UJ	570	UJ
Carbon tetrachloride	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Chlorobenzene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Chlorodibromomethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Chloroethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Chloroform	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Chloromethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Cis-1,2-Dichloroethene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
cis-1,3-Dichloropropene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Cyclohexane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Dichlorodifluoromethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Ethyl benzene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Isopropylbenzene	1,500	U	760	U	570	U	1,200	U	480	U	570	U

Appendix E
Table 1.2: Soil VOC Results

Lab Sample Id	Y4130-01		Y4130-02		Y4130-03		Y4130-04		Y4130-05		Y4130-06	
Lab Sample Delivery Group	Y4130		Y4130		Y4130		Y4130		Y4130		Y4130	
Loc Name	GS-031		GS-032		GS-032		GS-033		GS-034		GS-035	
Field Sample Id	ATGS03101301XX		ATGS03200701XX		ATGS03200701DU		ATGS03301601XX		ATGS03401501XX		ATGS03501501XX	
Field Sample Date	8/27/2007		8/27/2007		8/27/2007		8/27/2007		8/27/2007		8/27/2007	
Qc Code	FS		FS		FD		FS		FS		FS	
Parameter Name	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Methyl cyclohexane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Methyl Tertbutyl Ether	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Methylene chloride	1,500	U	760	U	570	U	1,200	U	480	U	570	U
o-Xylene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Styrene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Tetrachloroethene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Toluene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
trans-1,2-Dichloroethene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
trans-1,3-Dichloropropene	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Trichloroethene	1,500	U	760	U	570	U	1,200	U	120	J	540	J
Trichlorofluoromethane	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Vinyl chloride	1,500	U	760	U	570	U	1,200	U	480	U	570	U
Xylene, m/p	1,500	U	760	U	570	U	1,200	U	480	U	570	U

Notes:
Results in micrograms per kilogram (µg/kg)
Samples analyzed for VOCs by EPA Method OLM04.3
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Value

Appendix E
Table 1.2: Soil VOC Results

Lab Sample Id	Y4130-07		Y4130-08		Y4130-09		Y4130-11		Y4280-03		Y4280-07	
Lab Sample Delivery Group	Y4130		Y4130		Y4130		Y4130		Y4280		Y4280	
Loc Name	GS-036		GS-037		GS-038		GS-039		GS-047		GS-048	
Field Sample Id	ATGS03600401XX		ATGS03700701XX		ATGS03801401XX		ATGS03901S01XX		ATGS04700501XX		ATGS04801201XX	
Field Sample Date	8/27/2007		8/27/2007		8/27/2007		8/27/2007		8/29/2007		8/29/2007	
Qc Code	FS		FS		FS		FS		FS		FS	
Parameter Name	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
1,1,1-Trichloroethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,1,2,2-Tetrachloroethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	1,000	UJ	2,000	UJ	630	UJ	830	UJ	660	UJ	740	UJ
1,1,2-Trichloroethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,1-Dichloroethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,1-Dichloroethene	1,000	UJ	2,000	UJ	630	UJ	830	UJ	660	UJ	740	UJ
1,2,4-Trichlorobenzene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,2-Dibromo-3-chloropropane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,2-Dibromoethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,2-Dichlorobenzene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,2-Dichloroethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,2-Dichloropropane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,3-Dichlorobenzene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
1,4-Dichlorobenzene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
2-Butanone	5,000	U	10,000	U	3,100	U	4,200	U	3300	U	3700	U
2-Hexanone	5,000	U	10,000	U	3,100	U	4,200	U	3300	U	3700	U
4-Methyl-2-pentanone	5,000	U	10,000	U	3,100	U	4,200	U	3300	U	3700	U
Acetic acid, methyl ester	1,000	U	2,000	U	630	U	830	U	660	UJ	740	UJ
Acetone	5,000	U	10,000	U	3,100	U	4,200	U	3300	U	3700	U
Benzene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Bromodichloromethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Bromoform	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Bromomethane	1,000	U	2,000	U	630	U	830	U	660	U	740	UJ
Carbon disulfide	1,000	UJ	2,000	UJ	630	UJ	830	UJ	660	UJ	740	UJ
Carbon tetrachloride	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Chlorobenzene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Chlorodibromomethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Chloroethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Chloroform	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Chloromethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Cis-1,2-Dichloroethene	400	J	500	J	630	U	830	U	660	U	740	U
cis-1,3-Dichloropropene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Cyclohexane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Dichlorodifluoromethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Ethyl benzene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Isopropylbenzene	1,000	U	2,000	U	630	U	830	U	660	U	740	U

Appendix E
Table 1.2: Soil VOC Results

Lab Sample Id	Y4130-07		Y4130-08		Y4130-09		Y4130-11		Y4280-03		Y4280-07	
Lab Sample Delivery Group	Y4130		Y4130		Y4130		Y4130		Y4280		Y4280	
Loc Name	GS-036		GS-037		GS-038		GS-039		GS-047		GS-048	
Field Sample Id	ATGS03600401XX		ATGS03700701XX		ATGS03801401XX		ATGS03901S01XX		ATGS04700501XX		ATGS04801201XX	
Field Sample Date	8/27/2007		8/27/2007		8/27/2007		8/27/2007		8/29/2007		8/29/2007	
Qc Code	FS		FS		FS		FS		FS		FS	
Parameter Name	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Methyl cyclohexane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Methyl Tertbutyl Ether	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Methylene chloride	1,000	U	2,000	U	630	U	830	U	180	J	740	U
o-Xylene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Styrene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Tetrachloroethene	1,200		2,000	U	630	U	830	U	660	U	740	U
Toluene	170	J	2,100		630	U	830	U	660	U	740	U
trans-1,2-Dichloroethene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
trans-1,3-Dichloropropene	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Trichloroethene	2,500		11,000		630	U	830	U	660	U	740	U
Trichlorofluoromethane	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Vinyl chloride	1,000	U	2,000	U	630	U	830	U	660	U	740	U
Xylene, m/p	1,000	U	2,000	U	630	U	830	U	660	U	740	U

Notes:
Results in micrograms per kilogram (µg/kg)
Samples analyzed for VOCs by EPA Method OLM04.3
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifiers:
U = Not detected at a concentration greater than the RL
J = Estimated Value

Appendix E
Table 1.3: TIC Results

Sample Name	Lab ID	Type	SDG	Method	Chemical Name	Result	Qualifier	Units
ATGS03501501XX	Y4130-06	FS	Y4130	OLM04.3_VOA	Decane, 2,2,8-trimethyl-	1200	NJ	ug/Kg
ATGS03501501XX	Y4130-06	FS	Y4130	OLM04.3_VOA	Eicosane	890	NJ	ug/Kg
ATGS03501501XX	Y4130-06	FS	Y4130	OLM04.3_VOA	Decane, 2,2,6-trimethyl-	2100	NJ	ug/Kg
ATGS03501501XX	Y4130-06	FS	Y4130	OLM04.3_VOA	Heptane, 2,2,4,6,6-pentamethyl-	810	NJ	ug/Kg
ATGS03501501XX	Y4130-06	FS	Y4130	OLM04.3_VOA	Undecane, 5-ethyl-	1900	NJ	ug/Kg
ATGS03501501XX	Y4130-06	FS	Y4130	OLM04.3_VOA	Hexane, 2,2,4-trimethyl-	2000	NJ	ug/Kg
ATGS03501501XX	Y4130-06	FS	Y4130	OLM04.3_VOA	Hexane, 2,2,5-trimethyl-	2400	NJ	ug/Kg
ATGS03501501XX	Y4130-06	FS	Y4130	OLM04.3_VOA	Nonane, 3,7-dimethyl-	1900	NJ	ug/Kg
ATGS03501501XX	Y4130-06	FS	Y4130	OLM04.3_VOA	Unknown14.83	1200	J	ug/Kg
ATGS03501501XX	Y4130-06	FS	Y4130	OLM04.3_VOA	Dodecane, 2,7,10-trimethyl-	1400	NJ	ug/Kg
ATGS03901S01XX	Y4130-11	FS	Y4130	OLM04.3_VOA	Hexane, 2,2,3-trimethyl-	41000	NJ	ug/Kg
ATGS03901S01XX	Y4130-11	FS	Y4130	OLM04.3_VOA	Heptane, 2,2,4,6,6-pentamethyl-	20000	NJ	ug/Kg
ATGS03901S01XX	Y4130-11	FS	Y4130	OLM04.3_VOA	Decane, 2-methyl-	32000	NJ	ug/Kg
ATGS03901S01XX	Y4130-11	FS	Y4130	OLM04.3_VOA	Heptane, 2,2-dimethyl-	43000	NJ	ug/Kg
ATGS03901S01XX	Y4130-11	FS	Y4130	OLM04.3_VOA	Dodecane, 2,2,11,11-tetramethyl-	21000	NJ	ug/Kg
ATGS03901S01XX	Y4130-11	FS	Y4130	OLM04.3_VOA	Octane, 4-methyl-	67000	NJ	ug/Kg
ATGS03901S01XX	Y4130-11	FS	Y4130	OLM04.3_VOA	Dodecane, 3-methyl-	19000	NJ	ug/Kg
ATGS03901S01XX	Y4130-11	FS	Y4130	OLM04.3_VOA	Pentane, 3-ethyl-2,2-dimethyl-	44000	NJ	ug/Kg
ATGS03901S01XX	Y4130-11	FS	Y4130	OLM04.3_VOA	Decane, 3,8-dimethyl-	39000	NJ	ug/Kg
ATGS03901S01XX	Y4130-11	FS	Y4130	OLM04.3_VOA	1-Iodo-2-methylnonane	39000	NJ	ug/Kg
ATGW03901801XX	Y4130-15	FS	Y4130	OLM04.3_VOA	Boronic acid, phenyl-	5.4	NJ	ug/L
ATGW03901801DU	Y4130-16	FD	Y4130	OLM04.3_VOA	2,4-Hexadiyne	5.9	NJ	ug/L
ATGW04001701XX	Y4130-17	FS	Y4130	OLM04.3_VOA	Ethylene oxide	91	NJ	ug/L
ATGW04001701XX	Y4130-17	FS	Y4130	OLM04.3_VOA	Undecane, 5-ethyl-	5.8	NJ	ug/L
ATGW04601901XX	Y4280-01	FS	Y4280	OLM04.3_VOA	Butane, 2-methyl-	97	NJ	ug/L
ATGW04601901XX	Y4280-01	FS	Y4280	OLM04.3_VOA	Cyclopentane	27	NJ	ug/L
ATGW04601901XX	Y4280-01DL	FS	Y4280	OLM04.3_VOA	Butane, 2-methyl-	110	NJD	ug/L
ATGW04601901DU	Y4280-02	FD	Y4280	OLM04.3_VOA	Butane, 2-methyl-	89	NJ	ug/L
ATGW04601901DU	Y4280-02	FD	Y4280	OLM04.3_VOA	Cyclopentane	27	NJ	ug/L
ATGW04601901DU	Y4280-02DL	FD	Y4280	OLM04.3_VOA	Butane, 2-methyl-	120	NJD	ug/L
ATGW04901701XX	Y4280-11	FS	Y4280	OLM04.3_VOA	Benzeneethanamine, N-[(pentafluoro	5.3	NJ	ug/L
ATGW04901701XX	Y4280-11	FS	Y4280	OLM04.3_VOA	Naphthalene, 1,2,3,4-tetrahydro-2,	5.2	NJ	ug/L

Notes:
J = estimated concentration
N = uncertain identification
D = Result was reported from a diluted analytical run

APPENDIX F

CALCULATIONS

Derivation of the soil gas concentration at the source area.

$$C_{sg} = \frac{H * C_{soil} * \rho_b}{\theta_w + (K_d * \rho_b) + H\theta_a} * (1000)$$

Inputs:

Contaminant = TCE

H = 0.403

K_{oc} = 126

C_{soil} = PCE = 32 mg/Kg

$$C_{sg} = \frac{0.403 * 32 * 1.5}{0.15 + (0.756 * 1.5) + 0.403*0.28} * (1000)$$

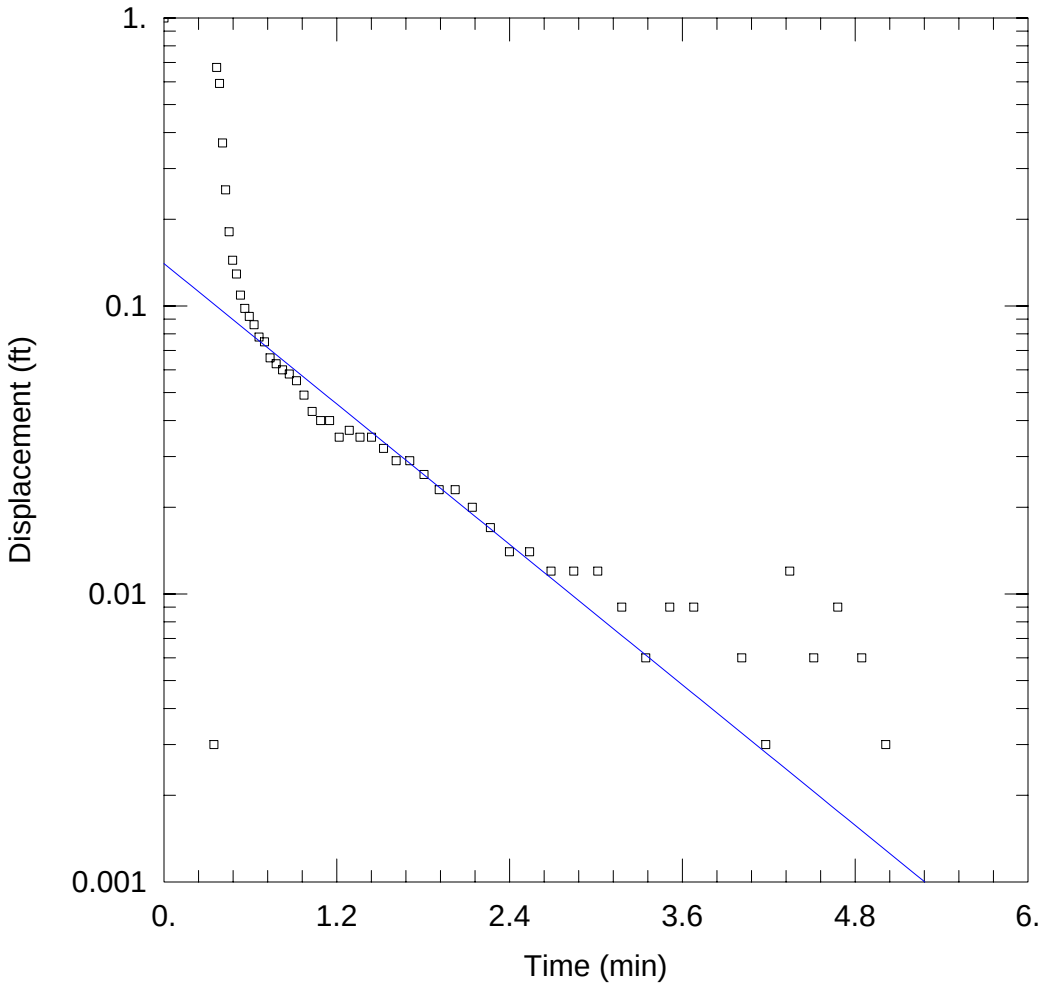
C_{sg} = 9,834 µg/L

Converted to µg/M^3 =

C_{sg} = 9,834,000 µg/M^3

Parameter = Definition (units)

C_{sg} = soil gas concentration (µg/L)
ρ_b = dry soil bulk density (kg/L) = assume 1.5
K_d = soil-water partition coefficient (L/kg) = K_{oc} x f_{oc}
K_{oc} = organic carbon partition coefficient (L/kg)
F_{oc} = fraction organic carbon in soil (g/g) = 0.006 (0.6%)
θ_w = water-filled soil porosity (L_{water} /L_{soil}) = 0.15
H = dimensionless Henry's law constant
θ_a = air-filled soil porosity (L_{air} /L_{soil}) = n - θ_w
n = total soil porosity (L_{pore} /L_{soil}) = 1 - (ρ_b/ρ_s)
ρ_s = soil particle density (kg/L) = 2.65
[a] Assume a pH of 6.8 when selecting default K_d values



MW-3-RISING 1

Data Set: P:\...\MW_3.aqt
Date: 11/19/07 Time: 12:51:58

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: MW-3-1
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

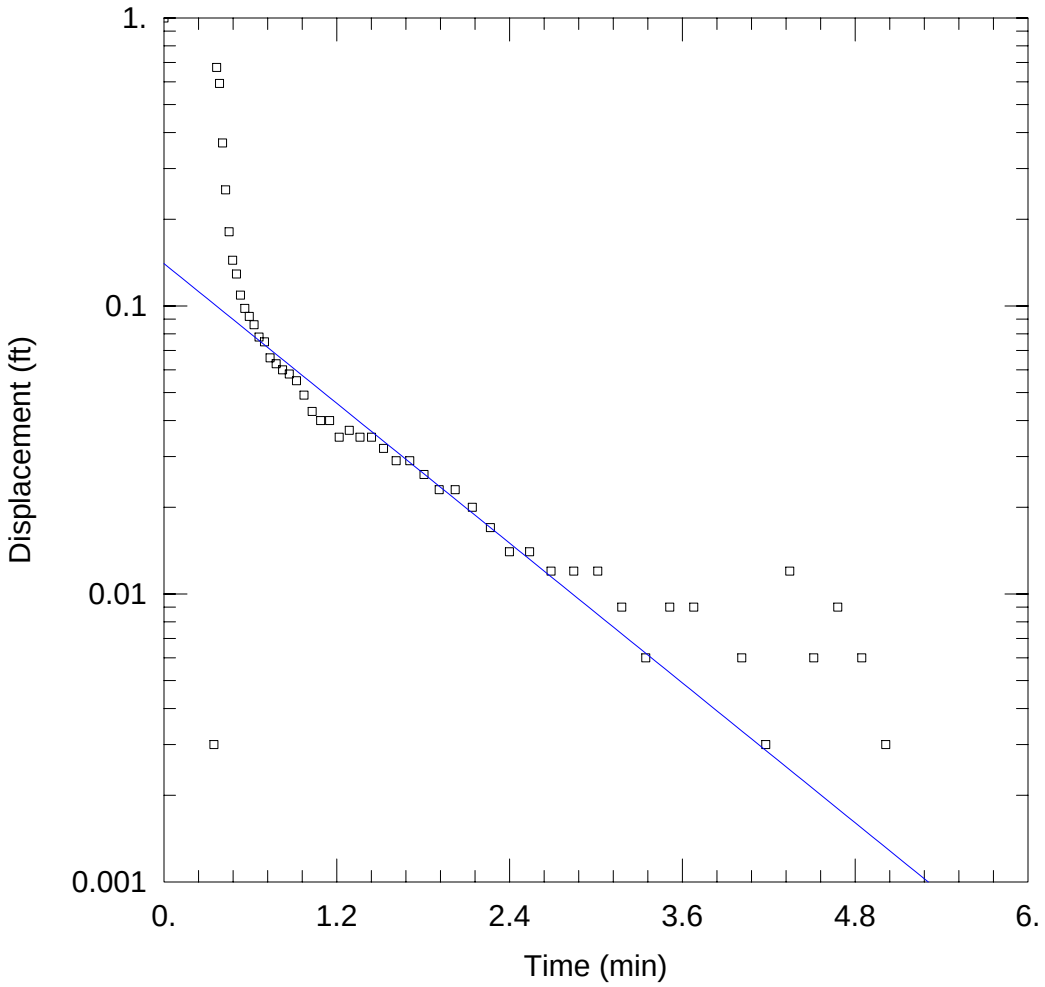
WELL DATA (MW-3)

Initial Displacement: 1. ft
Total Well Penetration Depth: 3.77 ft
Casing Radius: 0.083 ft
Static Water Column Height: 3.77 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001349 ft/min y0 = 0.1403 ft



MW-3-RISING 1

Data Set: P:\...\MW_3.aqt
Date: 11/19/07 Time: 12:49:26

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: MW-3-1
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

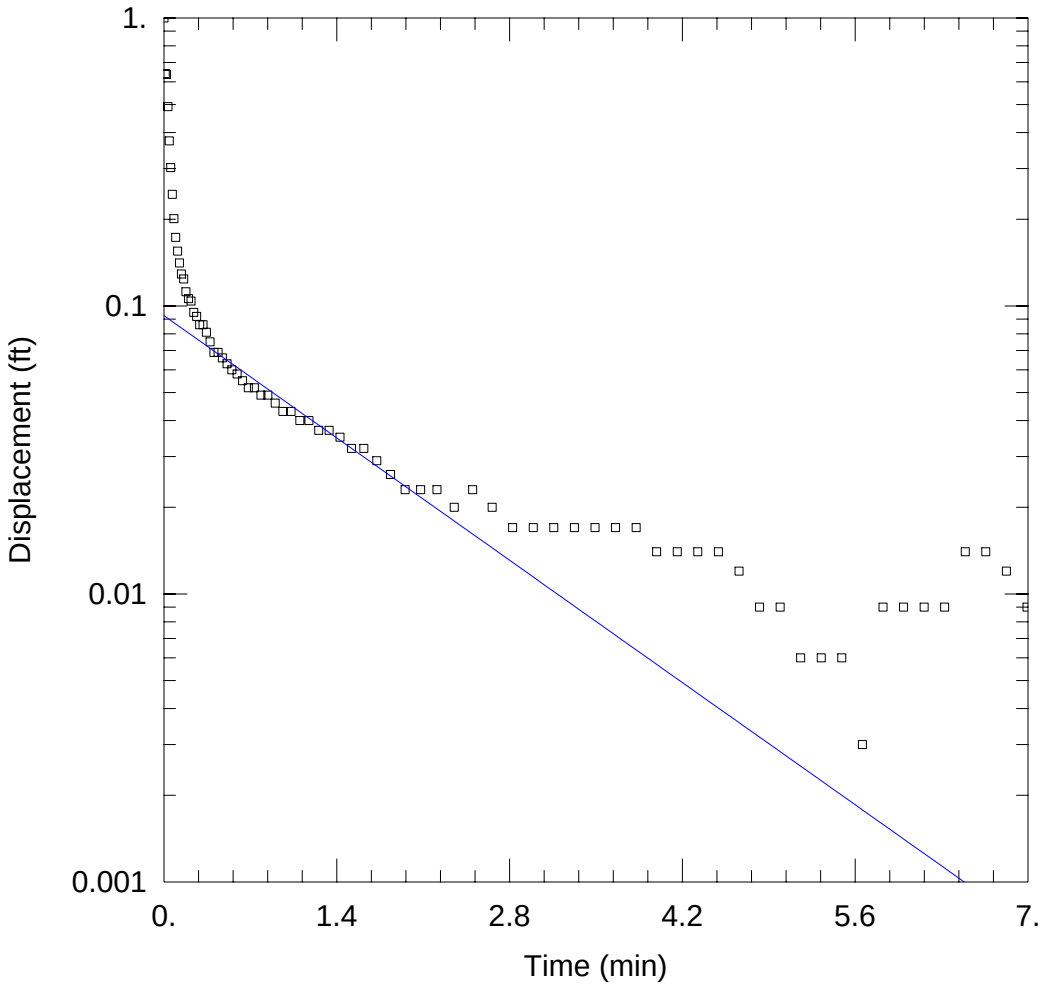
WELL DATA (MW-3)

Initial Displacement: 1. ft
Total Well Penetration Depth: 3.77 ft
Casing Radius: 0.083 ft
Static Water Column Height: 3.77 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.002498 ft/min y0 = 0.1403 ft



MW-3-RISING 2

Data Set: P:\...\MW_3.aqt
Date: 11/19/07 Time: 12:55:03

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: MW-3-2
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

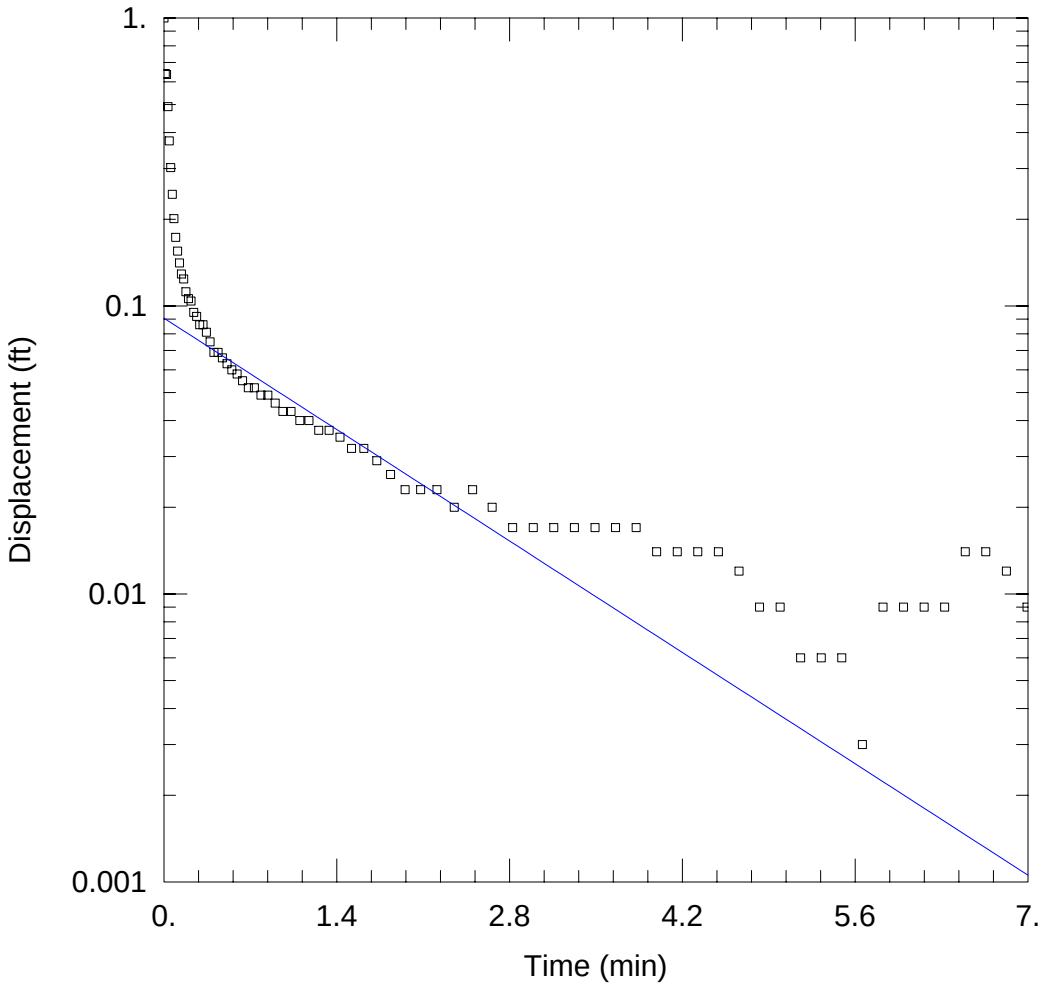
WELL DATA (MW-3)

Initial Displacement: 1. ft
Total Well Penetration Depth: 3.77 ft
Casing Radius: 0.083 ft
Static Water Column Height: 3.77 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001007 ft/min y0 = 0.09251 ft



MW-3-RISING 2

Data Set: P:\...\MW_3.aqt
Date: 11/19/07 Time: 12:56:07

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: MW-3-2
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

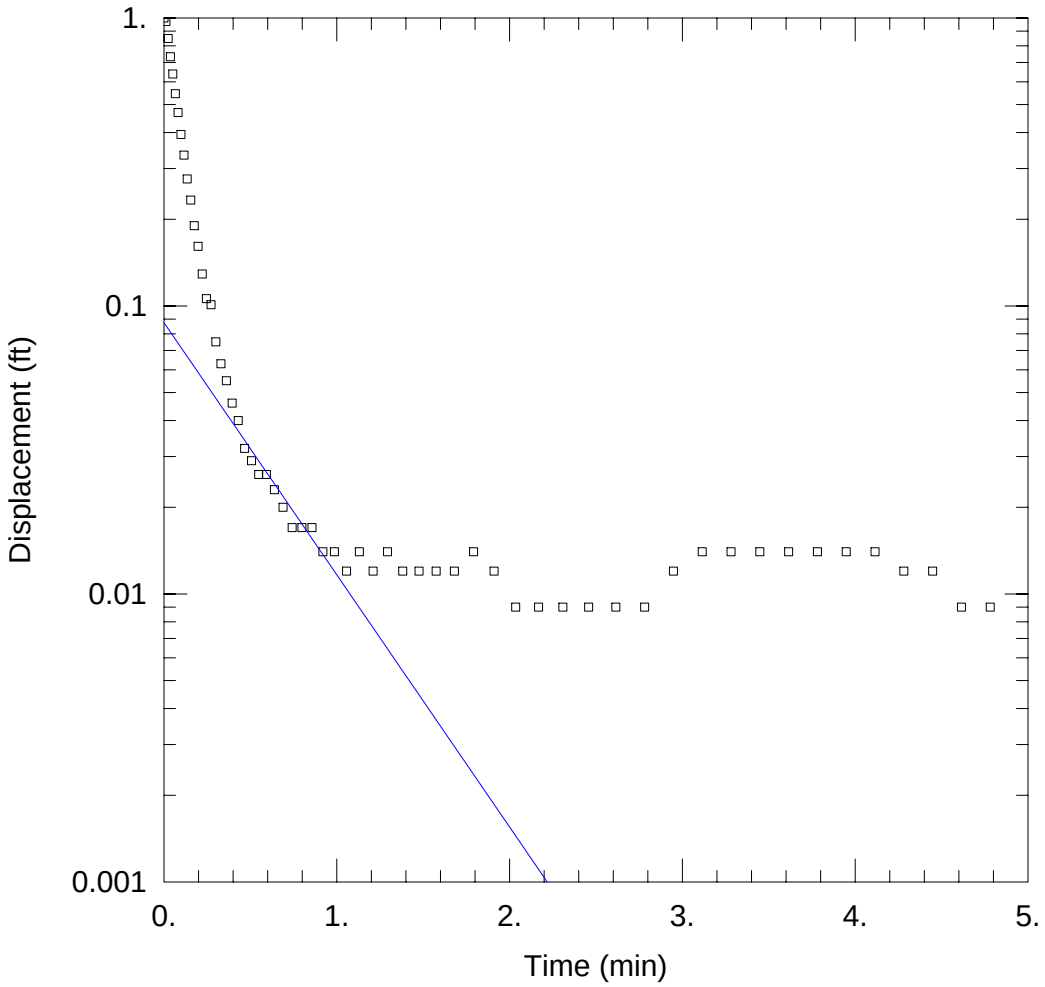
WELL DATA (MW-3)

Initial Displacement: 1. ft
Total Well Penetration Depth: 3.77 ft
Casing Radius: 0.083 ft
Static Water Column Height: 3.77 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.001707 ft/min y0 = 0.09069 ft



MW-9-RISING 1

Data Set: P:\...\MW_9.aqt
Date: 11/19/07 Time: 13:01:53

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: MW-9-1
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

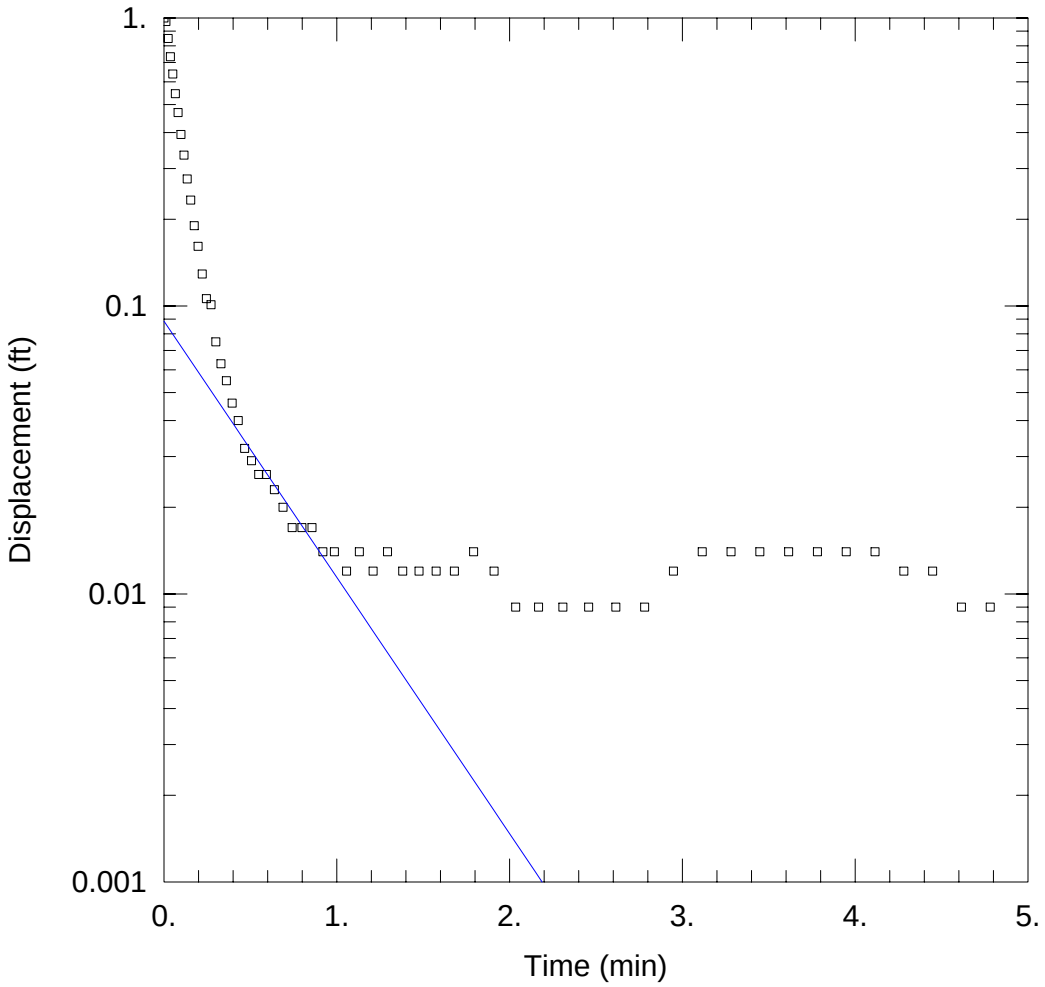
WELL DATA (MW-9)

Initial Displacement: 1. ft
Total Well Penetration Depth: 4.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 4.73 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.003071 ft/min y0 = 0.08749 ft



MW-9-RISING 1

Data Set: P:\...\MW_9.aqt
Date: 11/19/07 Time: 13:01:08

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: MW-9-1
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

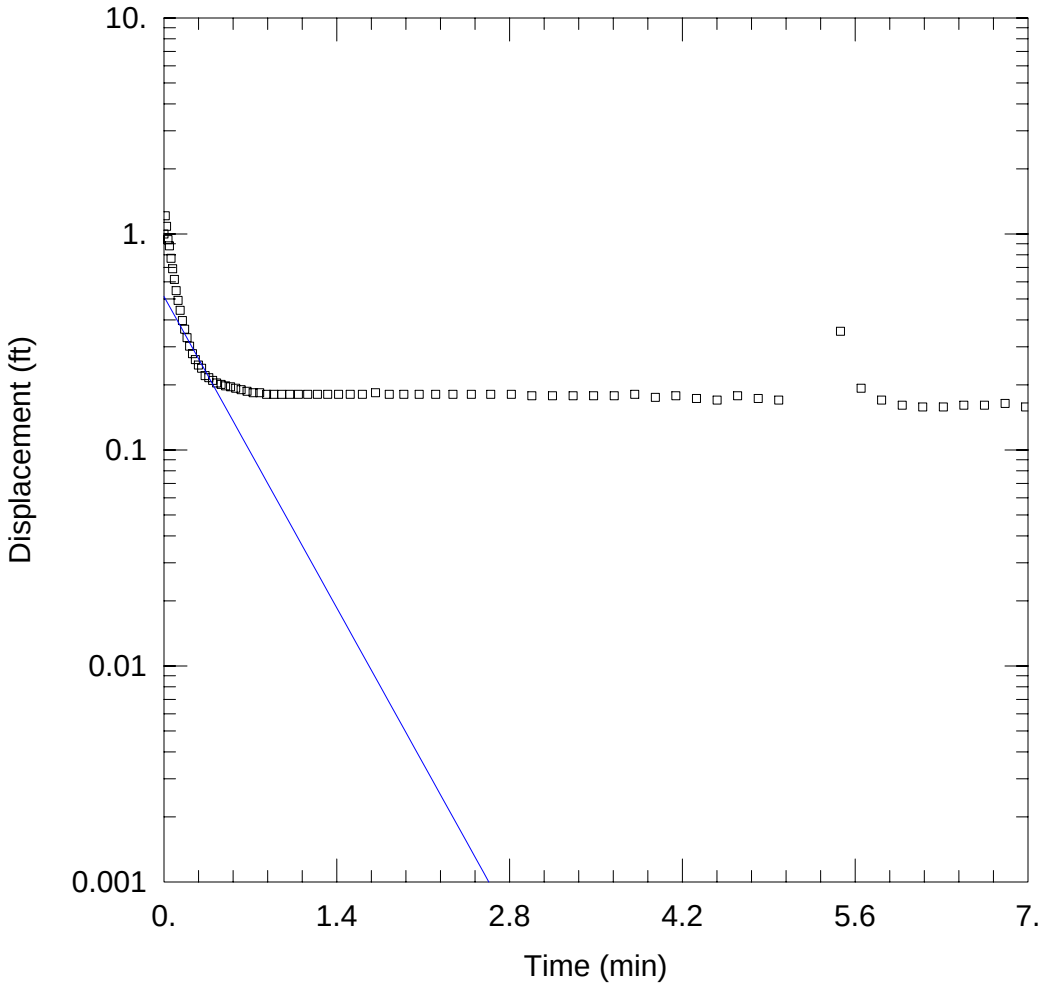
WELL DATA (MW-9)

Initial Displacement: 1. ft
Total Well Penetration Depth: 4.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 4.73 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.005495 ft/min y0 = 0.08851 ft



MW-9-RISING 2

Data Set: P:\...\MW_9.aqt
Date: 11/19/07 Time: 13:06:41

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: MW-9-2
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

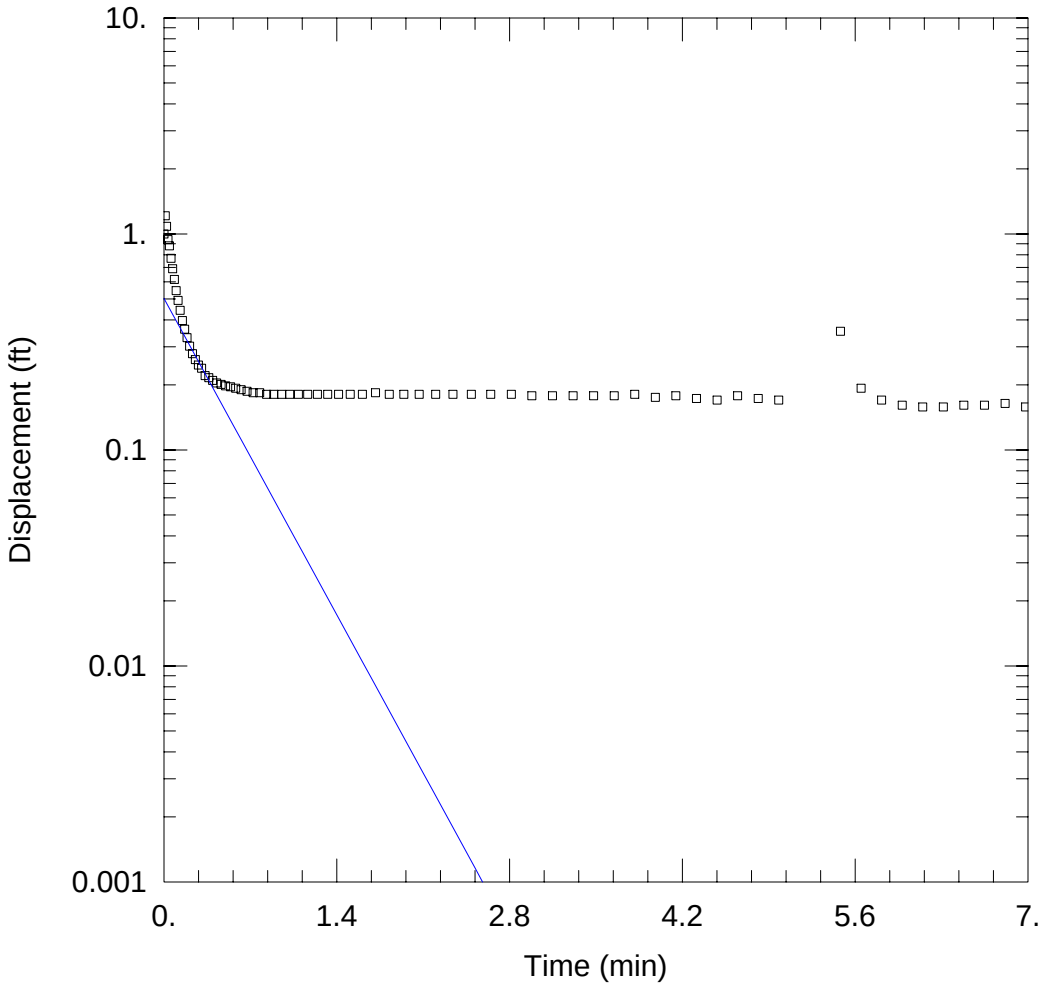
WELL DATA (MW-9)

Initial Displacement: 1. ft
Total Well Penetration Depth: 4.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 4.73 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.003611 ft/min y0 = 0.513 ft



MW-9-RISING 2

Data Set: P:\...\MW_9.aqt
Date: 11/19/07 Time: 13:09:15

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: MW-9-2
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

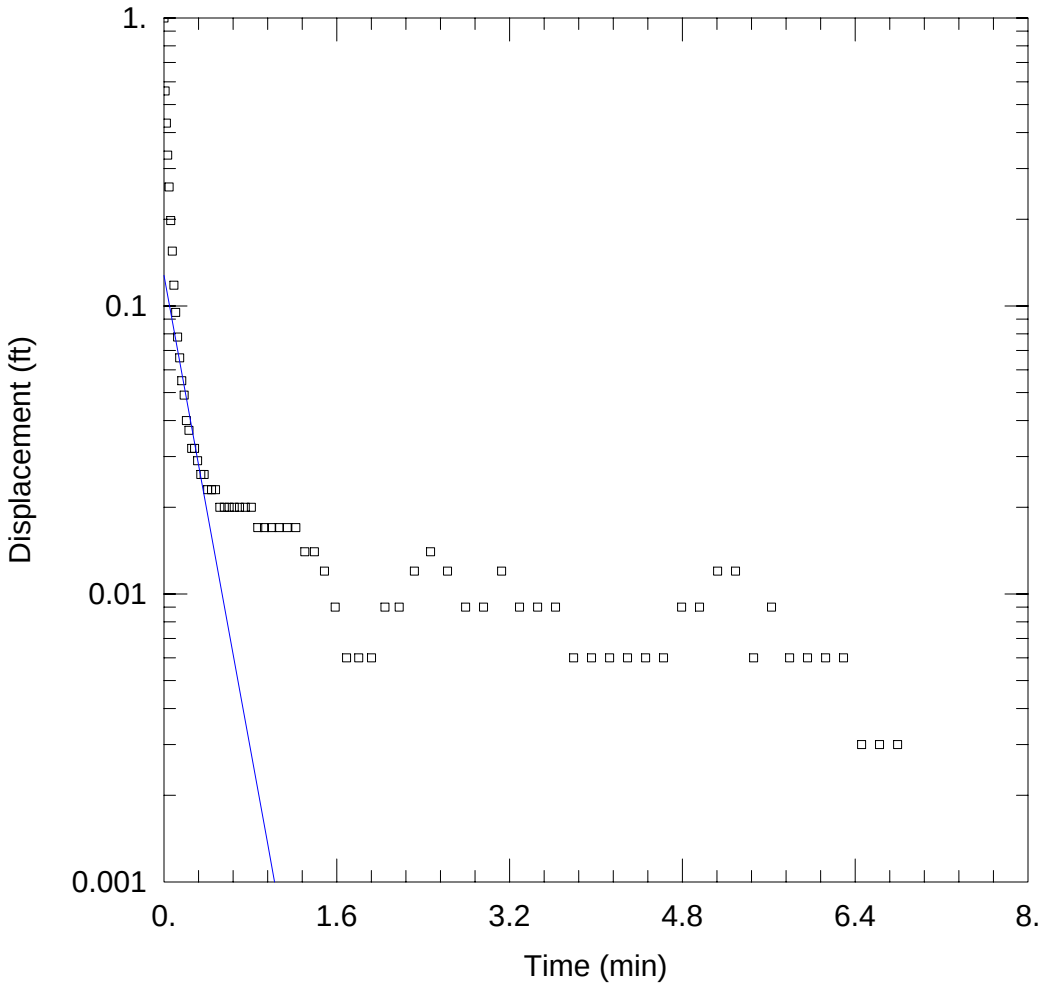
WELL DATA (MW-9)

Initial Displacement: 1. ft
Total Well Penetration Depth: 4.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 4.73 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.006462 ft/min y0 = 0.5028 ft



DCMW-3-RISING 1

Data Set: P:\...\DCMW_3.aqt
Date: 11/19/07 Time: 12:31:05

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-3-1
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

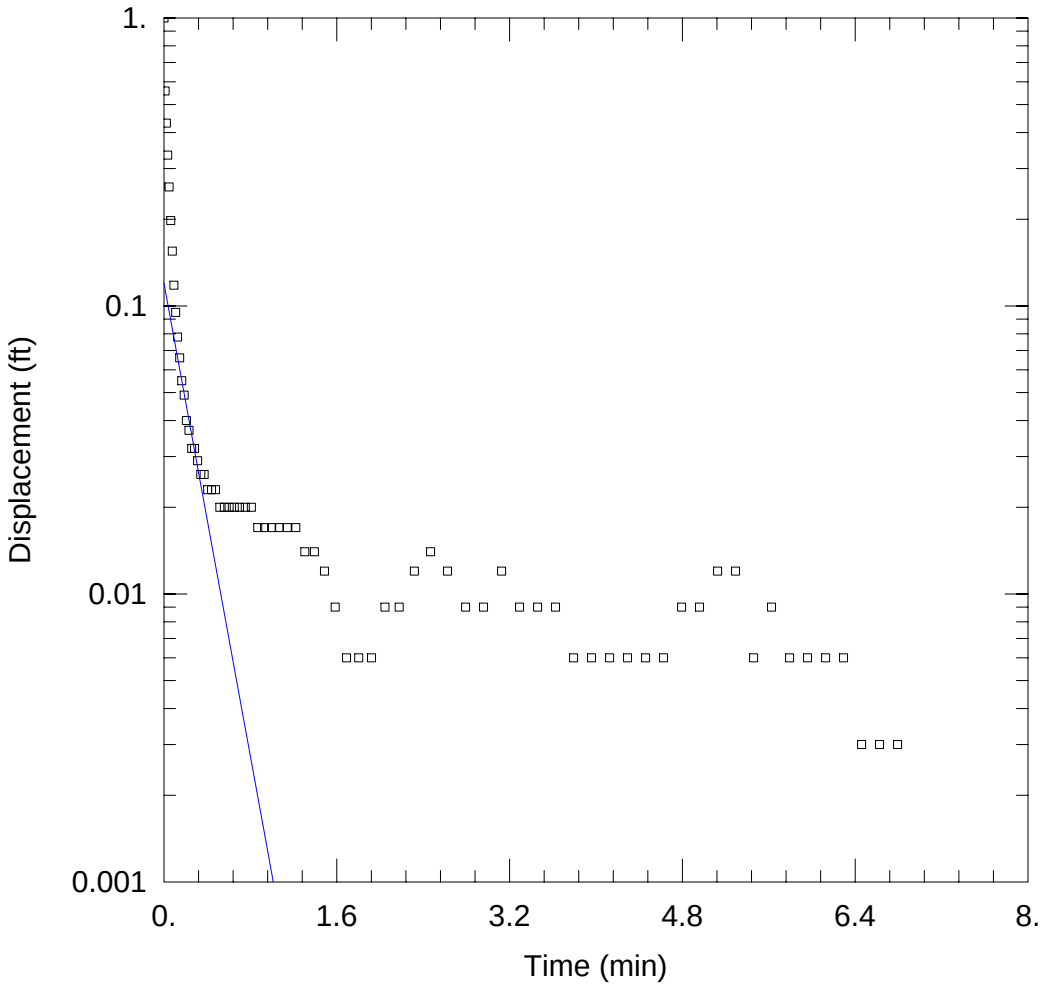
WELL DATA (DCMW-3)

Initial Displacement: 1. ft
Total Well Penetration Depth: 12.28 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.28 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.008756 ft/min y0 = 0.1275 ft



DCMW-3-RISING 1

Data Set: P:\...\DCMW_3.aqt
Date: 11/19/07 Time: 12:28:26

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-3-1
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

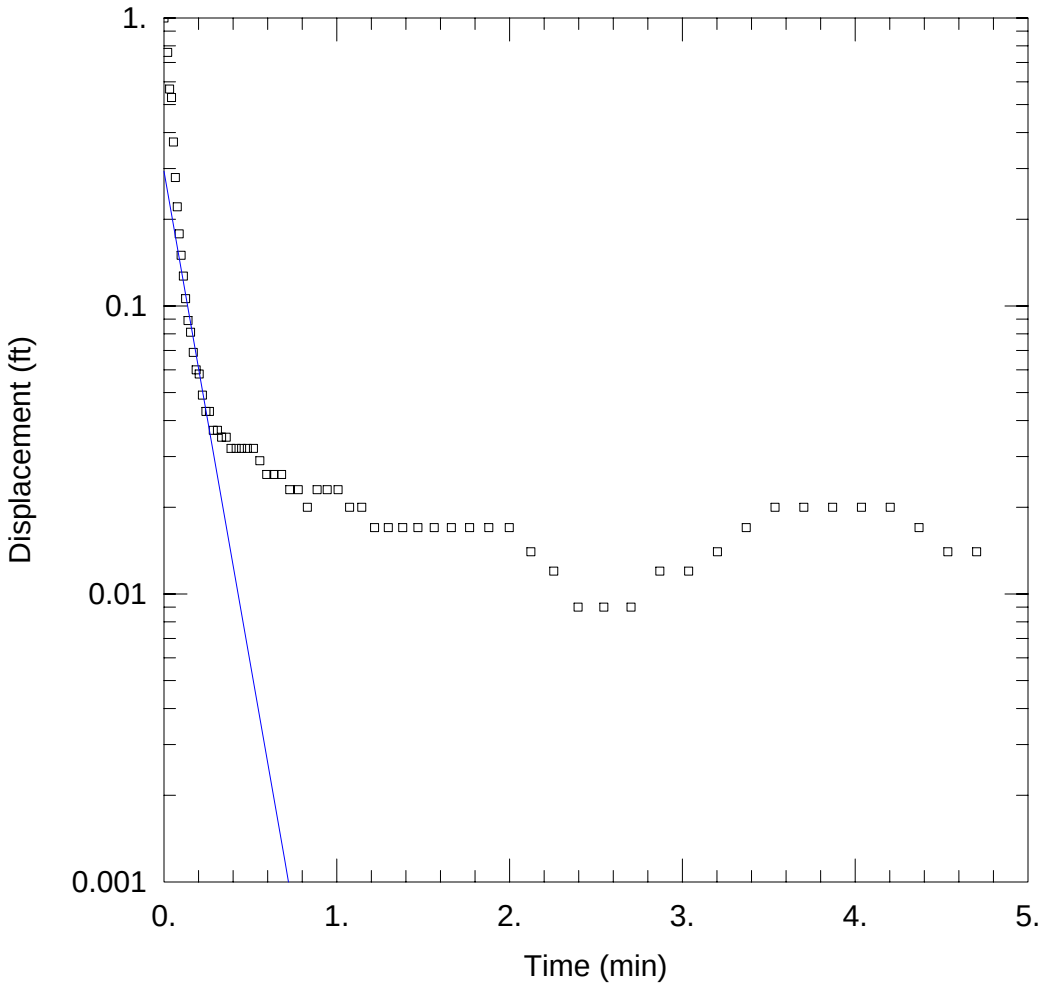
WELL DATA (DCMW-3)

Initial Displacement: 1. ft
Total Well Penetration Depth: 12.28 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.28 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.01268 ft/min y0 = 0.1198 ft



DCMW-3-RISING 2

Data Set: P:\...\DCMW_3.aqt
Date: 11/19/07 Time: 12:34:57

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-3-2
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

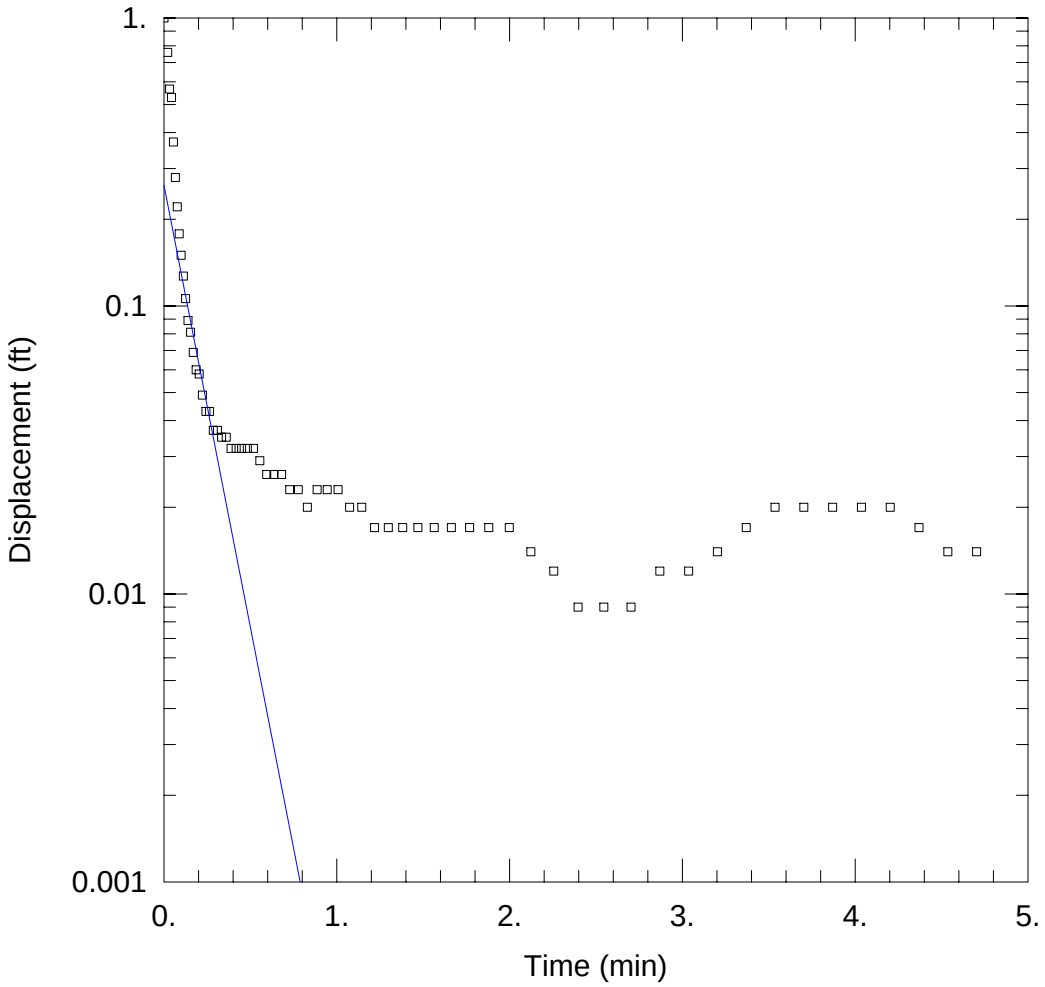
WELL DATA (DCMW-3)

Initial Displacement: 1. ft
Total Well Penetration Depth: 12.28 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.28 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.01458 ft/min y0 = 0.2934 ft



DCMW-3-RISING 2

Data Set: P:\...\DCMW_3.aqt
Date: 11/19/07 Time: 13:24:54

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-3-2
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

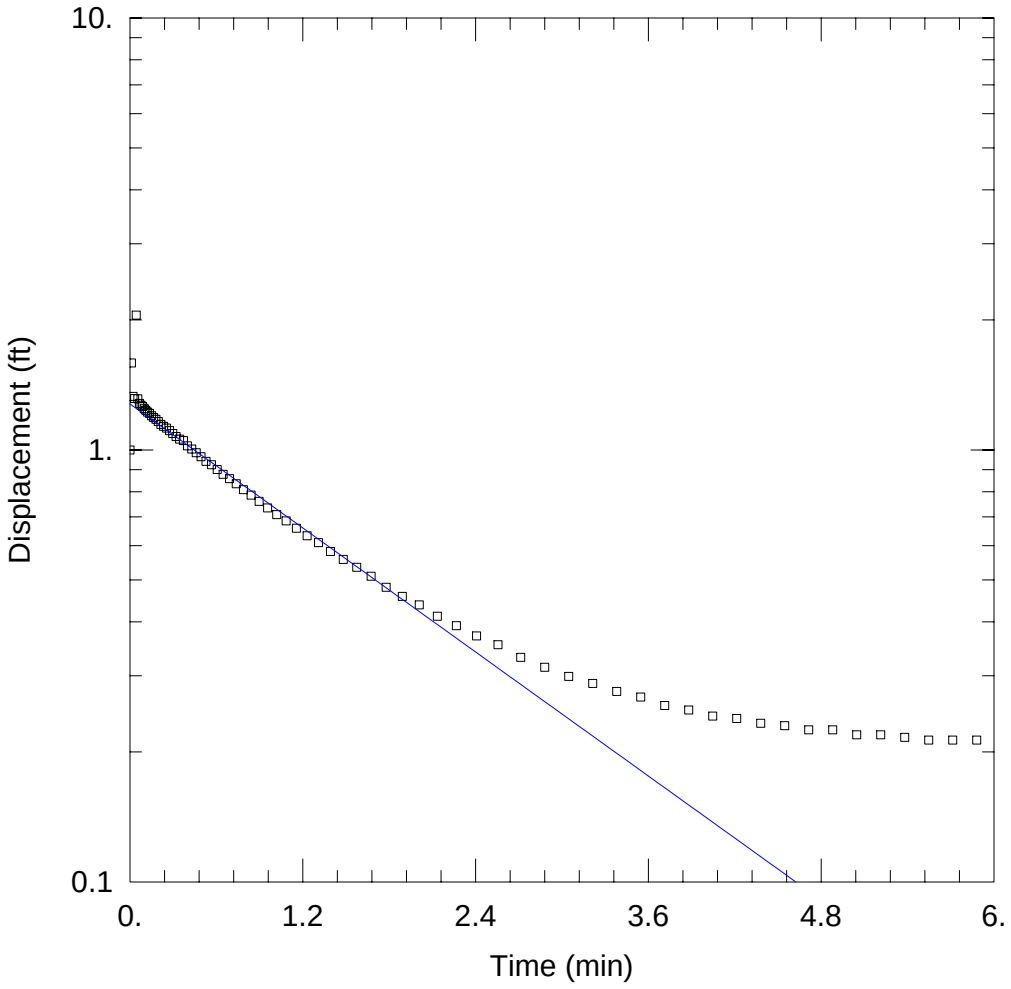
WELL DATA (DCMW-3)

Initial Displacement: 1. ft
Total Well Penetration Depth: 12.28 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.28 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.01896 ft/min y0 = 0.2622 ft



DCMW-4-RISING 1

Data Set: P:\...\DCMW_4.aqt
Date: 11/19/07 Time: 11:48:54

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-4-1
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

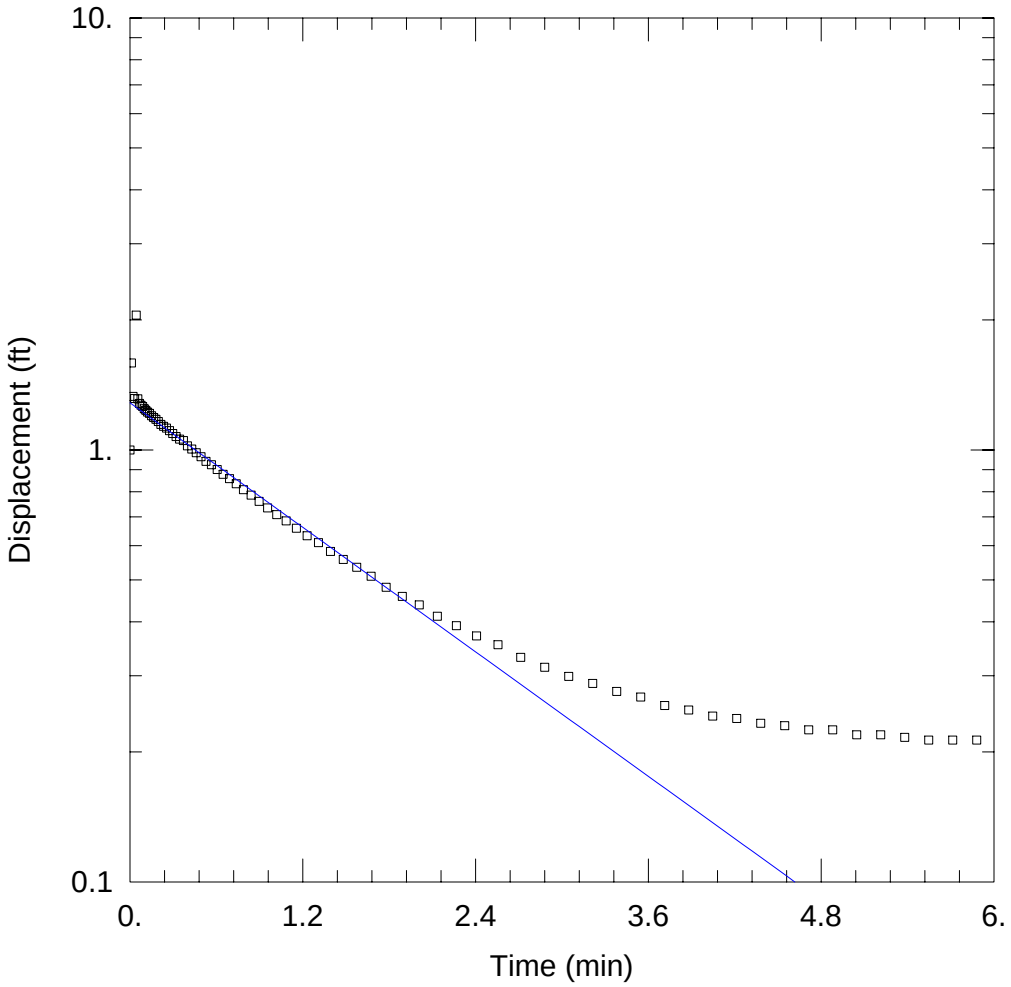
WELL DATA (DCMW-4)

Initial Displacement: 1. ft
Total Well Penetration Depth: 2.78 ft
Casing Radius: 0.083 ft
Static Water Column Height: 2.78 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0007326 ft/min y0 = 1.278 ft



DCMW-4-RISING 1

Data Set: P:\...\DCMW_4.aqt
Date: 11/19/07 Time: 11:50:33

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-4-1
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

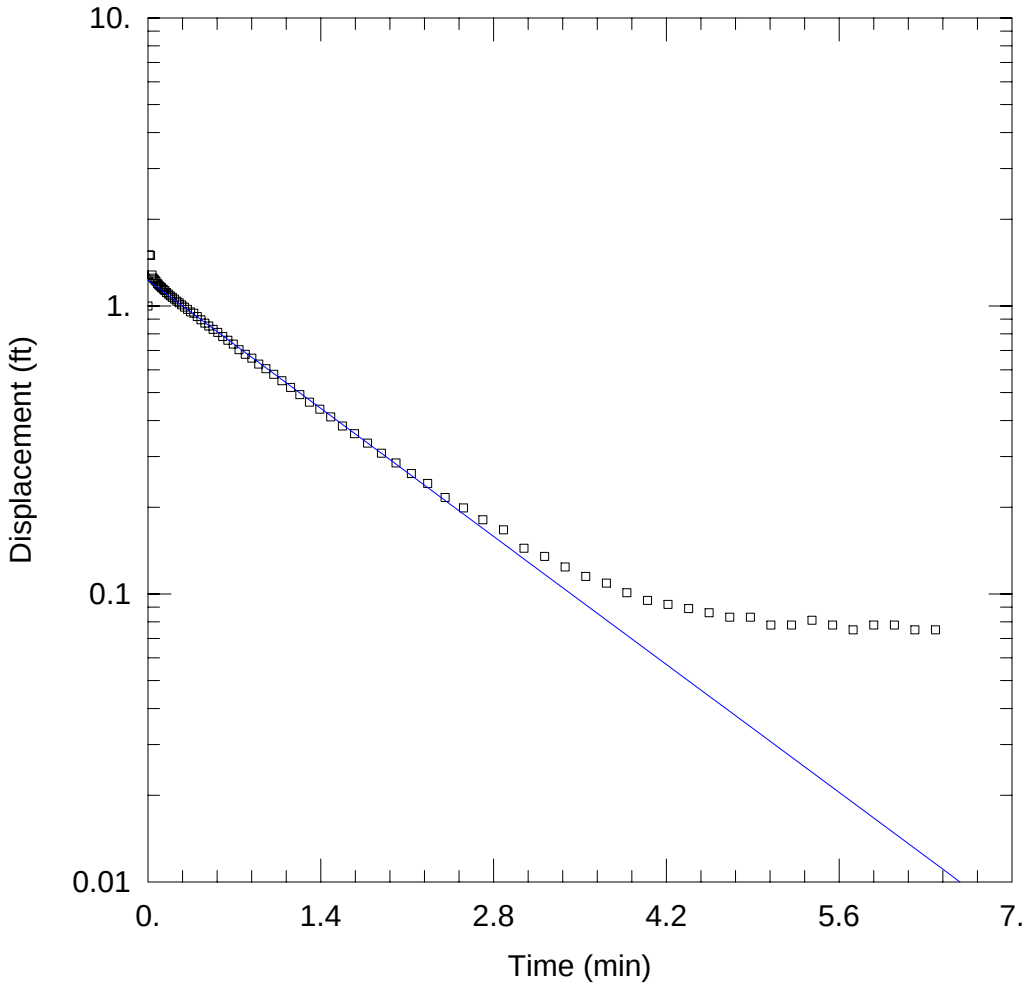
WELL DATA (DCMW-4)

Initial Displacement: 1. ft
Total Well Penetration Depth: 2.78 ft
Casing Radius: 0.083 ft
Static Water Column Height: 2.78 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.001483 ft/min y0 = 1.285 ft



DCMW-4-RISING 2

Data Set: P:\...\DCMW_4.aqt
Date: 11/19/07 Time: 11:29:31

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-4-2
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

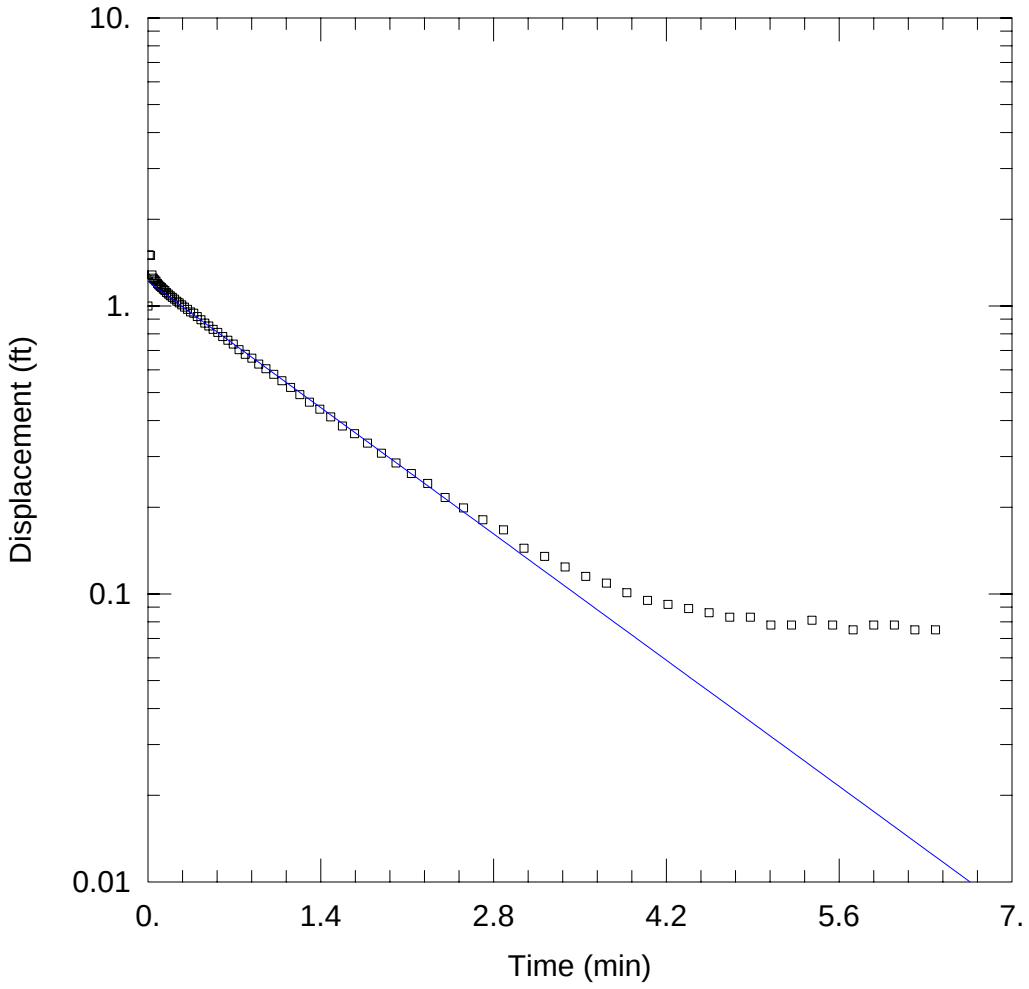
WELL DATA (DCMW-4)

Initial Displacement: 1. ft
Total Well Penetration Depth: 2.78 ft
Casing Radius: 0.083 ft
Static Water Column Height: 2.78 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0009719 ft/min y0 = 1.227 ft



DCMW-4-RISING 2

Data Set: P:\...\DCMW_4.aqt
Date: 11/19/07 Time: 11:37:22

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-4-2
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

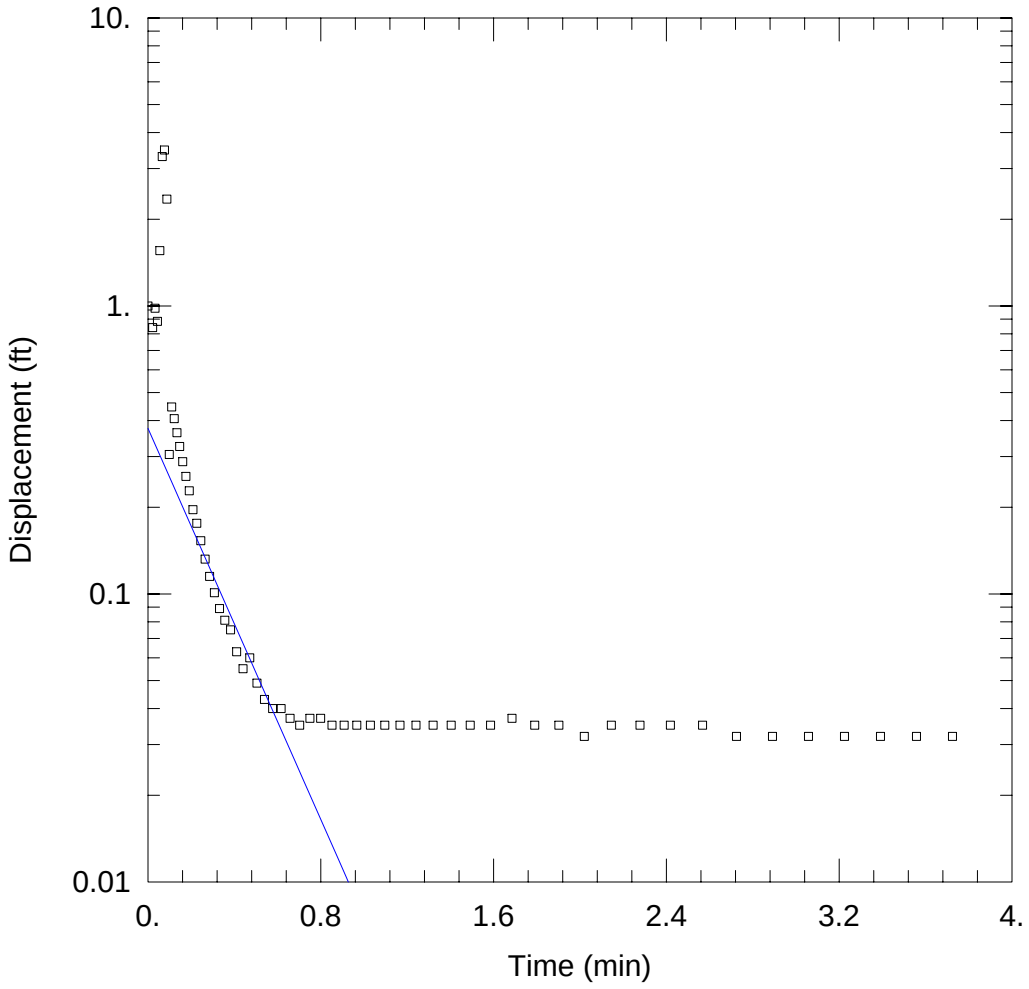
WELL DATA (DCMW-4)

Initial Displacement: 1. ft
Total Well Penetration Depth: 2.78 ft
Casing Radius: 0.083 ft
Static Water Column Height: 2.78 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.001934 ft/min y0 = 1.216 ft



DCMW-5-RISING 1

Data Set: P:\...\DCMW_5.aqt
Date: 11/19/07 Time: 12:04:29

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-5-1
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

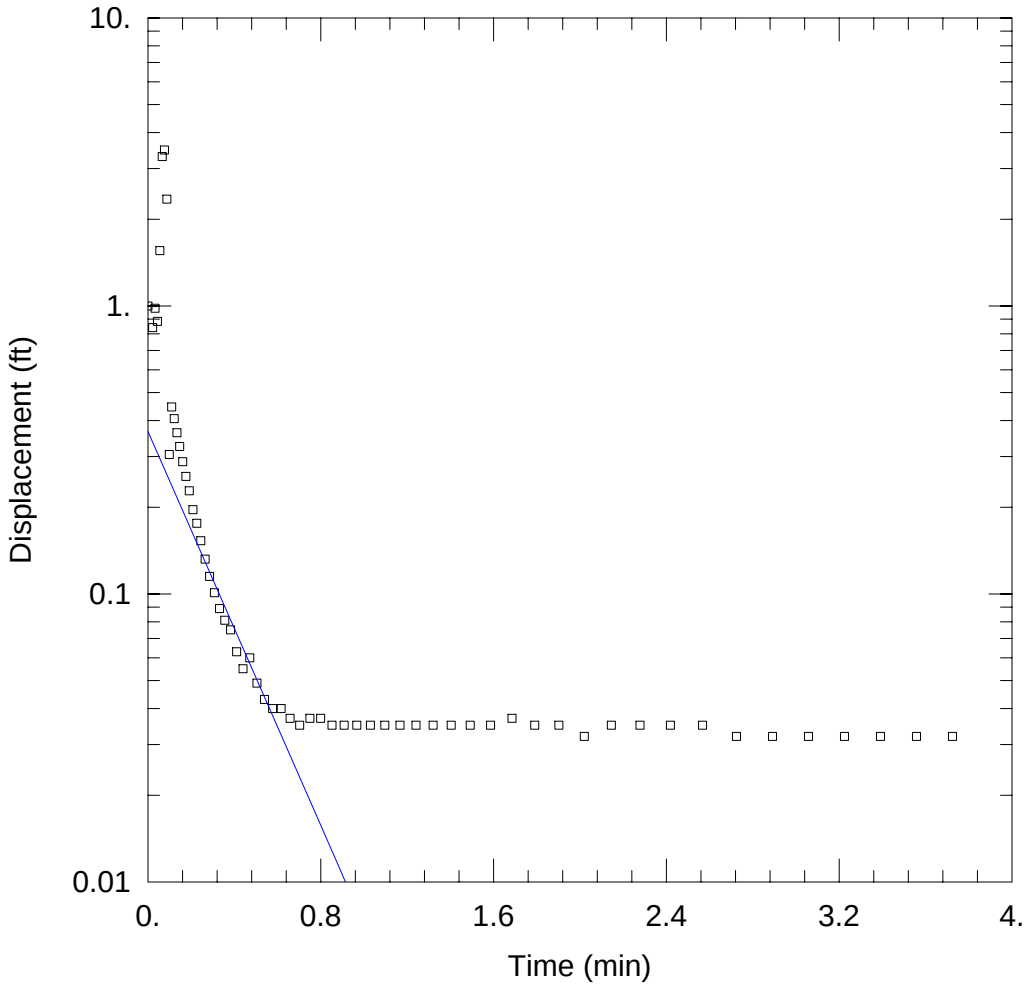
WELL DATA (DCMW-5)

Initial Displacement: 1. ft
Total Well Penetration Depth: 10.89 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.89 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.007072 ft/min y0 = 0.3757 ft



DCMW-5-RISING 1

Data Set: P:\...\DCMW_4.aqt
Date: 11/19/07 Time: 11:56:53

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-5-1
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

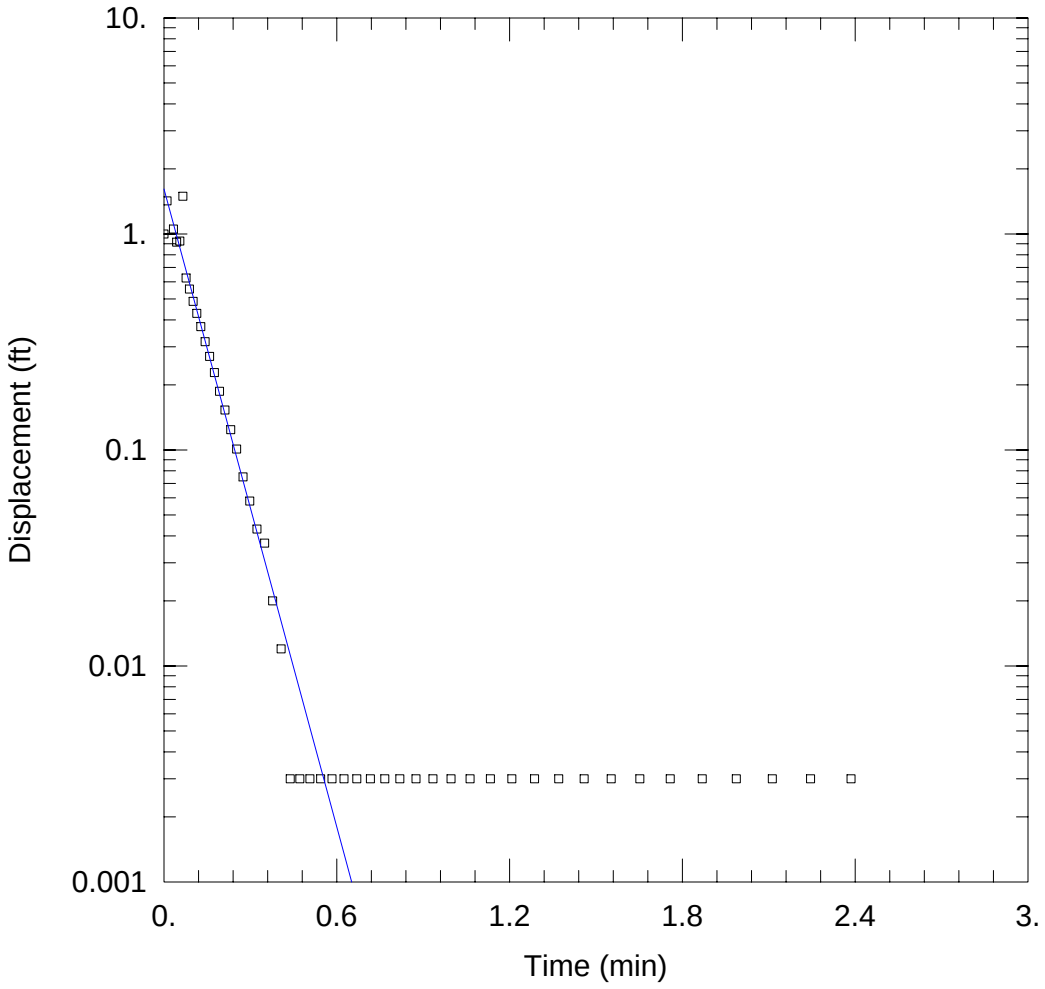
WELL DATA (DCMW-5)

Initial Displacement: 1. ft
Total Well Penetration Depth: 10.89 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.89 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.01056 ft/min y0 = 0.366 ft



DCMW-5-RISING 2

Data Set: P:\...\DCMW_5.aqt
Date: 11/19/07 Time: 12:10:10

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-5-2
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

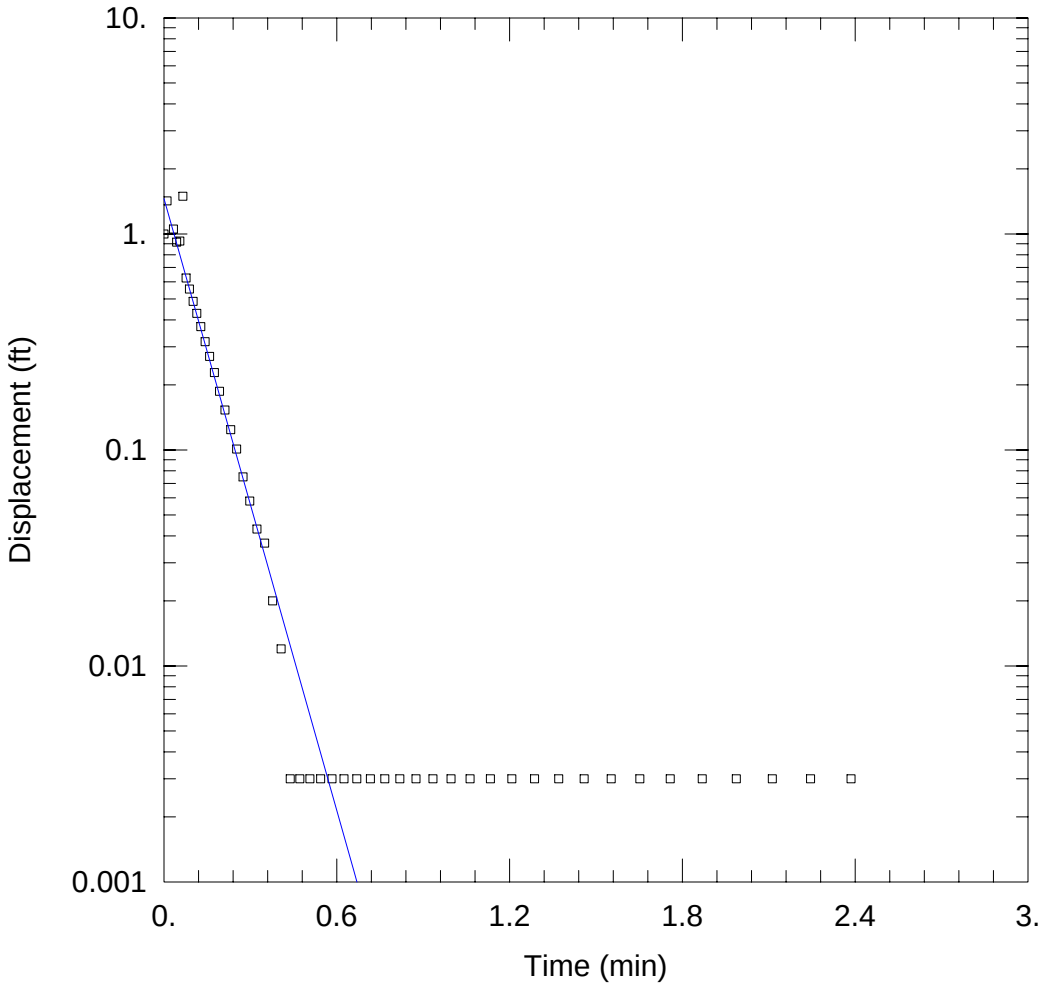
WELL DATA (DCMW-5)

Initial Displacement: 1. ft
Total Well Penetration Depth: 10.89 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.89 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.02051 ft/min y0 = 1.613 ft



DCMW-5-RISING 2

Data Set: P:\...\DCMW_5.aqt
Date: 11/19/07 Time: 12:12:37

PROJECT INFORMATION

Company: MACTEC
Client: NYSDEC
Location: ATRS-DC
Test Well: DCMW-5-2
Test Date: 8/29/07

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (DCMW-5)

Initial Displacement: 1. ft
Total Well Penetration Depth: 10.89 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.89 ft
Screen Length: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.02916 ft/min y0 = 1.456 ft