

**FINAL SITE CHARACTERIZATION
REPORT
REGION 8 DRY CLEANING SITES
LOOHNS CORNING SITE
CORNING, NEW YORK
SITE NO. 8-51-028**

WORK ASSIGNMENT NO. D004434-21

Submitted to:

**New York State Department of Environmental Conservation
Albany, New York**

Submitted by:

**MACTEC Engineering and Consulting, PC
Portland, Maine**

MACTEC No. 3612072075

MARCH 2007

This document was prepared for the sole use of New York State Department of Environmental Conservation, the only intended beneficiary of our work. No other party shall rely on the information contained herein without prior written consent of MACTEC Engineering and Consulting, PC.

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LIST OF ACRONYMS

ASP	Analytical Services Protocol
ASTM	American Society for Testing and Materials
bgs	below ground surface
Chemtech	Chemtech Consulting Group, Inc.
DUSR	Data Usability Summary Report
EDR	Environmental Data Resources, Inc.
°F	degrees Fahrenheit
MACTEC	MACTEC Engineering and Consulting, P.C.
msl	mean sea level
NYCRR	Title 6 New York Codes, Rules, and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	tetrachloroethene
PID	photoionization detector
ppm	parts per million
Report	Site Characterization Report
SC	Site Characterization
Site	Loohns Corning Site
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethelene
TCL	Target Compound List
TAGM	Technical Administration Guidance Memorandum
TICS	tentatively identified compounds
µg/Kg	micrograms per Kilogram
µg/L	micrograms per Liter
µg/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, PC (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 Loohns Corning site (Site), a former dry cleaner in Corning, New York (Figure 1.1). This Report was prepared in response to Work Assignment (WA) No. D004434-21, and in accordance with the requirements of the July 1997 Superfund Standby Contract No. D004434 between the NYSDEC and MACTEC. The Loohns Corning site is located approximately 1000 feet north of the City of Corning water supply well number 3.

This Report is one of five site-specific SC reports for the Region 8 Dry Cleaning Sites multiple site Site Characterizations WA that were performed under previous WA # D003826-20. The other four SC reports address the sites listed below:

- Crystal Cleaners (Site No. 8-51-022)
- Former American Dry Cleaners (Site No. 8-08-036)
- Castle Cleaners (Site No. 8-08-034)
- Former Helwigs Dry Cleaners (Site No. 8-51-023)

The Loohns Corning site, Site No. 8-51-028, is a potential hazardous waste site, currently listed as a Potential or “P” site by the NYSDEC, because insufficient information existed to determine whether wastes were disposed of at the site and whether, if present, those wastes posed 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 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 the environment is causing, or presents an imminent danger of causing, either irreversible or irreparable damage to the environment. |
|---------|---|

Class 2	Hazardous waste constitutes a significant threat to the environment as described in NYCRR Part 375 (NYS, 2006).
Class 3	Hazardous waste does not presently constitute a significant threat to the environment, as described in NYCRR Part 375 (NYS, 2006).
Not Listed	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 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 NYCRR Part 375 (NYSDEC, 2006).
- Identification of contaminant source.

To implement the SC, this WA was authorized and was divided into the following three tasks:

- Task 1: Work Plan Development,
- Task 2: Subsurface Investigations, and
- Task 3: Reporting.

This Report presents reclassification documentation collected by MACTEC during Task 1 and Task 2 so the NYSDEC can recommend follow up action for the site (i.e., reclassify, delist, or perform additional investigations). 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 is the introduction. Section 2 presents information collected during Task 1, which included a search of state and county site records, and a site inspection. Because Task 1 activities did not develop adequate data on which to base a delist or reclassification recommendation Task 2, Subsurface Investigation, was conducted. Section 3 of this Report presents the work conducted during Task 2: Subsurface Investigations. Section 4 presents results of the field investigation. Section 5 presents an investigation summary.

2.0 SITE BACKGROUND AND PHYSICAL SETTING

On September 9 and 10, 2005, MACTEC personnel reviewed available records from the NYSDEC office in Albany, New York, and visited the City of Corning, New York town offices. As part of the 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 Society for Testing and Materials (ASTM) recommended search radii. Complete lists of all recommended ASTM record searches for standard due diligence requirements are included in the EDR report provided under separate cover. The 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

Loohns Corning is located at 37 East Pulteney Street in a mixed residential/commercial neighborhood, in the City of Corning, Steuben County, New York. (Figure 1.1). The Site property consists of 0.5 acres including a retail building and a large parking lot. According to the City of Corning Assessors office, the Site building was constructed in 1971. The current building includes a convenient store (Coat's Convenient Store) on the west side, one vacant space and a tattoo parlor in the center, and an H&R Block financial services office on the east side. The former dry cleaner occupied one of the middle commercial spaces. The building is one story, and it is not known if any basement exists.

Residential property is located north of the site, a Pizza Hut Restaurant is located east of the Site, and commercial property is located west of the site. Additional commercial property is located south of the Site across Pulteney Street. The City of Corning public water supply well number 3 is located approximately 1000 feet south of the Site, at the intersection of Riverside and Ferris Streets.

2.2 SITE HISTORY

The original use of the property is unknown. The 1968 Sanborn Fire Insurance Map indicates a building on the site property in the approximate location of the current Site parking lot. The 1961, 1965 and 1970 Mannings City Directory list the property as a residence (35 Pulteney Street). According to discussions with the City of Corning tax assessor, the current site building was constructed in 1971. It is a one story cement block building.

No dry cleaner was listed at the location in the Corning City Directory of 1970, which is consistent with the information that the building was reportedly constructed in 1971. Although it is not known if a dry cleaner was one of the original tenants in 1971, Gilliam's One Hour Cleaners was listed at the location in the 1975 city directory. The 1981 and 1989 directories reviewed listed Loohns Cleaners Launderers, Inc. at the location. The date the dry cleaner ceased operations is not known.

The water main and sewer along Pulteney Street were installed in the early 1900's (Panton, 2005), and it is therefore assumed that the Site building has always been serviced by public water and sewer.

2.3 PREVIOUS INVESTIGATIONS

City of Corning Supply Wells. Chlorinated solvents were first detected in the City of Corning supply wells number 1 and 2 in the early 1980's. These wells are located approximately 950 feet and 1300 feet southeast of the Site, respectively, along the banks of the Cohocton River (Figure 1.1). The two wells are both screened from approximately 50 to 70 feet below ground surface (bgs). Pumping tests indicate that these wells can produce up to one million gallons a day, although they are currently run on an alternating 10 day schedules, with one well producing approximately one million gallons over the ten day period (total running time of approximately 24 hours), and then rotating to the next well for the subsequent ten day period (Panton, 2005).

Tetrachloroethene (PCE) has been detected at low concentrations in both wells. Concentrations typically range from non-detect to 14 micrograms per liter ($\mu\text{g/L}$), with slightly higher concentrations detected in Well 2 then Well 1. PCE was detected in the samples collected in the

2004 round at concentrations of 1.1 µg/L in Well 1 and 11 µg/L in Well 2. The NYS Class GA standard for PCE is 5 µg/L.

Sears-Brown Phase II – March 1997. Although no formal investigation reports were available for review prior to MACTEC's conducting the first round of Geoprobe sampling, the City of Corning Assessor indicated that a Phase II Site Assessment was conducted for the Site by Sears-Brown Group for Fleet Financial Group. The city assessor stated that the report recommended further testing at the Site. Although the Phase II Report was not submitted for regulatory review, two letters outlining additional Phase II and Remedial work were submitted to the NYSDEC after MACTEC had completed its initial field sampling effort. The Phase II work completed by Sears-Brown indicated that the soil to the rear of the building in the vicinity of the rear door of the former cleaners contained chlorinated solvents (PCE) at concentrations in exceedance of Technical Administration Guidance Memorandum (TAGM) 4046 soil cleanup objectives). In addition, PCE was detected in groundwater at the Site collected from two monitoring wells (MW-1 and MW-2, viewed during the Site walkover) in exceedance of Class GA groundwater standards. The monitoring wells are located in the vicinity of the Site building, one located north of the building, approximately 8 feet from the back door of the former dry cleaning tenant space, and one located south of the Site building, approximately 5 feet from the front door of the former dry cleaning tenant space.

One of the work plans recommended additional soil, groundwater and soil vapor sampling to better define the extent of contamination. The second work plan outlined potential remedial costs, assuming the removal of approximately 70 tons of contaminated soil and the installation of an air sparging and soil vapor extraction system. The two work plans are included in Appendix A.

Stantec Consulting Services – November 2005. In November 2005, Stantec Consulting Services collected groundwater samples from MW-1 and MW-2 for the new property owner (Cadle's Pulteney Street Plaza, Inc.) PCE, detected at a concentration of 41.3 µg/L in MW-1, was the only compound detected during the sampling round. The Stanton Consulting Services report is included in Appendix A.

Teeter Environmental Services, Inc.- May 2006. Teeter Environmental Services performed additional work for the new property owner (Ms. Angela Hickey) in April 2006 and completed a

report in May 2006. Field work included a one day Geoprobe effort and the collection of soil and groundwater samples. Due to the size of the Geoprobe rig and the limited access space to the rear of the Site building, no soil samples were collected in the vicinity of the rear door of the former dry cleaners, the location of the reported historic soil exceedances. No photoionization detector (PID) readings were noted over the soil samples, and no volatile organic compound (VOCs) were detected in the one soil sample analyzed. PCE was detected in two of the eight groundwater samples collected. PCE was detected in MW-1 at a concentration of 29.8 µg/L and in BS-9, located approximately 40 feet southeast of MW-2, at a concentration of 8.8 µg/L. The Teeter Environmental Services report is included in Appendix A.

2.4 PHYSICAL SETTING

Topography

The Site is located in the Chemung River Valley, which runs east-west. The Site property is located at 935 feet above mean sea level (msl), sloping slightly to the south. The surrounding area slopes slightly down to the south, before reaching the dike at the edge of the Chemung River, located 1000 feet from the Site. The Chemung River is located at an elevation of approximately 920 feet above msl, just south of the dike. The topography to the north of the site is relatively flat for approximately 0.7 miles, and then rises to a ridge at 1700 feet above msl approximately 1.75 miles from the Site.

Climate

The climate of the area is characterized by moderately warm summers and cold winters. Mean monthly temperatures range from 23 degrees Fahrenheit (°F) in January to 68°F in July. Average annual precipitation is 32 inches. Average annual snowfall is 37 inches (National Climatic Data Center, 2004).

Surface Water Hydrology

Surface drainage from the site generally follows the topography, flowing toward the municipal storm drains located on Pulteney Street. These storm drains flow to a treatment plant located

approximately 2.2 miles south east of the site. The treatment plant discharges to the Chemung River downstream of the site (Panton, 2005). The site is not located within the 100 or 500 year flood zones (EDR, 2006).

Groundwater Hydrology

The Chemung River is a local groundwater discharge area. Groundwater at the Site was encountered at approximately 15 feet bgs, and is interpreted to flow south towards the River. Groundwater contours for the greater Corning area also indicate that groundwater at the site flows in a southerly direction, towards the river (USGS, 1982).

Geology

Overburden soils at the Site consist primarily of fluvial silts, sands and gravels. Surficial geology is mapped as oxidized, non calcareous, fine sand to gravel (Muller et al., 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 Gardeau Formation, consisting of shale and siltstone; and/or Roricks Glen shale (Rickard and Fisher, 1970).

Site Walkover

On September 10, 2005 Chuck Staples, the MACTEC Site Lead, and Matthew Dunham, the NYSDEC Project Manager conducted a walkover of the Site area.

The site walkover consisted of viewing the Loohns Corning property, 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).

Potential sources of contamination (e.g., floor drains) were noted during the site walkover, but no positive sources of contamination (e.g. leaking drums) were 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 gathered during Task 2, Field Investigations.

2.5 FILE REVIEW

MACTEC reviewed files from various state and local agency offices to develop information to support a reclassification or delisting, and to help prepare the scope of work for the SC field investigations. The Site EDR report was also reviewed in preparation of this Report.

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 Corning City supply wells indicated the presence of chlorinated solvents (PCE) in groundwater. Spent chlorinated solvents not originating from a household sources, including PCE are included on both the USEPA's and the NYSDEC's lists of hazardous wastes. Under 6 NYCRR Part 371.4(a) (1), PCE constitutes hazardous waste from non-specified sources. Disposal of PCE was confirmed by available analytical results from the city supply wells, but the source was not identified.

As defined by 6 NYCRR Part 375, significant threat can be established by documenting a contravention of environmental standards. Surface water and groundwater are the only media for which NYS has promulgated standards. Under NYS Water Quality Regulations (6 NYCRR Parts 700-705) 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).

Analytical data from the Site was not available for review during Task 1, and therefore it was not known if the Site was the source of the PCE contamination detected in the City supply well or if the Site posed a significant threat. As a result, the SC field investigations were conducted to:

- collect the data necessary to verify the likelihood of uncontrolled waste disposal,
- determine if potential contamination present on the Site and is migrating offsite, 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 solvents (specifically PCE) present in the city supply wells originated from the Site, or if potential contaminants present at the site 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 if volatile VOC contamination is present in Site media and, if present, is it originating from the site and migrating offsite. An additional objective is to determine, if possible, whether the VOCs detected in the City supply wells originated from the Site. Task 3 was the preparation and distribution of this Report.

TASK 2 - FIELD INVESTIGATIONS

The following subsections describe the activities conducted during the field investigation portion of the Site SC. The work generally followed the scope of work as outlined in the SC Work Plan (MACTEC, 2005), with the exception that no access was given for the site property. The field investigation was conducted in accordance with the specifications presented in the Quality Assurance Program Plan (ABB-Environmental Services, 1995) and the site specific Quality Assurance Project Plan (MACTEC, 2005). Off-site laboratory analyses was performed by Chemtech Consulting Group, Inc. (Chemtech), a New York State Department of Health (NYSDOH) approved laboratory. Off-site laboratory analysis complied with the NYSDEC Analytical Services Protocols (ASP) (NYSDEC, 2000).

3.1 GENERAL FIELD ACTIVITIES

General field activities, including mobilization, health and safety, and decontamination, are described in the following subsections.

3.1.1 Mobilization

After receiving the NYSDEC authorization to begin fieldwork, MACTEC and its subcontractors conducted utility clearance, mobilized to the Site and began the field exploration program.

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 PID readings, no upgrades on 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 by 1) 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, or 2) steam cleaning the equipment and then allowing the equipment to air dry. Decontamination fluids did not exhibit visual or olfactory evidence of contamination and were released to the ground surface in the area of the exploration, so as to allow the liquids to infiltrate into the soil.

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 (ppm) 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.

3.1.5 Existing Well Sampling

One groundwater sample was obtained from each of the two existing groundwater wells on January 19, 2006, following low flow procedures. These samples were submitted to Chemtech and analyzed for target compound list (TCL) VOCs using USEPA OLM04.2 methods as described in the NYSDEC ASP of June 2000.

3.2 ROUND ONE GEOPROBE® BORINGS AND SAMPLING

Field investigation activities included the completion of Geoprobe® borings, the collection and analysis of groundwater, soil, and soil vapor samples, and the installation of microwells. Round One Geoprobe sampling was conducted on February 15 and 16, 2006. 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 to assist 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 were present in soils in the vicinity of the site, and, if possible, confirm a source of chlorinated solvents. Soil vapor sample 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® sampling device to collect groundwater, soil, and soil vapor samples to identify potential chlorinated solvents. The Geoprobe® pushes and/or hammers rods and probe tips into the subsurface for sample collection. A total of seven borings and three soil vapor points were completed, including the installation of four microwells. Borings included the collection of 12 groundwater samples, 2 soil samples, and 3 soil vapor samples.

MACTEC worked closely with the NYSDEC, the neighboring property owners, and utility companies to obtain access to the exploration locations. The Site property owner did not allow access to the Site property, or neighboring property to the east (Pizza Hut), so alternative locations

were chosen to determine groundwater conditions upgradient and downgradient of, as well as adjacent to, the site building. Sample locations are shown on Figure 3.1.

Soil Sampling. Soil samples were collected using a 4-foot long 2-inch diameter core sampler with an acrylic liner for the collection of discrete subsurface soil samples. Soil samples were collected continuously from the ground surface to the top of the groundwater table. PID headspace readings were used to screen soil samples for the presence of VOCs. Samples were described using the Unified Soil Classification System. The sample description and classification, VOC headspace reading, and boring observations were recorded on the Field Data Record, included in Appendix C. Based on the PID readings and physical evidence such as color or odor, two unsaturated soil samples (from locations GS-1 and GS-2, which coincide with locations GW-1 and GW-2, respectively, as shown on Figure 3.1) were submitted to the laboratory for analysis. Soil samples were shipped to Chemtech for analyses of TCL VOCs using USEPA OLM04.2 methods. Off-site laboratory analysis included Category B deliverables.

Groundwater Sampling. Groundwater samples were collected using a small diameter stainless steel wire wound screen that was exposed to the aquifer, after being pushed to the desired depth interval. A peristaltic pump was used for the collection of discrete groundwater samples. One tubing volume of water was purged and one set of parameters including temperature, conductivity, pH, and turbidity was collected before sampling. VOC samples were collected at a low purge rate (approximately 100 milliliters per minute) to minimize potential volatilization.

To assess vertical extent of contamination, MACTEC attempted to collect groundwater samples from two locations in each boring, the water table and 10 feet into the water table (10 feet below the first sample). The water table was encountered between 8 and 10 feet bgs.

Due to the soil formation, the actual number of samples per boring and sample collection depths varied. Only one groundwater sample was collected from five borings (GW-1, GW-2, GW-5 and GW-11). Two groundwater samples were collected at varying depths at all other boring locations (GW-6, GW-9, and GW-10). Groundwater samples were shipped to Chemtech for analyses of TCL VOCs using USEPA OLM04.2 Methods as described in the NYSDEC ASP of June 2000. Off-site laboratory analysis included Category B deliverables.

Microwell Installation. To determine groundwater flow direction at the Site, four Geoprobe® borings were completed as microwells (GW-1, GW-6, GW-10, and GW-11). Microwell locations are shown on Figure 3.1. Microwells were installed after soil and/or groundwater samples were collected from each boring. The microwells were installed as piezometers and used for water level measurements only. Microwells were constructed with schedule 40 polyvinyl chloride, with 10 foot lengths of 0.01-inch machine slotted well screens. The well screens were set across the water table to determine water table elevations and create a potentiometric map. The wells were constructed with a # 0 sand pack or native soil backfill and sealed at the ground surface with bentonite. The wells were completed with a locking cap and a six inch flush mount cover. The wells were developed for twenty minutes with a peristaltic pump to clean the screen and determine if the wells were conductive with groundwater. Well construction diagrams are included in Appendix C.

One round of groundwater levels was collected from the six microwells and two existing wells. Well caps were opened to allow the water in the wells to equilibrate to atmospheric pressure. Depth to water was measured with a conductivity probe from the top of the well riser. Groundwater table elevations were calculated from the well riser elevations and are shown on Table 3.1.

Soil Vapor Sampling. Three soil vapor samples (GV-1 to GV-3) were collected to evaluate the potential vapor migration of contaminants from the groundwater. Soil vapor samples were collected using a Geoprobe® sampling device. Locations are shown on Figure 3.1.

The Geoprobe® rods were pushed to between 6 and 8 feet bgs (expected to be below the rain infiltration line, but above the water table fringe zone). Soil vapor collected above the water table gives an indication of the possible vapor migration from potentially contaminated groundwater.

Soil vapor samples were collected from the Geoprobe® points. Upon reaching 6 feet bgs, the Geoprobe® rods were pulled back 0.5 feet, exposing the bottom of the open rods to the soil. The soil vapor sample was then collected using a sealed tubing system. In addition, the outside of the rods were sealed at the ground surface with pre-hydrated bentonite. Approximately 2 liters of soil vapor, plus the volume of the tubing, was purged at a rate of 200 milliliters per minute using 580B OVM PID pump before collecting samples. During the soil vapor purge, vapors were screened using a PID. In addition, helium leak tests were conducted on a subset of the Region 8 Dry

Cleaners Sites soil samples to ensure samples were representative of sub-surface conditions and not outdoor ambient air. Helium tests were set up by encapsulating the sample point with a bucket sealed to the ground surface with bentonite. The soil vapor samples were collected with one-liter SUMMA[®]-type canisters with flow valves (set to approximately 30 minutes per sample). Flow into the canisters was less than 0.1 liters per minute, as requested by the NYSDOH. Samples were sent to Chemtech for VOC analysis by USEPA Method TO-15.

3.3 ROUND TWO GEOPROBE[®] BORINGS AND SAMPLING

Based on results of the initial investigation, as well as the NYSDEC acquiring access the Site property, additional Geoprobe[®] borings were completed during Round Two, including the collection and analysis of groundwater and soil samples.

During Round Two, MACTEC used a Geoprobe[®] 66 DT rubber-mounted track rig sampling device to collect groundwater and soil samples to identify the presence of potential chlorinated solvents in Site media. A total of five soil and five groundwater borings and the collection of six groundwater samples and six soil samples were completed from October 30 to October 31, 2006.

Soil Sampling. Soil samples were collected using a 4-foot long 2-inch diameter core sampler with an acrylic liner for the collection of discrete subsurface soil samples. Soil samples were collected continuously from the ground surface to 12 feet bgs. PID headspace readings were used to screen soil samples for the presence of VOCs. Samples were described using the Unified Soil Classification System. The sample description and classification, VOC headspace reading, and boring observations were recorded on the Field Data Record, included in Appendix C.

Based on the PID readings and physical evidence such as color or odor, six unsaturated soil samples (from locations GS-1A through GS-5A, as shown on Figure 3.1) were submitted to Chemtech for analyses of TCL VOCs using USEPA OLM04.2 methods. Off-site laboratory analysis included Category B deliverables

Groundwater Sampling. Groundwater samples were collected using either a small diameter stainless steel wire wound screen or a 2” millslot screen sampler, depending on subsurface geologic conditions, which was exposed to the aquifer after being pushed to the desired depth interval. A

peristaltic pump was used for the collection of discrete groundwater samples. One tubing volume of water was purged and one set of parameters including temperature, conductivity, pH, and turbidity were collected before sampling. VOC samples were collected at a low purge rate (approximately 100 milliliters per minute) to minimize potential volatilization.

To assess vertical extent of contamination, MACTEC attempted to collect groundwater samples from two locations in each boring, the water table and 10 feet into the water table (10 feet below the first sample). The water table was encountered between 18 and 19 feet bgs.

Due to the soil formation, the actual number of samples per boring and sample collection depths varied. Only one groundwater sample was collected from borings GW-3A, GW-5A and GW-12A. Two groundwater samples were collected at varying depths from borings GW-7A and GW-8A. Groundwater sampling records are provided in Appendix C. Groundwater samples were shipped to Chemtech for analyses of TCL VOCs using USEPA OLM04.2 Methods as described in the NYSDEC ASP of June 2000. Off-site laboratory analysis included Category B deliverables.

MACTEC worked closely with the NYSDEC, the former Loohns Dry Cleaners property owner, the neighboring property owners, and utility companies to obtain access to the exploration locations. The additional locations for the borings are shown on Figures 3.1. Soil boring locations were chosen to determine if concentrations in soils exceed the Soil Cleanup Objectives. Groundwater boring locations were chosen to determine if concentrations in groundwater east of MW-1 were less than concentrations at MW-1 and to determine if chlorinated solvents were migrating off-site to the east at concentrations above the class GA criteria.

3.3.1 Indoor Air and Sub-Slab Vapor Sampling

Based on site observations during the field program, and discussions with the NYSDEC and the property owner, one sub-slab soil vapor sample (SV-1), one indoor air sample (IA-1), and one outside ambient air sample (AA-1) were collected on January 26, 2006. Location SV-1 is shown on Figure 3.1. Samples were collected from below the Site building concrete slab (below the former Loohns Dry Cleaners rental space), within the vacant retail space in the center of the building, and outside to the rear of the Site building to investigate the potential for vapor migration of contaminants

from the groundwater and soil beneath the Site into the occupied indoor spaces. An indoor air survey was also conducted at the time of sampling. Survey data sheets are included in Appendix C.

The sampling was completed by drilling a 1-inch diameter hole 2 inches into the concrete slab with a hammer drill. A 3/8-inch diameter hole was then advanced until the building slab was penetrated. The hole was then swept to remove drill cuttings/dust from the area. A ¼-inch piece of polyethylene 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 inside the one-inch hole, forming a seal. The stopper was then covered with bees wax to provide an impenetrable seal for the migration of indoor air into the sub-slab. One 60 cubic centimeter (cc) volume of air was purged from the tubing with a polyethylene syringe. A 6-liter SUMMA[®]-type canister with a 24-hour flow valve was connected to the tubing. The time of sample collection, canister vacuum (in inches Hg), weather conditions, and barometric pressure were recorded in the field log book.

The Indoor air sample and exterior ambient air sample were collected in 6-liter SUMMA[®]-type canisters from the vicinity of the sub-slab vapor sample collection point, and from outside the rear door of the facility (north side). The samples were collected from approximately four feet above ground level. The indoor air sample and exterior air sample were set up with 24-hour flow valves.

Once the sub-slab vapor sample canister, indoor air sample canisters, and exterior ambient air canister were set up, the valves from all containers were opened. The time of sample collection, canister vacuum (in inches Hg), and weather conditions were recorded in the field log book.

Approximately 24 hours after sample collection, the flow valves were shut off. The time, remaining vacuum in the canister, and weather conditions were noted in the field log book. The samples were delivered to Columbia 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 holes were sealed with a fast drying hydraulic concrete (i.e. Quickcrete).

3.4 SITE SURVEY

Upon completion of field investigation activities, MACTEC's survey subcontractor, Lu Engineers, completed a survey of the Site and surrounding area and create a base map. Horizontal locations were tied to the New York State Plane Coordinate System using North American Datum of 1983. The site plan provides horizontal locations of relevant Site features, including surrounding homes and businesses at a scale of 1 inch to 50 feet. Relevant features include, 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 two existing wells were tied to msl, North Atlantic Vertical Datum of 1988, and measured to an accuracy of 0.01 feet. Horizontal well measurements were to an accuracy of 0.1 feet.

The base map was used to accurately locate all Geoprobe[®] sample points, microwells, and any other media sampling locations. Temporary sample points were located using a Trimble global positioning system. Sample points are included on Figure 3.1, and the Lu Engineers Site survey is included in Appendix D.

4.0 DATA ASSESSMENT

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

4.1 ANALYTICAL RESULTS

Soil, groundwater, and soil vapor analytical results were compared to appropriate standards or guidelines. Reported concentrations of individual analytes indicating contravention of standards or guidelines are summarized in the following sections, and noted on Tables 4.1, 4.2, and 4.3.

A Data Usability Summary Report (DUSR) was completed in accordance with the NYSDEC's Guidance for the Development of Data Usability Summary Reports (NYSDEC, 1997). 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 a 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 OLM04.2 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 OLM04.2 Method is included in Appendix E.

Compounds qualified B indicates 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 indicates 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 standards, criteria or guidelines (SCGs) described below.

Soil Samples. Analytical results were compared to NYS Soil SCGs. Soil SCGs are based on the NYSDEC's Cleanup Objectives ("Technical and Administrative Guidance Memorandum [TAGM] 4046; Determination of Soil Cleanup Objectives and Cleanup Levels" and 6 NYCRR Subpart 375-6 - Remedial Program Soil Cleanup Objectives for unrestricted use).

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).

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.

Sub-Slab Vapor and Indoor Air Samples. Sub-slab vapor and indoor air samples were compared to Matrix 1 and Matrix 2 from the New York State Department of Health, Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Final, October 2006. In addition, indoor air sample results were compared to NYSDOH background values and the outdoor ambient air sample.

4.1.1 Soil Sample Results

A summary of target VOCs detected in soil samples for the January and October 2006 sample events are presented in Tables 4.1 and 4.2, respectively.

PCE was detected in one of the eight soil samples collected from the seven soil borings at a concentration above the NYS Soil Cleanup Objectives. PCE was detected at a concentration of 7300 D micrograms per Kilogram ($\mu\text{g}/\text{Kg}$) in a sample collected at a depth of 4-6 feet bgs from boring GS-1A, compared to a standard of 1300 $\mu\text{g}/\text{Kg}$. The only other detection of PCE was 4.4 J $\mu\text{g}/\text{Kg}$ at a sample collected from 3-5 feet bgs at boring GS-4A.

4.1.2 Groundwater Sample Results

A summary of target VOCs detected in groundwater samples from the January and October 2006 sampling events are presented in Tables 4.3 and 4.4 and maximum concentrations of PCE in groundwater from both events are presented on Figure 4.1.

PCE, the only target compound detected in groundwater above the instrument detection limit, was detected in 10 of the 21 samples collected (detected at nine of the 13 sample boring locations). Concentrations ranged from 2.1 J $\mu\text{g/L}$ (GW-2) to 37 J $\mu\text{g/L}$ (MW-1). Concentrations in the samples from MW-1 (37 J $\mu\text{g/L}$) and GW-8A (5.1 J $\mu\text{g/L}$) exceeded the NYS Class GA groundwater standard for PCE of 5 $\mu\text{g/L}$ (Figure 4.1). MW-1 is located on the north (or rear) side of the dry cleaning facility, and GW-8 is located on the southeast corner of the Site building. The additional seven borings with reported detections of PCE below NYS Class GA groundwater standards were located to the rear of the site facility in the vicinity of the potential source area (GW-2, GW-3A, GW-5A, and GW-7A), and to the south/south east of the Site facility in the interpreted down gradient groundwater flow direction (MW-2, GW-11, and GW-12A).

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

4.1.3 Geoprobe Soil Vapor Sample Results

A summary of target VOCs detected in Geoprobe exterior soil vapor samples is presented in Table 4.5.

Although there are no guidance values for soil vapor results collected outside the footprint of a building, VOCs were not detected in the soil vapor samples at concentrations above the NYSDOH guideline for sub-slab soil vapor. The only compounds for which sub-slab draft guidance numbers have been calculated are PCE, trichloroethylene (TCE), and 1,1,1-Trichloroethane (1,1,1-TCA). Although PCE, TCE and 1,1,1-TCA were detected in the Geoprobe soil vapor samples, the detections (highest concentrations of 76.7 J micrograms per cubic meter [$\mu\text{g/M}^3$], 1.29 J $\mu\text{g/M}^3$, and 10.3 BJ $\mu\text{g/M}^3$, respectively) were below any guidance value requiring mitigation or even

monitoring (mitigation guidance of 1000 $\mu\text{g}/\text{m}^3$, 250 $\mu\text{g}/\text{m}^3$, and 1000 $\mu\text{g}/\text{m}^3$, respectively – see NYSDOH Vapor Intrusion Matrix).

4.1.4 Sub-Slab Soil Vapor and Indoor Air Sample Results

A summary of target VOCs detected in the sub-slab soil vapor, indoor air, and outside ambient air samples is presented in Table 4.6.

PCE, the primary contaminant of concern, and most prevalent dry cleaning solvent, was detected at a concentration of 32,842 $\mu\text{g}/\text{M}^3$ in the sample collected from below the former dry cleaning facilities concrete slab. Although the indoor air analytical result for PCE of 35.8 $\mu\text{g}/\text{M}^3$ was below the NYSDOH regulatory guidance value for PCE of 100 $\mu\text{g}/\text{M}^3$, the NYSDOH recommends mitigation based on the soil vapor intrusion matrix for PCE (Matrix 2), considering both soil vapor and indoor air concentrations (NYSDOH, 2006).

4.2 POTENTIOMETRIC SURFACE MAP

The microwell survey and depth to water measurements were used to create a potentiometric surface water map (Figure 4-2). Microwell survey and water elevation data are presented in Table 3.1. Depth to water across the survey area varied from approximately 15 feet bgs to 16 feet bgs. Groundwater elevations varied from 914.20 feet above msl, to 913.88 feet above msl. The groundwater table gradient appears to be relatively flat, varying by only 0.38 feet in elevation over 240 feet of distance. Based on measured water table elevations, groundwater is interpreted to flow south, towards the Chemung River.

5.0 INVESTIGATION FINDINGS

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

- 1) The site is located in a residential neighborhood that is serviced by public water. Low concentrations of PCE have been detected in the City of Corning's public supply well #2, located approximately 950 feet southwest of the Site. Groundwater measurements collected at the Site indicate that groundwater flow is generally to the south towards the river and not towards this supply well, although it is towards public supply well #3.
- 2) PCE, a NYS listed hazardous waste, was detected at two on-site locations (MW-1 at a concentration of 37 J $\mu\text{g/L}$ and GW-8A at a concentration of 5.1 $\mu\text{g/L}$), at concentrations above the NYS standard for PCE of 5 $\mu\text{g/L}$. PCE was detected in groundwater samples collected downgradient of the Site building (MW-2, GW-8, and GW-12) and downgradient of the Site property line (GW-11) at concentrations below the NYS standard. Although concentrations and locations of PCE detected in groundwater indicate that hazardous wastes (specifically PCE) were released at the Site (e.g., no or trace PCE detections in upgradient samples from GW-1, GW-2, and GW-10), analytical results do not indicate that PCE contamination is migrating off-site in groundwater at concentrations above the NYS standards.
- 3) Although only trace concentrations of PCE, TCE, and 1,1,1-TCA were detected in soil vapor samples collected from Geoprobe borings around the Site property (each less than 80 $\mu\text{g/M}^3$), sub-slab soil vapor results for PCE of 32,842 ED $\mu\text{g/M}^3$ indicate a need for mitigation based on Matrix 2 from the New York State Department of Health, Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Final, October 2006.
- 4) PCE was detected in soil in the vicinity of the rear door of the former dry cleaners at a concentration of 7,300 $\mu\text{g/Kg}$, compared to a Soil Cleanup Objective of 1,300 $\mu\text{g/Kg}$. It is likely that contaminants were disposed of in this area.

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

- 1) Although it is possible that the PCE concentration detected in sub-slab soil vapor (32,842 ED $\mu\text{g/M}^3$) is a result of the soil contamination located behind the Site building (7,300 $\mu\text{g/Kg}$) (see calculations included in Appendix F), no sampling was conducted below the Site building and it is not known if potential PCE contamination exists in soil below the former dry cleaners concrete slab.
- 2) The aerial and vertical extent of soil contamination has not been fully defined.

6.0 REFERENCES

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TABLES

Table 3.1: Monitoring Well and Microwell Details

Location	Northing	Easting	Casing Elevation	Riser Elevation	DTW 2/16/2006	Water Elevation 2/16/06
GW-1	784321.73	691285.11	930.81	930.55	16.35	914.20
GW-6	784117.17	691201.44	929.79	929.50	15.37	914.13
GW-10	784242.40	691196.54	929.99	929.73	15.55	914.18
GW-11	784082.33	691386.76	929.16	928.99	15.11	913.88
MW-1	784261.36	691273.53	929.83	929.70	15.50	914.20
MW-2	784181.22	691279.00	929.96	929.64	15.46	914.18

Notes:

DTW = Depth to water as measured from top of PVC riser by MACTEC Engineering.
Wells surveyd by Lu Engineers -March 2006.

Created By: CRS 4/20/06
Checked By: KLT 7/20/06

Table 4.1: January Soil Sample VOC Results

Location Name		GS-1 (GW-1)		GS-2 (GW-1)	
Field Sample Id		LCGS00101201XX		LCGS00201501XX	
Surface Depth (ft bgs)		12-14		15-17	
Field Sample Date		2/15/2006		2/15/2006	
QC Code		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier
Xylene, m/p	260	0.71	J	11	UJ

Notes:

Results reported in micrograms per kilogram ($\mu\text{g}/\text{kg}$)

Only detected compounds are shown. Samples were analyzed for VOCs by EPA Method OLM04.2

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

Criteria = Values from Subpart 375-6.8(a) Unrestricted Use Soil Cleanup, "Remedial Program Soil Clean-up Objectives" (NYSDEC, 2006)

Table Created by: ASZ 6/1/06

Table Checked by: CRS 7/17/06

Table 4.2: October Soil VOC Results

Parameter	Location Sample Date Sample ID Sample Depth (ft bgs) QC Code Criteria	GS-1A 10/31/2006 LCGS00100401XX		GS-2A 10/31/2006 LCGS00200401XX		GS-3A 10/31/2006 LCGS00300301XX		GS-4A 10/31/2006 LCGS00400701XD		GS-4A 10/31/2006 LCGS00400701XX		GS-4A 10/31/2006 LCGS00400901XX		GS-5A 10/31/2006 LCGS00500201XX	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
2-Butanone	120	59	U	55	U	58	U	53	U	54	U	8.1	J	54	U
Acetone	50	59	U	55	U	58	U	53	U	54	U	100	B	54	U
Benzene	60	3	J	11	U	1.4	J	11	U	11	U	11	U	11	U
Chloroform	370	12	U	11	U	12	U	11	U	11	U	7.5	J	11	U
Ethyl benzene	1000	3.1	J	11	U	1.2	J	0.65	J	0.84	J	11	U	1.9	J
o-Xylene	260	3.9	J	11	U	1.3	J	0.66	J	0.81	J	11	U	0.55	J
Tetrachloroethene	1300	7300	D	11	U	4.4	J	11	U	11	U	11	U	11	U
Toluene	700	11	J	0.85	J	2	J	1.9	J	2.3	J	1.6	J	1.1	J
Xylene, m/p	260	5.4	J	11	U	1	J	2.2	J	2.4	J	11	U	1.8	J

Notes:

Only Detected Compounds shown. Samples analyzed for VOCs by USEPA Method OLM04.2.

Results in microgram per kilogram (µg/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 reporting limit

J = Estimated value

B = Compound detected in blank

Criteria = Values from Subpart 375-6.8(a) Unrestricted Use Soil Cleanup, "Remedial Program Soil Clean-up Objectives" (NYSDEC, 2006)

Created by: ASZ 2/1/07
 Checked by: CRS 2/13/07

Table 4.3: January Groundwater VOC Results

Location Name		GW-1		GW-2		GW-5		GW-5		GW-5		GW-6	
Field Sample Id		LCGW00102601XX		LCGW00202201XX		LCGW00501501XA		LCGW00502201XD		LCGW00502201XX		LCGW00601801XA	
Sample Depth (ft bgs)		26		22		15		22		22		18	
Field Sample Date		2/15/2006		2/15/2006		2/16/2006		2/16/2006		2/16/2006		2/16/2006	
QC Code		FS		FS		FS		FD		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Tetrachloroethene	5*	10	UJ	2.1	J	10	U	10	U	10	U	10	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds are shown. Samples were analyzed for VOCs by EPA Method OLM04.2

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = New York State Standard

Results in **BOLD** exceed associated criteria

Table Created by: ASZ 6/1/06

Table Checked by: CRS 7/17/06

Table 4.3: January Groundwater VOC Results

Loc Name		GW-6		GW-9		GW-9		GW-9		GW-10		GW-11	
Field Sample Id		LCGW00602501XX		LCGW00902001XA		LCGW00902501XB		LCGW00903001XX		LCGW01002401XX		LCGW01101801XA	
Sample Depth (ft bgs)		25		20		25		30		24		18	
Field Sample Date		2/16/2006		2/15/2006		2/15/2006		2/15/2006		2/15/2006		2/16/2006	
QC Code		FS		FS		FS		FS		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Tetrachloroethene	5*	10	U	10	UJ	10	UJ	10	UJ	10	UJ	3.9	J

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds are shown. Samples were analyzed for VOCs by EPA Method OLM04.2

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = New York State Standard

Results in **BOLD** exceed associated criteria

Table Created by: ASZ 6/1/06

Table Checked by: CRS 7/17/06

Table 4.3: January Groundwater VOC Results

Loc Name		GW-11		MW-1		MW-2	
Field Sample Id		LCGW01102601XX		LCMW00101701XX		LCMW00201701XX	
Sample Depth (ft bgs)		26		17		17	
Field Sample Date		2/16/2006		1/19/2006		1/19/2006	
QC Code		FS		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier
Tetrachloroethene	5*	10	U	37	J	2.5	J

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds are shown. Samples were analyzed for VOCs by EPA Method OLM04.2

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = New York State Standard

Results in **BOLD** exceed associated criteria

Table Created by: ASZ 6/1/06

Table Checked by: CRS 7/17/06

Table 4.4: October Groundwater VOC Results

	Location	GW-3A	GW-3A	GW-5A	GW-7A	GW-7A	GW-8A						
	Sample Date	10/31/2006	10/31/2006	10/31/2006	10/31/2006	10/31/2006	10/30/2006						
	Sample ID	LCGW00302001XD	LCGW00302001XX	LCGW00502101XX	LCGW00702501XX	LCGW00702101XX	LCGW00802501XX						
	Sample Depth (ft bgs)	20	20	21	25	21	25						
	QC Code	FD	FS	FS	FS	FS	FS						
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier						
Tetrachloroethene	5	3.4	J	2.9	J	3.3	J	1.4	J	3.7	J	10	U

Notes:

Only Detected Compounds shown. Samples analyzed for VOCs by USEPA Method OLM04.2.

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 reporting limit

J = Estimated value

Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1,

Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 1998).

All Criteria listed are New York State Groundwater Standards.

Results in **BOLD** exceed associated criteria

Table 4.4: October Groundwater VOC Results

	Location	GW-8A	GW-12A
	Sample Date	10/30/2006	10/30/2006
	Sample ID	LCGW00801901XX	LCGW01202001XX
	Sample Depth (ft bgs)	19	20
	QC Code	FS	FS
Parameter	Criteria	Result	Qualifier
Tetrachloroethene	5	5.1 J	2.5 J

Notes:

Only Detected Compounds shown. Samples analyzed for VOCs by USEPA Method OLM04.2.

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 reporting limit

J = Estimated value

Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1,

Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 1998).

All Criteria listed are New York State Groundwater Standards.

Results in **BOLD** exceed associated criteria

Table 4.5: Soil Vapor Sample Results

Location Name Field Sample Id Sample Depth (ft bgs) Field Sample Date QC Code Paramater	GV-1 LCGV00100601XX 6-7 2/16/2006 FS Result Qualifier	GV-2 LCGV00200601XX 6-7 2/16/2006 FS Result Qualifier	GV-3 LCGV00300601XX 6-7 2/16/2006 FS Result Qualifier
1,1,1-Trichloroethane	6.75 BJ	10.3 BJ	9.25 BJ
1,2,4-Trimethylbenzene	12.8 J	27.5 J	27 J
1,3,5-Trimethylbenzene	8.25 J	4.91 UJ	4.91 UJ
2-Butanone	20.7	61.3	10.3
2-Propanol	78.5	52.8	27.5
4-Ethyltoluene	1.96	4.91 U	4.91 U
Acetone	177	316	231
Benzene	43	59.7	8.61
Carbon disulfide	25.2	120	3.11 U
Chloromethane	0.82	2.04 U	2.04
Cyclohexane	114	182	3.35 U
Dichlorodifluoromethane	3.76 J	4.95 U	4.95 U
Ethyl acetate	15.5	3.6 U	22.3
Ethyl benzene	4.68	5.64	4.34 U
Heptane	159	311	20
Hexane	225	475	127
Methylene chloride	29.8	31.3	80.3
o-Xylene	5.72	6.5	4.34 U
Propylene	258 D	602 D	105
Styrene	6.13	4.25 U	4.25 U
Tetrachloroethene	39.1 J	76.7 J	5.43 J
Toluene	93.8	95.2	23
Trichloroethene	1.29 J	2.68 UJ	2.68 UJ
Trichlorofluoromethane	2.24	5.6 U	5.6 U
Xylene, m/p	19.2	18.6	8.67 U

Notes:

Results reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Only detected compounds are shown. Samples were analyzed for VOCs by Method TO-15

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

D = Result was reported from a diluted analytical run

B = Analyte was detected in both the blank and field sample

Table Created by: ASZ 6/1/06

Table Checked by: CRS 7/17/06

Table 4.6: Sub-Slab Soil Vapor, Indoor Air and Ambient Air Results

Location Sample Date Sample ID Sample Depth (ft bgs) Qc Code	AA-1 11/1/2006 LCAA00100101XX		SV-1 11/1/2006 LCSV00100101XX		IA-1 11/1/2006 LCIA00100101XX	
	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	1.09	U	3.48		1.09	U
1,2,4-Trimethylbenzene	0.98	U	7.26		2.75	
1,2-Dichloropropane	0.92	U	4.62		0.92	U
1,3,5-Trimethylbenzene	0.98	U	2.26		1.18	
2-Butanone	1.18	UJ	31	J	16.5	J
2-Propanol	3.29		0.98	U	21.5	
4-Ethyltoluene	0.98	U	2.36		1.87	
4-Methyl-2-pentanone	1.64	UJ	4.17	J	1.64	UJ
Acetone	0.95	U	265	D	0.95	U
Benzene	3.57		45.9		20	
Carbon disulfide	0.62	U	9.14		0.62	U
Chloroform	0.97	U	1.36		0.97	U
Chloromethane	1.06		0.45		1.1	
Cis-1,2-Dichloroethene	0.79	U	4.44		0.79	U
Cyclohexane	0.67	U	25.5		2.41	
Dichlorodifluoromethane	2.97		3.17		4.16	
Ethyl acetate	392	DJ	313	D	176	D
Ethyl benzene	0.87	U	14.7		8.93	
Heptane	0.98		57.6		15.8	
Hexane	1.41	U	34.8		1.41	U
Isooctane	0.93	U	0.93	U	2.42	
Methylene chloride	1.46		1.53		1.39	U
o-Xylene	0.87	U	6.24		3.64	
Styrene	0.85	U	5.27		0.94	
Tetrachloroethene	1.63		32,842	ED	35.8	
Toluene	7.07		1583	D	1114	D
Trichloroethene	1.07	U	103		1.07	U
Trichlorofluoromethane	1.79		2.35		2.35	
Vinyl acetate	8.86	J	0.7	U	4.64	
Vinyl chloride	0.51	U	0.51	U	0.66	
Xylene, m/p	1.73	U	17.4		11.7	

Notes:

Only Detected Compounds shown. Samples analyzed for VOCs by USEPA Method TO-15.

Results in microgram per cubic meter ($\mu\text{g}/\text{m}^3$)

ft bgs = feet below ground surface

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

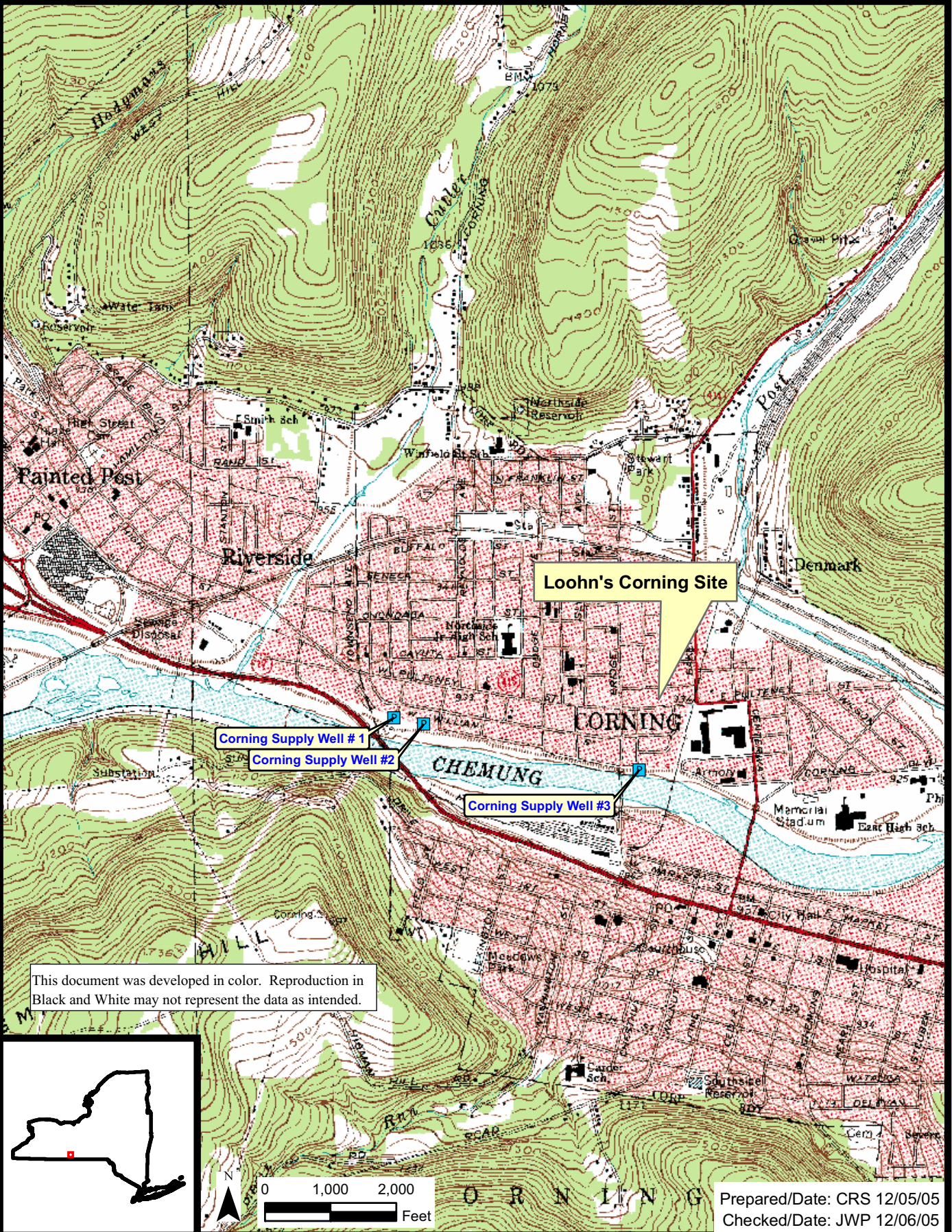
E = Result exceeded the calibration curve of the instrument

Trichloroethene results in **BOLD** exceed the sub-slab guidance criteria recommending remediation of 1000 $\mu\text{g}/\text{m}^3$ established in Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Created by: ASZ 2/1/07

Checked by: CRS 2/13/07

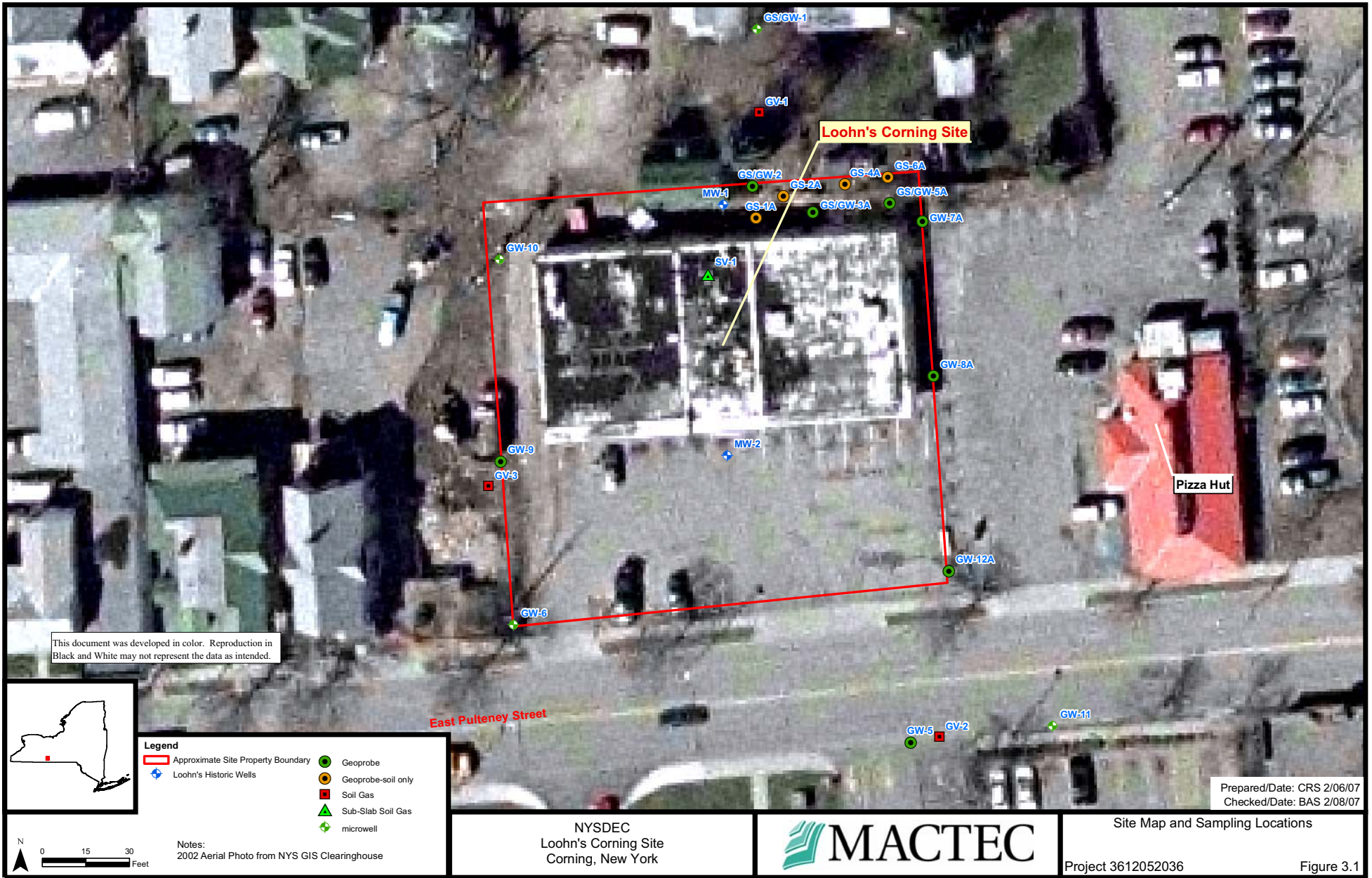
FIGURES

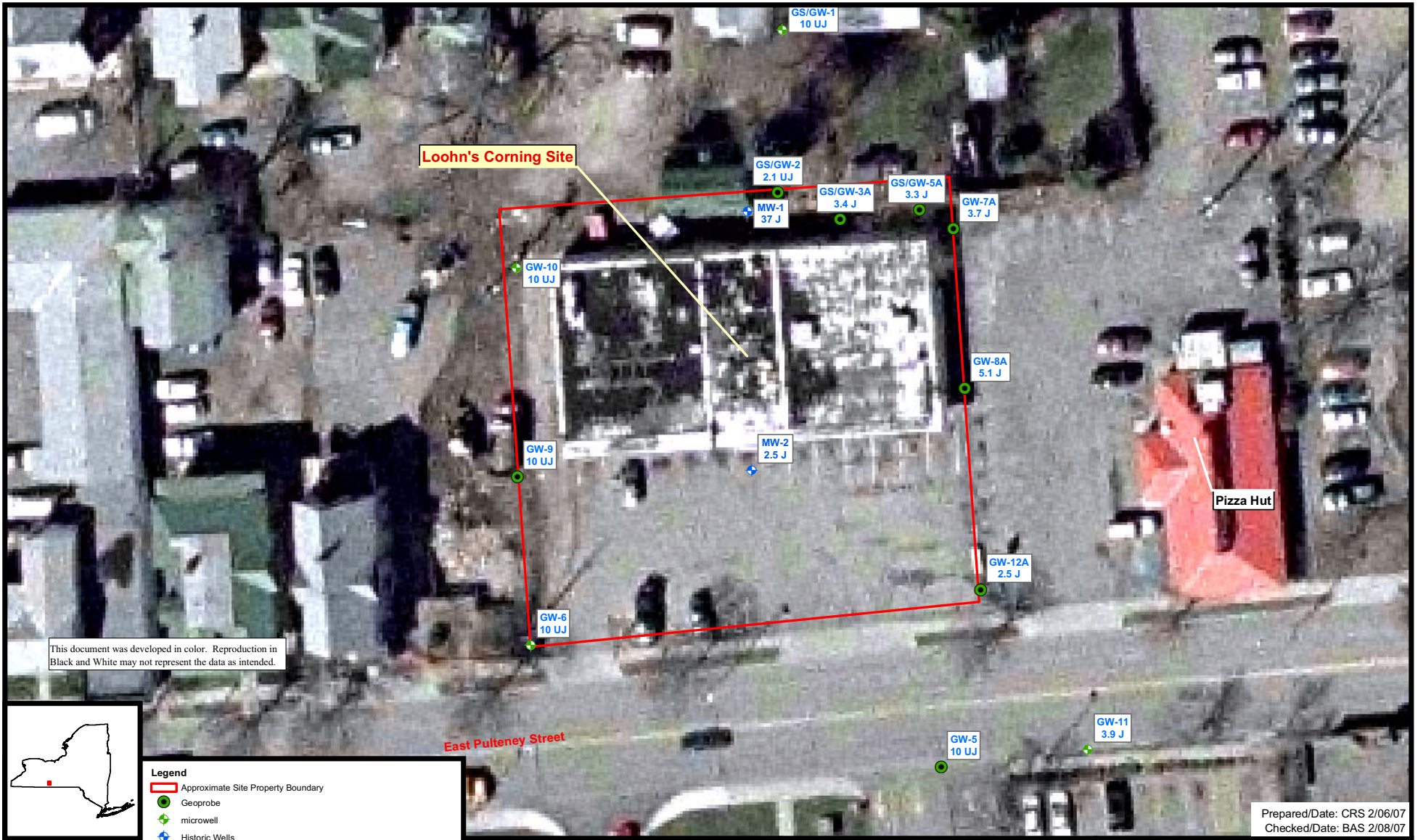


NYSDEC
Loohn's Corning Site
Corning, New York



Site Location
Project 3612052036
Figure 1.1





NYSDEC
Loohn's Corning Site
Corning, New York



PCE Results in Groundwater
Project 3612052036
Figure 4.1

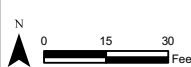


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Legend

- Approximate Site Property Boundary
- Geoprobe
- ⊕ microwell (water level)
- ⊕ Historic Well (water levels)



Notes:
 Water levels collected on 2/16/06 (ft above msl).
 2002 Aerial Photo from NYS GIS Clearinghouse

NYSDEC
 Loohn's Corning Site
 Corning, New York



Prepared/Date: CRS 2/06/07
 Checked/Date: BAS 2/08/07

Groundwater Elevations and Flow Direction
 Project 3612052036 Figure 4.2

APPENDIX A

PREVIOUS INVESTIGATIONS



THE SEAR-BROWN GROUP
FULL-SERVICE DESIGN PROFESSIONALS

85 METRO PARK
ROCHESTER, NEW YORK 14623-2674

716-475-1440 FAX: 716-272-1814

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for Fleet Financial Group Use Only

March 19, 1997

Mr. Ronald Punska
Fleet National Bank
777 Main Street, CT MO H20B
Hartford, Connecticut 06102-5078

RE: Recommendations
Additional Level II Environmental Site Assessment
Loohn's Convenient Plaza
33-35 East Pultney Street
Corning, New York 14830

14301.02

Dear Mr. Punska:

The Sear-Brown Group (Sear-Brown) has performed a Level II Environmental Site Assessment (ESA) at Loohn's Convenient Plaza, located at 33-35 East Pultney in Corning, New York. Based on the results of the Level II ESA, the following site environmental concerns were identified:

- the soil and groundwater investigation identified the presence of tetrachloroethene (PCE), a chlorinated solvent, on the subject property in upgradient and downgradient locations in both soil and groundwater;
- the concentrations of PCE exceed New York State Department of Environmental Conservation (NYSDEC) soil guidance values in the soil samples collected from an area adjacent to the rear door of the dry cleaning shop; and
- the concentrations of PCE exceed NYSDEC groundwater standards in samples collected from monitoring wells installed in the rear of the building and on the downgradient side of the building.

As stated above, detected concentrations of PCE are above NYSDEC soil guidance values and groundwater standards. Since the site is located over a primary groundwater aquifer which provides drinking water, it is likely that the NYSDEC would require that remedial actions be undertaken to protect the aquifer from further degradation.

Although the extent and type of the remediation are unknown at this time, remedial activities would likely include source removal, i.e., removal or treatment of contaminated soils above

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Mr. Ronald Punska

March 19, 1997

Page 2

guidance values, and installation of a remedial system to reduce contaminant concentrations in soil and groundwater to acceptable levels. The preliminary estimate of the volume of significantly impacted soil subject to removal is about 70 tons. The concentrations of PCE in the soils may require treatment by incineration prior to land disposal. Assuming a disposal cost of \$1,200 per ton, the disposal cost for the estimated volume would be about \$84,000.

Typical technologies used to remediate impacted groundwater include air-sparging (AS) system installed in conjunction with a soil vapor extraction (SVE) system. The costs of these system are dependent upon the size of the treatment area and length of operation. Based on the available information, our opinion of the probable costs for installation and operation of an AS/SVE system ranges between \$100,000 and \$150,000. Therefore, implementation of the remedial efforts described above could range between \$184,000 and \$234,000.

In order to refine these potential remedial costs, it is recommended that additional an subsurface investigation be performed, including soil coring, passive soil gas and monitoring well installations. The purpose and objectives of the additional investigation would be to provide additional data to support develop of remedial objectives and evaluation of remedial alternatives. In addition, the results of the investigation could be used to evaluate remediation of the site under a Voluntary Cleanup Agreement with NYSDEC, should Fleet consider pursuing this option.

An additional Phase II subsurface investigation program could be performed for an estimated fee of \$16,500.

Should you have any questions or require further information, I would invite your calls.

Sincerely,



Lawrence R. Keefe

Senior Environmental Engineer

LRK:PHS:glv:14301.02\L0001.doc

c: Helen M. Sahi



THE SEAR-BROWN GROUP
FULL-SERVICE DESIGN PROFESSIONALS

85 METRO PARK
ROCHESTER, NEW YORK 14623-2674

716-475-1440 FAX: 716-272-1814

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March 19, 1997

Mr. Ronald Punska
Fleet National Bank
777 Main Street, CT MO H20B
Hartford, Connecticut 06102-5078

RE: Proposal
Additional Level II Environmental Site Assessment
Loohn's Convenient Plaza
33-35 East Pultney Street
Corning, New York 14830

14301.02

Dear Mr. Punska:

Sear-Brown is pleased to submit this proposal to conduct an additional Level II Environmental Site Assessment (ESA) at Loohn's Convenient Plaza, located at 33-35 East Pultney in Corning, New York (Figure 1). Given the elevated concentrations of PCE in soil and groundwater detected during our Level II ESA, further characterization of this area is recommended.

Project Understanding

Based on Sear-Brown's March 1997 Level II Environmental Site Assessment (ESA) Report of the above referenced property, the following concerns were identified:

- the soil and groundwater investigation identified the presence of tetrachloroethene (PCE), a chlorinated solvent, on the subject property in upgradient and downgradient locations in both soil and groundwater; and
- the concentration of PCE exceeds New York State Department of Environmental Conservation (NYSDEC) soil guidance values and groundwater standards in the area adjacent to the rear door of the dry cleaning shop.

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Mr. Ronald Punska

March 19, 1997

Page 2

Scope of Work

Task 1 - Soil Coring Program

Sear-Brown proposes to conduct a limited soil coring program involving the extraction of 1- inch diameter soil cores in the area along the north and west side of the alley behind the dry cleaners. This soil coring program will be performed to evaluate the lateral extent of the elevated PCE concentrations which were found in soil core locations C-7 and C-8, and boring B-1. Approximately ten cores will be collected along the northern and eastern portion of the alley (Figure 2). The coring program will involve a systematic procedure that allows for the collection and screening of volatile organic vapors from the soil matrix. Cores will be collected with a three ft. stainless steel subsurface soil probe, lined with a three ft. long polyethylene tube, which will be driven into the ground using a rotary hammer. Two soil cores will be collected from each location, allowing the soil to be screened from depths of 0-3 feet and from 3-6 feet. Representative portions of the soil cores will be containerized and allowed to equilibrate to ambient temperatures. Headspace analysis for volatile organic vapors will be performed using a calibrated HNu photoionization detector (PID) equipped with a 10.2 eV lamp.

In addition to headspace screening, the soil core samples will be visually inspected for physical indications of contamination such as staining, oils, odors, fill material, etc. Based on field observations (staining, odor, elevated headspace readings), up to four of the samples will be submitted for laboratory analysis of volatile organic compounds (VOCs) by EPA Method 8260.

Task 2- Passive Soil Gas Investigation

Sear-Brown proposes to conduct a passive soil gas investigation, using EMFLUX Soil-Gas Probes, to define the lateral extent of the PCE plume detected in wells MW-1 and MW-2. Approximately 20 soil gas probes will be installed in shallow (3-inch) small-diameter (3/4-inch) borings at the approximate upgradient and downgradient locations (see Figure 2). Approximately 9 of these gas probes will be installed through the floor of the building. After one week, the soil gas probes will be extracted and analyzed for the presence of PCE and its decay products. The analytical data provided by the passive soil gas investigation will be used to select well locations for confirmatory groundwater testing as described below.

Task 3 - Soil Boring/Groundwater Investigation

To further evaluate the extent of subsurface soil and groundwater contamination on the subject property, Sear-Brown proposes to drill and sample two additional soil borings to

SEAR-BROWN

Mr. Ronald Punska

March 19, 1997

Page 3

approximately 15-20 ft. in depth. Each boring will be completed as a monitoring well in downgradient locations near the vicinity of MW-2. The purpose of installing additional wells is to delineate the direction of the dissolved PCE plume in groundwater. Each existing and proposed well will be surveyed to allow for construction of groundwater flow maps. Prior to performing the soil borings, underground utilities will be located by the Underground Facilities Protection Organization (UFPO).

Field headspace screening of split-spoon samples will be conducted using a calibrated HNu PID to evaluate the potential presence of volatile organic vapors. Based on visual field observations, or odors, one soil sample from each boring will be collected for VOCs using EPA Method 8260. If contamination is encountered, the drill cuttings will be placed into 55-gallon drums and segregated from the clean soil. Contingent on the investigation findings, these drums could possibly require special handling and disposal procedures. The costs to drum, sample, analyze, transport and dispose of affected soils and decontamination water are not included as part of our presently proposed services.

The proposed groundwater monitoring well installations would consist of two additional overburden groundwater monitoring wells to be installed at the downgradient side of the site (Figure 2).

The wells would be drilled using 4-1/4 inch hollow stem augers under the supervision of a qualified geologist or engineer. The groundwater monitoring wells would be constructed of schedule-40 PVC with 10-foot long screens. The wells would be installed such that the screen straddles the water table. Following installation, the wells would be developed to reduce turbidities to the extent practicable.

Groundwater samples would be collected from each of the new and existing wells and would be analyzed for VOCs by EPA Method 8260.

Following installation, the well elevations will be surveyed to allow development of a site wide groundwater contour map. Aquifer testing (slug tests) would be conducted at each newly installed well to estimate the hydraulic conductivity of the screened aquifer. This information, along with groundwater elevation and gradient data, would be used to estimate groundwater flow/contaminant transport rates and to assess potential remedial options.

Task 4 - Reporting

Verbal reports will be provided as the field programs are being conducted as well as when the soil gas, soil and groundwater analytical results are received. A report will then be prepared which incorporates the approach, methods, field findings, lab results, interpretations, conclusions and recommendations for your review and comment. Copies of all pertinent records, including drilling logs and lab reports, will be included in this report.

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Mr. Ronald Punska

March 19, 1997

Page 4

Schedule

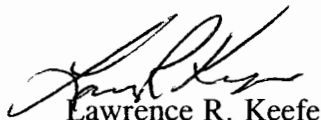
The Additional Level II Environmental Site Assessment field program can be scheduled within approximately two weeks of a notice to proceed. Laboratory turnaround times for soil or groundwater samples are two to three weeks. The draft report can be completed within two weeks of receipt of all necessary information and results. Therefore, the additional Level II activities will take approximately six to seven weeks to complete.

Terms and Conditions

The additional Level II ESA, as described above, will be performed under the terms and conditions of Fleet's MESA for a not-to-exceed cost of \$16,500, including laboratory costs. Please note that costs associated with disposal of drummed wastes, meetings with the DEC, development of remedial plans and actual remedial activities are not included at this time.

We look forward to working with you on this project. Should you have any questions or require further information, I would invite your calls.

Sincerely,



Lawrence R. Keefe

Senior Environmental Engineer

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Attachments

A. Budget Summary Sheet

B. Site Plan

c. Helen Sahi

Fleet Budget Summary Sheet

Record No: 14301.02

Site Address:

Loohn's Convenient Plaza
33-35 East Pultney Street
Corning, New York

Date:

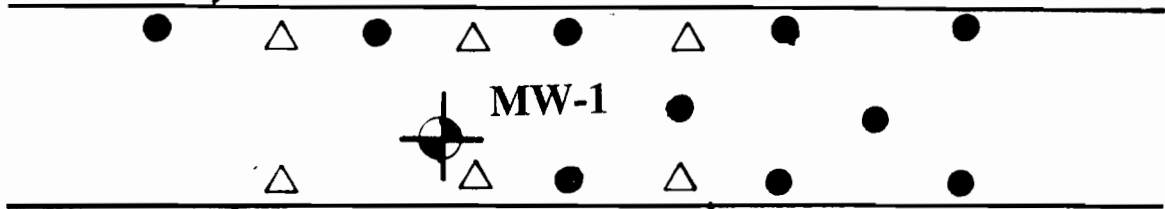
3/19/97

		SCOPE ITEM / TASK												
		1. Soil Coring		2. Soil Gas		3. Well Install.		4. Reporting						
LABOR	CLASS	RATE	HRS.	COST	HRS.	COST	HRS.	COST	HRS.	COST	HRS.	COST	HRS.	COST
	Project Manager	100	2	\$200	2	\$200	2	\$200	4	\$400				
	Project Engineer	95							8					
	Geologist	60	13	\$780	13	\$780	24	\$1,440	40	\$2,400				
	Technician	35	13	\$455	24	\$840								
	Drafter	40							8	\$320				
	Word Processor	35							4	\$140				
	Sub-Total - Labor		28	\$1,435		\$1,820		\$1,640		\$3,260				
DIRECT EXPENSES														
	Travel	\$70				\$490		\$175		\$30				
	Reproduction									\$25				
	Postage & Delivery									\$50				
	Miscellaneous													
	Subtotal - Direct Expenses	\$70				\$490		\$175		\$105				
SUBCONTRACTORS														
	Drilling							\$2,450						
	Geophysics (GPR-1 day)													
	Laboratory*	\$480				\$3,400		\$720						
	Asbestos Laboratory													
	Subtotal - Subcontractors	\$480				\$3,400		\$3,170						
OTHER EXPENSES														
	Equipment Rental	\$155				\$150		\$150						
	Etc.													
	Subtotal - Other Expenses	\$155				\$150		\$150						
	TOTALS		\$2,140		\$5,860		\$5,135		\$3,365					
											TOTAL :	\$16,500		

* Assumes 6 soil and 4 groundwater samples, EPA Method 8260.



Edge of Property



MW-1

Legend

 Existing Well

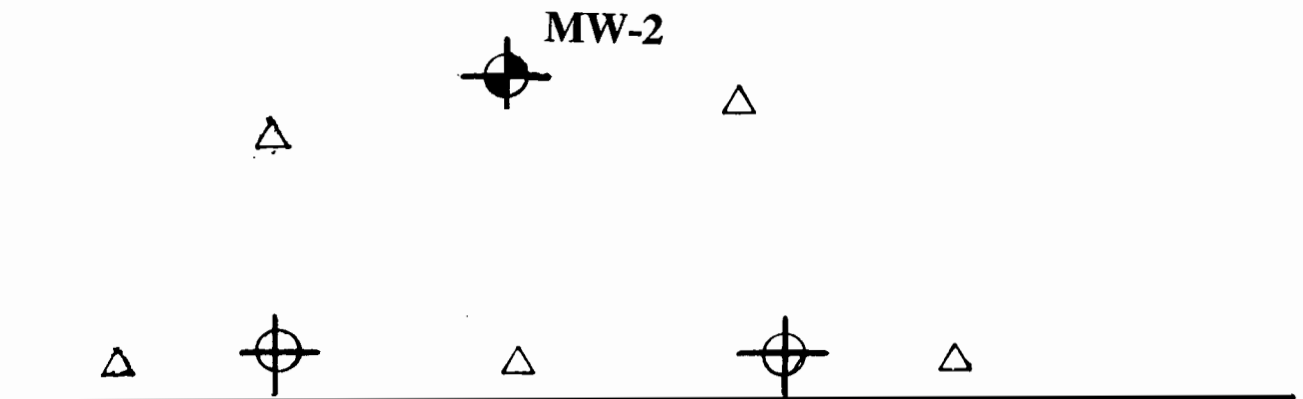
 Proposed Well Location

 Soil Coring Location

 Soil Gas Location

**Loohn's Launderers
and Cleaners, Inc.**

MW-2



Pultney Street



THE SEAR-BROWN GROUP
FULL-SERVICE DESIGN PROFESSIONALS

85 METRO PARK
ROCHESTER NEW YORK 14623

716-475-1440 FAX: 716-272-1814

Figure 2

Loohn's Convenient Plaza
33-35 Pultney Street
Corning, New York

Sampling Locations

Not to Scale

Stantec Consulting Services Inc.
2250 Brighton-Henrietta Town Line Road
Rochester NY 14623-2706
Tel: (585) 475-1440 Fax: (585) 424-5951
stantec.com

NOV 26 2005



Stantec

November 23, 2005

Mr. Doug Harrah
Cadle's Pulteney Street Plaza, Inc.
100 North Center Street
Newton Falls, Ohio 44444

**RE: Groundwater Sampling
33-35 East Pulteney Street
Corning, New York**

Dear Doug:

Pursuant to our contractual agreement, Stantec has conducted Groundwater Sampling at the above referenced property.

Background

Based on Stantec's (formerly Sear-Brown) March 1997 Level II Environmental Site Assessment (ESA) Report of the above referenced property, the following concerns were identified:

- tetrachloroethene (PCE), a chlorinated solvent typically used by dry cleaners, was reported in soil and groundwater sampling locations both to the rear (north) and the front (south) of the Loohn's Cleaners and Launderers; and
- the concentration of PCE exceeded both New York State Department of Environmental Conservation (NYSDEC) soil guidance values in the area adjacent to the rear door of the dry cleaning shop, and groundwater standards both adjacent to the rear, and in front of, the building.

Groundwater sampling was requested to evaluate how the groundwater concentrations in the two previously installed monitoring wells may have changed since the 1997 sampling event.

Groundwater Sampling

On November 1, 2005, Stantec collected two (2) groundwater samples from existing wells MW-1 and MW-2 (Figure 1).

General water quality field parameters (i.e. turbidity, pH, specific conductance and temperature) were monitored during well purging. Field parameters are presented in Table 1.

Mr. Doug Harrah
November 23, 2005
Page 2

Following well purging, one groundwater sample was collected from each of the two existing monitoring wells. The groundwater samples were forwarded to Paradigm Environmental Services, Inc. to be analyzed for:

- Target Compound List (TCL) Volatile Organic Compounds (VOCs) by EPA Method 8260.

Results

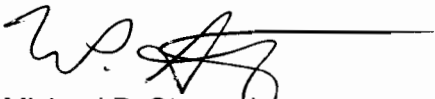
As shown in Table 2, one volatile organic compound, tetrachloroethene (PCE) was reported in MW-1 at a concentration of 41.3 parts per billion (ppb). PCE concentrations in MW-1 represents an approximate 51% reduction from the March 1997 sampling results. No other VOCs were reported above detection limits in MW-1 including acetone, which was previously reported in this well in 1997.

The VOC results from MW-2 were reported to be below detection limits. The October 1997 sampling of MW-2 had reported PCE at 18.7 ppb and a low concentration of toluene.

A copy of the laboratory analytical results are presented in Appendix A.

Should you have any questions or require further information, I would welcome your calls at 585-413-5620.

Very truly yours,



Michael P. Storonsky
Senior Associate

Attachments:

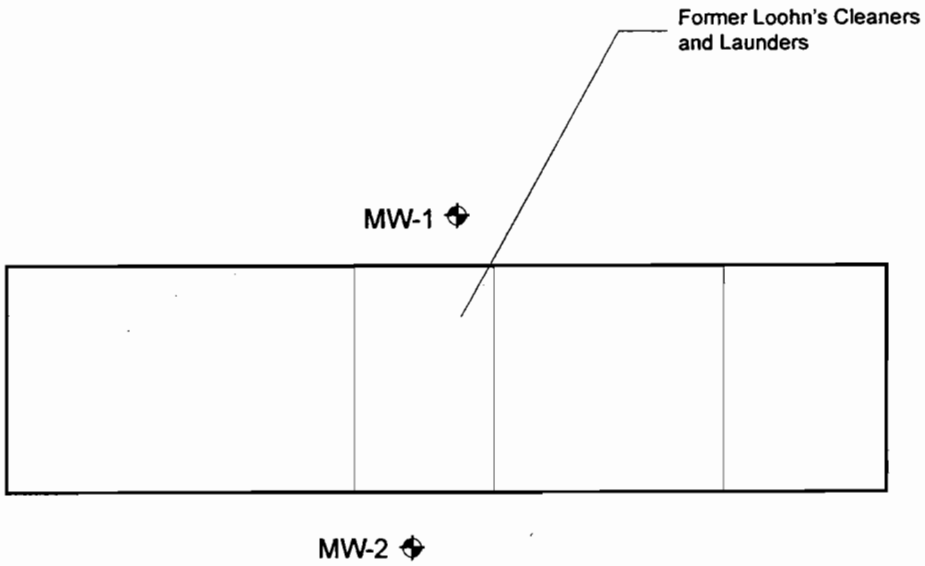
Figure 1 Well Location Map

Table 1 Field Parameter

Table 2 Summary of Detected Volatile Organic Compounds in Groundwater

Appendix A Laboratory Report

FIGURES



East Pultney Street



Stantec

Figure 1

Well Location Map

Loohn's Commercial Plaza

33-35 East Pultney Street
City of Corning, New York

Source: Stantec Field Notes

TABLES

TABLE 1
FIELD PARAMETER SUMMARY

33-35 E. Pultney Street
Corning, NY

Well	Date	Time	Well Volume	pH (Su)	Conductivity (umhos/cm)	Temperature (°C)
MW-1	11/1/05	13:01	1	8.44	445	16.1
		13:06	2	7.85	638	16.1
		13:11	3	7.48	677	15.8
MW-2	11/1/05	12:13	1	6.35	1,671	17.2
		12:18	2	6.73	1,577	17.2
		12:23	3	6.91	1,574	17.5

Notes:

1. Su = standard units.
2. umhos/cm = micromhos per centimeter.
3. (°C) = degrees Celsius.
4. NTU = Nephelometric Turbidity Units.

TABLE 2
SUMMARY OF DETECTED
VOLATILE ORGANIC COMPOUNDS in GROUNDWATER (ug/l)
 33-35 E. Pultney Street
 Corning, NY

DETECTED COMPOUNDS	Mar-97		Oct-05		NYSDEC Class GA Groundwater and Guidance Values Standards ⁽¹⁾
	MW-1	MW-2	MW-1	MW-2	
<u>TCL 8260</u>					
Tetrachloroethene	84.5	18.7	41.3		5
Toluene		2.9			5
Acetone	25.0				5

Notes:

1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Reissued June 1998. April 2000 Addendum.
2. ug/l = all values expressed in micrograms per liter (equivalent to parts per billion).
3. blank space = below detection limits.
4. Sample results which exceed groundwater standard are presented in **Bold**.

APPENDIX A

Volatile Analysis Report for Non-potable Water

 Client: **Stantec**

Client Job Site: Loohn's

Lab Project Number: 05-3716

Lab Sample Number: 12917

Client Job Number: N/A

Field Location: MW-1

Date Sampled: 11/01/2005

Field ID Number: N/A

Date Received: 11/01/2005

Sample Type: Water

Date Analyzed: 11/03/2005

Compound	Results in ug / L
Acetone	ND< 10.0
Benzene	ND< 0.700
Bromochloromethane	ND< 2.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 2.00
Bromomethane	ND< 2.00
2-Butanone	ND< 5.00
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	ND< 2.00
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 2.00
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 2.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	ND< 2.00
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 2.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	41.3
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 2.00
1,2,4-Trichlorobenzene	ND< 2.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

ELAP Number 10958

Method: EPA 8260B

Data File: V32905.D

 Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:



 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

 Client: **Stantec**

Client Job Site: Loohn's

Lab Project Number: 05-3716

Lab Sample Number: 12918

Client Job Number: N/A

Field Location: MW-2

Date Sampled: 11/01/2005

Field ID Number: N/A

Date Received: 11/01/2005

Sample Type: Water

Date Analyzed: 11/03/2005

Compound	Results in ug / L
Acetone	ND< 10.0
Benzene	ND< 0.700
Bromochloromethane	ND< 2.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 2.00
Bromomethane	ND< 2.00
2-Butanone	ND< 5.00
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	ND< 2.00
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 2.00
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 2.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	ND< 2.00
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 2.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 2.00
1,2,4-Trichlorobenzene	ND< 2.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

ELAP Number 10958

Method: EPA 8260B

Data File: V32906.D

 Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT #:	CLIENT PROJECT #:
COMPANY: <i>Stantec</i>	COMPANY: <i>Same</i>	ADDRESS: <i>2750 Brighton Road, Hauppauge, NY</i>		<i>OS-3716</i>	
CITY: <i>Brookville</i>	STATE: <i>NY</i>	ZIP: <i>11703</i>	CITY:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: <i>(516) 5631</i>	FAX: <i>(516) 5951</i>	PHONE:	FAX:	<input type="checkbox"/> 1	<input type="checkbox"/> 2
ATTN: <i>Pete Sued</i>	ATTN:	COMMENTS: <i>Stantec, Temp. 1/11/05</i>		<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 5
PROJECT NAME/SITE NAME: <i>Lochin's</i>				<input type="checkbox"/> 4	<input type="checkbox"/> OTHER
				QUOTE #:	

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINERS	REMARKS	PARADIGM LAB SAMPLE NUMBER
<i>11/1/05</i>	<i>12:00</i>		<input checked="" type="checkbox"/>	<i>MW-1</i>	<i>W</i>	<i>2</i>		<i>12917</i>
<i>11/1/05</i>	<i>3:00</i>		<input checked="" type="checkbox"/>	<i>MW-2</i>	<i>W</i>	<i>2</i>		<i>12918</i>
3								
4								
5								
6								
7								
8								
9								
10								

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type: <i>VOL</i>	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>
Comments: _____		
Preservation:	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>
Comments: _____		
Holding Time:	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>
Comments: _____		
Temperature: <i>4°C</i>	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>
Comments: _____		

<i>Pete Sued</i>	<i>11/1/05</i>	Total Cost: <input type="text"/>
Sampled By	Date/Time	
<i>Pete Sued</i>	<i>11/1/05 16:00</i>	P.I.F. <input type="text"/>
Relinquished By	Date/Time	
<i>[Signature]</i>	<i>11/1/05 16:00</i>	
Received By	Date/Time	
<i>[Signature]</i>	<i>11/1/05 16:00</i>	
Received @ Lab By	Date/Time	

**Phase II Environmental
Site Assessment Report**

**PHASE II ENVIRONMENTAL
SITE ASSESSMENT**

**Former Loohn's Cleaners
formerly 33-35 East Pulteney Street
Corning, New York 14830**

SUBMITTED TO:

Ms. Angela Hickey
104 Front Street
Addison, New York 14801

PREPARED BY:

Teeter Environmental Services, Inc.

A handwritten signature in black ink, appearing to read "David J. Teeter", is written over a horizontal line.

David J. Teeter
President

May 10, 2006

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I. AUTHORIZATION

Teeter Environmental Services, Inc. was authorized by Ms. Angela Hickey to perform a Phase II Environmental Site Assessment (ESA) of the property designated as the former Loohn’s Cleaners currently located at 37 East Pulteney Street (Route 415), Corning, New York, 14830. The address was formerly designated as 33-35 East Pulteney Street. The ESA was completed on April 19, 2006.

II. OBJECTIVE

The objective of the ESA was to determine if soil and groundwater had been impacted with solvent-type hydrocarbons related to prior site usage as a dry cleaning operation. Prior subsurface investigation was completed c. 1997 which purportedly determined that soil and groundwater had been impacted with tetrachloroethene (PCE), a common dry cleaning solvent. Specific data including affected areas, contaminant concentrations, exact sample locations, and complete site history was not available. The premise of this assessment was to reevaluate subsurface conditions to provide documented results for the interested parties.

III. SCOPE OF WORK

The scope of work to complete the ESA is summarized. The amount of soil borings completed and soil and groundwater samples submitted for laboratory analysis were based on field conditions.

- Completed eight (8) soil borings. Seven (7) borings were advanced to a depth of 24 feet below ground surface (bgs), one (1) boring was advanced to four (4) feet bgs, and one (1) boring was advanced to 14 feet bgs using a Geoprobe[®] direct-push soil sampling rig. The borings were near and hydraulically downgradient of the suspected source area.
- Obtained soil samples at continuous four (4) foot intervals, observed each for evidence of solvent impact, characterized lithologically, screened for volatile organic compounds (VOC’s) using an organic vapor meter (OVM), and containerized for potential laboratory analysis.
- Submitted two (2) soil samples for laboratory analysis for volatile aromatic and aliphatic hydrocarbons by EPA Method 5035/8260B.
- Submitted eight (8) groundwater samples for laboratory analysis for volatile aromatic and aliphatic hydrocarbons EPA Method 8260B.
- Prepared the following report of the findings.

IV. SITE DESCRIPTION and HISTORY

The site is considered the boundary of the parcel and all physical features within. The site is and was occupied by more than one business operation located in a multi-unit building including the subject facility, the former Loohn’s Cleaners. The site is nearly square in shape measuring approximately 150 feet north to south on the center line and 147 feet east to west. East Pulteney Street (Route 415) is located to the south. The nearest cross road is Warren Street located across East Pulteney Street to the southeast of the site.

One (1) rectangular structure 126 feet in long by 60 feet wide is located on-site and is divided into four (4) units. The building is one story with exterior construction of cinder block and brick. At the time of the assessment, the addresses and occupants of the units from west to east were: #35 – Coat’s Convenience Store; #37 – Loohn’s Cleaners (subject facility [vacant]), #39 – Tattoorolo (tattoo parlor); #41 - H&R Block tax service. The limited documentation available regarding prior investigation listed the address of the subject facility as 33-35 East Pulteney Street. It is assumed that addresses of the units were subsequently redesignated or the original address was incorrect. The remainder of the site consists of asphalt parking with the exception of a narrow strip of grass and gravel approximately 12 wide behind (north) of the building. The north edge of the strip represents the property line. Three (3) monitoring wells associated with previous subsurface investigation were observed near north, west, and south walls of the building.

Adjacent properties include residences to the north, Pizza Hut to the east, multiple facilities associated with Corning Glass to the south across East Pulteney Street, and Robert’s Salon to the west. It appears from the size of Robert’s Salon that residential units are included in the building.

Refer to Figure 1 in Appendix A for a site map showing the property and building dimensions and the locations of the monitoring wells as measured in the field. Refer to Figure 2 for a map of the general site setting and Figure 3 for an aerial photograph with surrounding properties and streets. Photodocumentation is included in Appendix B.

Site history was not available and the subject facility is currently vacant. All that could be determined from the limited documentation provided prior to the ESA and observations during the ESA was that a dry cleaning facility was located on-site and that the subsurface was impacted with TCE presumably related to the dry cleaning operation. A site map (not to scale) was provided which identified two (2) of the monitoring wells and soil boring locations. The alleged source area of contamination was to the north of building just outside the dry cleaning facility where it was presumed contaminated fluids were discarded to the ground surface.

V. METHODS OF INVESTIGATION

A. Soil Sampling and Analysis

Chambers Environmental Group, Inc., Bellefonte, Pennsylvania was contracted to perform the borings under supervision of David Teeter of Teeter Environmental. The soil borings were completed using a Geoprobe® Model 540UD direct-push soil probing rig. The borings were completed as close to the alleged source area as possible given site conditions and hydraulically downgradient. Soil samples were obtained by advancing a two-inch diameter, 48-inch long hollow steel sampling tube with an acetate liner attached to steel drive rods. The sampler was advanced its entire length (0 to 4 feet), retrieved from the borehole, and the acetate liner containing the soil core was removed. Another sampling tube was then inserted into the open boring, advanced to the bottom of the borehole, and driven from 4 to 8 feet. With the exception of two (2) borings advanced to 4 and 16 feet (sampler refusal), the remaining samples were obtained in this fashion to a depth of 24 feet. All soil samples were observed for petroleum or solvent impact (sheen, discoloration, odor, etc.) and characterized lithologically.

Composite samples from one (1) foot interval in each boring were screened for volatile organic compounds (VOC's), expressed in parts per million (ppm), using a ThermoEnvironmental Model 580B organic vapor meter (OVM). One (1) sample from the saturated zone nearest the alleged source area was submitted to Eastern Laboratory Services Ltd., Sayre, PA (NYS Laboratory ID #11216) for analysis for volatile aromatic and aliphatic hydrocarbons by EPA Method 8260B.

Refer to Figure 1 in Appendix A for soil boring locations.

B. Groundwater Sampling and Analysis

Groundwater was obtained from temporary small diameter PVC wells installed in borings B1, B2, B3, B4, and B8 and from existing monitoring wells designated in the field as MW1, MW2, and MW3. Samples were collected by inserting 3/8-inch tubing connected to a Geopump® low flow pump. Groundwater was pumped out of the wells for a short period of time to reduce turbidity. Samples were then containerized in 40-milliliter zero-headspace vials preserved with hydrochloric acid and packed in an ice-filled cooler. The samples were delivered to Eastern Laboratory Services Ltd. (NYS Laboratory ID #11216), Sayre, PA for analysis for volatile aromatic and aliphatic hydrocarbons by EPA Method 8260B.

VI. RESULTS

A. General Hydrogeology

The site lies at an approximate elevation of 934 feet above mean sea level (benchmark on corner of East Pulteney and Baker Streets.

The topography in the immediate area is virtually flat as the site lies within the floodplain of the Chemung River located approximately 1,400 feet to the south.

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Native surficial geology to a depth of 24 feet based on the soil borings generally consists of brown and gray subrounded to subangular sandy and silty gravel and gravelly silt. There were occasional lenses of nearly pure silt or fine sand. The predominantly gravel soils were typically moderately cemented and the soils with higher sand and silt fractions were mostly medium dense where the soils would crumble with light to moderate finger pressure. Native soils were encountered throughout the site with the exception of the area near adjacent borings B5 and B6 where imported soil fill material was evident. Some concrete and brick fragments were observed. The native soils represent either glacial outwash, alluvium (river deposits), or both. The roundness of most of the coarser fractions and the relative lack of finer particles indicates a dynamic hydraulic depositional environment with running water shaping and transporting the particles. The angularity of some coarse particles may indicate reworking of the grains.

Depth to groundwater was approximately 19 feet below ground surface based on the moisture content of the soil. Depth to groundwater in the three existing monitoring wells was approximately 17 feet below ground surface, ranging from 17.02 to 17.10 feet. The water level in the wells represents the actual water table. Well surveying was not included in the scope of work as it was unknown that three wells were located on-site, therefore, direction of groundwater flow and groundwater gradient were not determined. Most groundwater regimes near a significant surface body of flowing water will flow toward the surface body. The Chemung River is located to the south of the site and groundwater almost certainly flows directly toward it (south) or with a possible eastern component (southeast) as the river flows to the east. Although the well casings were not surveyed, the site is flat and the casings were trimmed about the same depth below grade. The similar water levels in the wells suggest a nearly “flat” water table with a slight gradient.

Bedrock was not encountered during the ESA to the maximum boring depth of 24 feet. According to the Geologic Map of New York: Finger Lakes Sheet (Rickard and Fisher, 1970), bedrock in the immediate area of the site likely consists of the Gardeau formation shales and siltstones of the West Falls Group deposited in the Upper Devonian Period approximately 360 million years ago. Bedrock outcrops in the hills surrounding the site.

Refer to Appendix C for subsurface logs containing lithologic characterization for each soil sample interval and Figure 4 in Appendix A for a topographic map of the vicinity.

B. Soil Quality

Borings were advanced with the objective of encountering groundwater to characterize soil in both the unsaturated and saturated zones and to obtain groundwater samples.

Borings B1-B3 were located as close to the suspected source area behind the former dry cleaning facility as conditions would permit. As photograph #1 in Appendix B indicates, the strip behind the building was narrow and there were many obstructions

**Phase II ESA – Former Loohn’s Cleaners
 formerly 33-35 E. Pulteney Street, Corning, NY
 May 10, 2006**

such as a shed, trees, and a permanent air conditioning unit which prevented complete access with the truck-mounted sampling unit. Samples obtained to a depth of 24 feet in each boring did not exhibit any evidence of solvent impact such as free product, odor, sheen, or discoloration. All OVM readings were zero (0) parts per million indicating that VOC’s were most likely not present.

Borings B4-B8 were completed in the front (south) of the building to characterize the condition of the soil and secure groundwater samples hydraulically downgradient of the suspected source area. Boring B5 could only be advanced to 4 feet where the subsurface could no longer be penetrated. B6 was attempted one foot removed from B5 and was advanced to 14 feet with sampler refusal at that depth. It was determined based on the presence of small concrete and brick fragments in the gravel, sand, and silt matrix that non-native fill material was located in that area. It is probable that larger impenetrable fragments of concrete or other material were included in the fill. There was no evidence of solvent impact in the samples retrieved from these borings. Borings B4, B7, and B8 were successfully completed to a depth of 24 feet. No evidence of solvent impact was exhibited in any soil samples from these boring.

Soil sampling intervals, OVM readings, and general observations are summarized in Table 1.

Table 1

Field Data

April 19, 2006

Boring ID	Sampling Interval (feet)	OVM Reading (ppm)	Observations
B1	0-4	0	No observed impact
	4-8	0	No observed impact
	8-12	0	No observed impact
	12-16	0	No observed impact
	16-20	0	No observed impact
	20-24	0	No observed impact
B2	0-4	0	No observed impact
	4-8	0	No observed impact
	8-12	0	No observed impact
	12-16	0	No observed impact
	16-20	0	No observed impact
	20-24	0	No observed impact
B3	0-4	0	No observed impact
	4-8	0	No observed impact
	8-12	0	No observed impact
	12-16	0	No observed impact
	16-20	0	No observed impact
	20-24	0	No observed impact

Table 1 (cont'd)

Field Data

April 19, 2006

Boring ID	Sampling Interval (feet)	OVM Reading (ppm)	Observations
B4	0-4	0	No observed impact
	4-8	0	No observed impact
	8-12	0	No observed impact
	12-16	0	No observed impact
	16-20	0	No observed impact
	20-24	0	No observed impact
B5	0-4 (refusal)	0	No observed impact
B6	0-4	0	No observed impact
	4-8	0	No observed impact
	8-12	0	No observed impact
	12-14 (refusal)	0	No observed impact
B7	0-4	0	No observed impact
	4-8	0	No observed impact
	8-12	0	No observed impact
	12-16	0	No observed impact
	16-20	0	No observed impact
	20-24	0	No observed impact
	B8	0-4	0
4-8		0	No observed impact
8-12		0	No observed impact
12-16		0	No observed impact
16-20		0	No observed impact
20-24		0	No observed impact

A composite sample containing unsaturated and saturated soil from the 16 to 20 foot interval in boring B3 located nearest the suspected source area was submitted for laboratory analysis. The sample interval was selected to determine if contaminants had migrated vertically through the soil column and laterally through the groundwater. No compounds included in the analytical method were detected above the reporting limit of 12.0 micrograms per kilogram ($\mu\text{g}/\text{kg}$). Because there was no physical evidence of impact in the remaining samples from B3 or any of the other borings and the OVM readings were 0 ppm, additional laboratory analysis of soil was considered unnecessary. Chlorinated hydrocarbons such as PCE and its most common degradation products, trichloroethene (TCE), 1,2-dichloroethene (DCE), and vinyl chloride, do not easily sorb (adhere) to soil particles and tend to migrate vertically until groundwater is encountered.

For reference, the analytical results and cleanup guidelines are summarized in Table 2. The cleanup guidance values are based on the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum #4046 (TAGM 4046) dated January 24, 1994.

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The analytical method includes over 60 volatile aromatic and aliphatic hydrocarbons. Only PCE, the primary contaminant of concern, and its common degradation products are included in the table. PCE will naturally degrade through chemical and biological process into compounds which contain fewer chlorine atoms and are often found as byproducts of PCE releases, particularly over time.

Table 2

**Laboratory Analytical Summary
Volatile Hydrocarbons in Soil
by EPA Method 8260B (selected compounds only)**

April 19, 2006

Compound	B3 16'-20'	NYSDEC Guideline*
Tetrachloroethene (PCE)	ND<12.0	1,400
Trichloroethene (TCE)	ND<12.0	700
1,2-Dichloroethene (DCE)	ND<12.0	300
Vinyl Chloride	ND<12.0	120

Common dry cleaning solvent (PCE) and degradation products included in table

Reported as micrograms per kilogram ($\mu\text{g}/\text{kg}$)

ND – Not detected above the indicated reporting limit

*Cleanup guidelines per NYSDEC TAGM 4046

A copy of the complete laboratory report with all target compounds is included in Appendix D.

C. Groundwater Quality

Chlorinated hydrocarbons are highly mobile in groundwater and considerable attention was given to characterization of groundwater quality. Eight (8) groundwater samples were analyzed to determine the areal extent of the plume the best degree possible given site conditions.

The suspected source area according to the limited documentation available was to the north of the building just outside the dry cleaning facility where it was believed waste product may have been discharged to the ground surface. Borings could not be advanced directly behind the facility or to the east of the suspected source due to obstructions. B1-B3 were advanced to the west of the suspected source and groundwater samples from each were analyzed. The rationale was to ascertain whether contaminants had migrated laterally. Lateral migration (dispersion) in water tables with a slight gradient can be pronounced. The actual location and extent of the source area is also unknown and product may have been discharged at any point behind the facility.

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Borings B4-B8 were located hydraulically downgradient of the suspected source area. Groundwater was not encountered in B5 and B6 because the subsurface could not be penetrated beyond a depth of 14 feet. Depth to groundwater was approximately 17 feet. Groundwater was encountered in B7, but a sample could not be obtained because the borehole collapsed before a temporary well could be installed. Samples were obtained from B4 and B8, the boring farthest downgradient. Samples from the three existing monitoring wells designated MW1-MW3 were also submitted for laboratory analysis.

Of the eight (8) samples analyzed, PCE was detected in only two (2) samples at concentrations slightly exceeding regulatory standards. 29.8 micrograms per liter ($\mu\text{g/l}$) PCE was detected in the sample from MW1 and 8.80 $\mu\text{g/l}$ was detected in the sample from B8. The standard for PCE is 5 $\mu\text{g/l}$. Although B8 is the point farthest downgradient, PCE was not detected in samples from MW1 and B4 located upgradient of B8. None of the common degradation products

The analytical results and regulatory standards are summarized in Table 3. The analytical method includes over 60 volatile aromatic and aliphatic hydrocarbons. PCE and its common degradation products are included in the table. Refer to Appendix D for a copy of the laboratory report which lists all compounds included in the analytical method.

Table 3

**Laboratory Analytical Summary
Volatile Hydrocarbons in Groundwater
by EPA Method 8260B (NYSDEC STARS compounds only)**

April 19, 2006

Compound	B1	B2	B3	B4	B8	MW1	MW2	MW3	NYSDEC Standard
Tetrachloroethene (PCE)	ND	ND	ND	ND	8.80	29.8	ND	ND	5
Trichloroethene (TCE)	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethene (DCE)	ND	ND	ND	ND	ND	ND	ND	ND	5
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	2

Common dry cleaning solvent PCE and degradation products included in table

Reported as micrograms per liter ($\mu\text{g/l}$)

ND – Not detected above the indicated reporting limit of 5.00 $\mu\text{g/l}$

The reporting limit of 5.00 $\mu\text{g/l}$ is higher than the standard of 2 $\mu\text{g/l}$ for vinyl chloride. It is highly unlikely that vinyl chloride is present since PCE will degrade progressively from TCE to vinyl chloride. No TCE was detected.

VII. SUMMARY and CONCLUSIONS

Teeter Environmental Services Inc. performed a Phase II Environmental Site Assessment of the former Loohn’s Cleaners located at 37 East Pulteney Street (formerly 33-35 East Pulteney Street), Corning, New York 14830 . The following summarizes the results of the assessment:

- Limited documentation available indicated that a dry cleaning facility was formerly located on the site and that soil and groundwater had been impacted with tetrachloroethene (PCE). It was believed waste solvent related to the dry cleaning operation was released to the ground surface behind (north) of the building outside the dry cleaning facility. Comprehensive site history and the magnitude and extent of impact were not provided.
- The site is nearly square measuring approximately 150 feet from north to south on the center line and 147 feet west to east. East Pulteney Street (Route 415) bounds the site to the south. One building is located on-site and contains four (4) units including the former Loohn’s Cleaners (currently vacant). Current occupants of the building include Coat’s Convenience Store and H&R Block tax service. The remainder of the site is paved with asphalt with the exception of a narrow strip of grass and gravel to the north of the building.
- Adjacent properties include residences to the north, Pizza Hut to the east, Corning Glass facilities to the south across East Pulteney Street, and Robert’s Salon/residences to the west.
- Three (3) small diameter groundwater monitoring wells (designated in the field as MW1-MW3) from previous subsurface investigation are located on-site.
- Eight (8) soil borings (B1-B8) were completed: six (6) to a depth of 24 feet, one (1) to a depth of 4 feet, and one (1) to a depth of 12 feet. Sampler refusal occurred in the latter two borings. The borings were located as close to the suspected source area as possible given site conditions (obstructions) and hydraulically downgradient of the source area. Soil samples were obtained at continuous four (4) foot interval.
- Surficial geology generally consists of silty sandy gravel and gravelly silt. Depth to groundwater is approximately 17 feet below ground surface and likely flows toward Chemung River located approximately 1,400 feet to the south. Bedrock was not encountered.
- No evidence of solvent impact such as free product, odor, discoloration, or sheen was observed in any soil sample. Organic vapor meter (OVM) readings did not exceed the background level of zero (0) parts per million. One (1) sample from the boring nearest the suspected source area was submitted for laboratory analysis. No volatile hydrocarbons were detected.

- Eight (8) groundwater samples were submitted for laboratory analysis. 29.8 µg/l PCE was detected in a sample from MW1 likely located within the suspected source area and 8.80 µg/l in a sample from B8 located furthest downgradient of the suspected source area. The regulatory standard is 5 µg/l. No other hydrocarbons were detected.

It is concluded that no significant contamination is present at the subject site as any contaminants identified were detected at very low levels and no significant receptors were identified. Further it is apparent from field observations, field screening, and laboratory analysis that soil has not impacted with contaminants of concern (COC’s) near and downgradient of the suspected source area. Groundwater has been minimally impacted with PCE at concentrations slightly exceeding the groundwater standard at only two sample points including near or within the suspected source area (MW1) and farthest downgradient (B8). The lower concentration was in the downgradient point and COC’s were not detected in samples obtained between MW1 and B8. It appears that releases to the subsurface may have minimal in magnitude and/or the contaminant plume has undergone significant natural attenuation. Although the regulatory standard for PCE has been slightly contravened, it is the opinion of Teeter Environmental that subsurface remediation is unwarranted. It is unlikely the condition will worsen since no perpetual source of contamination was identified, nor is any such source apparent. Soil sampling may not have been completed within the suspected source area, however the low concentrations of PCE in groundwater and the low sorbency of PCE to soil particles suggest that soil is not impacted. The risk to human health and wildlife is minimal and the contamination in groundwater should eventually attenuate to undetectable levels or below standards. Moreover it appears that the area is served by public water so that any minimal impacts to groundwater should not present a concern.

The conclusions are based only on the investigation performed by Teeter Environmental. It is understood that NYSDEC is in possession of additional data which may affect complete site characterization. Any information will be accessible under the Freedom of Information Law. It is recommended that given the trace levels disclosed and the apparent lack of any receptors of concern that no additional investigation or remediation is appropriate and the site should not be listed by NYSDEC. Should NYSDEC have any data significantly affecting the findings of this ESA, the concerns will be documented in NYSDEC’s response.

VIII. LIMITATIONS

This report is based on a limited number of soil and groundwater samples and chemical analyses. The conclusions presented in this report are based only on the observations made during this investigation. The report presents a description of the subsurface conditions observed at each boring location during this investigation. Conclusions and recommendations set forth are applicable only to the facts and conditions at the time of this investigation. In performing professional services, Teeter Environmental uses the degree of care and skill exercised under similar circumstances by members of the environmental profession practicing in the same or similar locality under similar conditions. The standard of care shall be judged exclusively as of the time these services

*Phase II ESA – Former Loohn’s Cleaners
formerly 33-35 E. Pulteney Street, Corning, NY
May 10, 2006*

are rendered and not according to later standards. Teeter Environmental makes no express or implied warranty beyond its conformance to this standard.

Teeter Environmental shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed for this report. Teeter Environmental believes that all information contained in this report is factual, however no guarantee is made or implied.

APPENDIX A

FIGURES

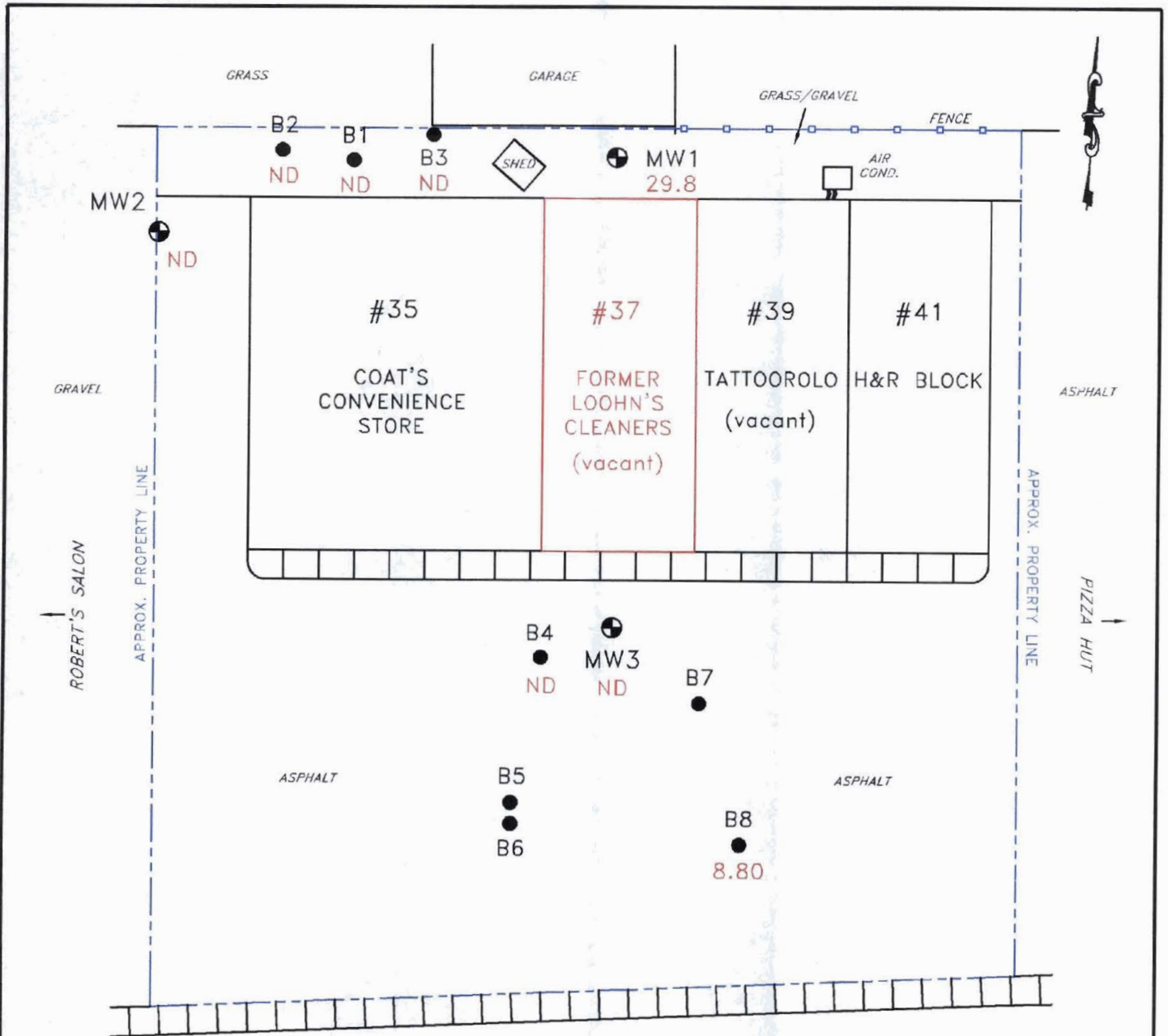
Figure 1: Site Map with Soil Boring Locations

Figure 2: Area Map

Figure 3: Aerial View

Figure 4: Topographic Setting

RESIDENCES



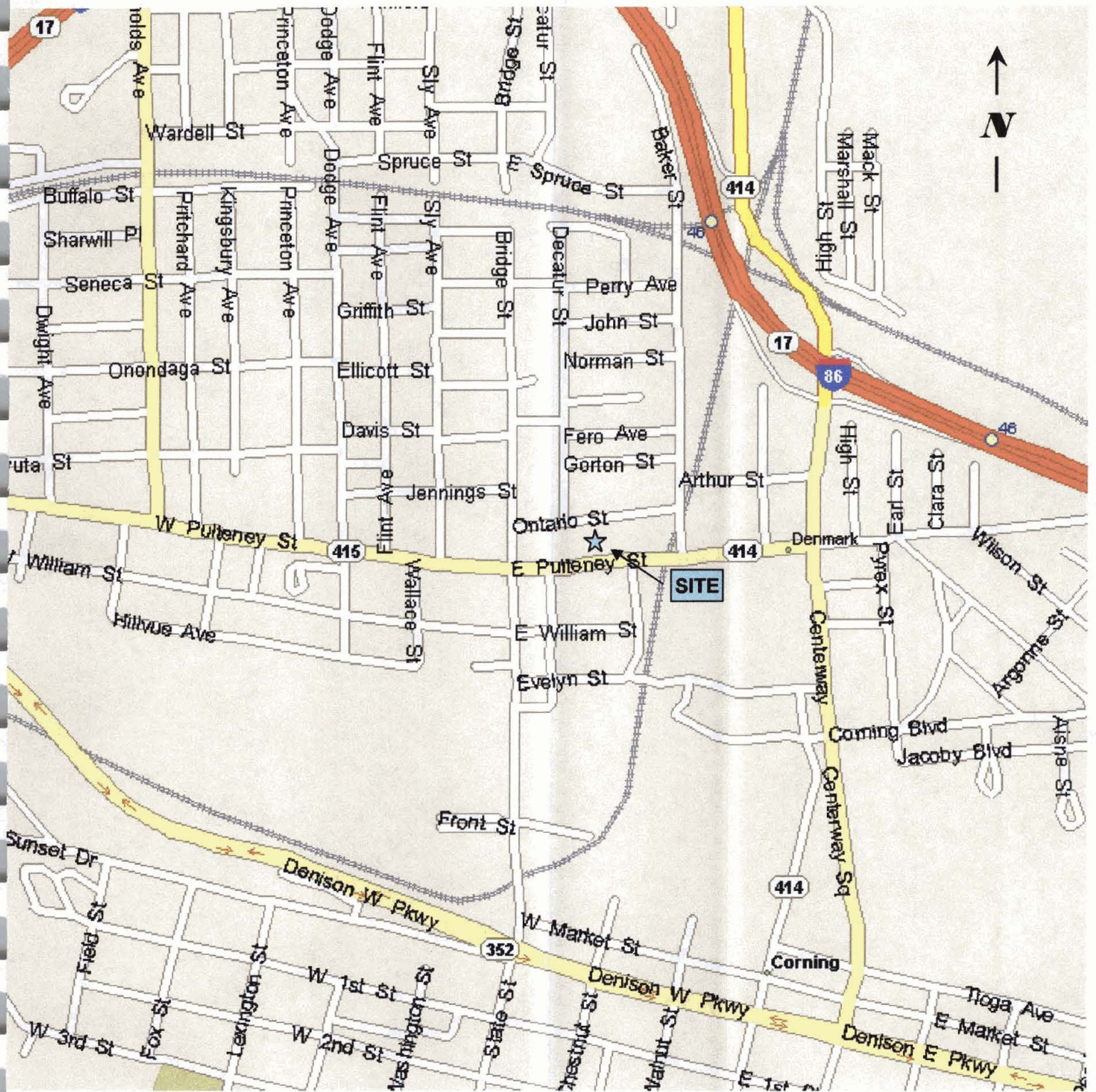
EAST PULTENEY STREET (RTE. 415)

LEGEND:

- Soil Boring
- ⊕ Existing Monitoring Well
- Tetrachlorethene (PCE) ug/l by EPA Method 8260B
- ND Not Detected

CORNING GLASS

SCALE 1" = 25'			FORMER LOOHN'S CLEANERS formerly 33-35 E. PULTENEY STREET CORNING, NY 14830 prepared for: MS. ANGELA HICKEY 104 FRONT STREET ADDISON, NY 14801	Figure 1 SITE MAP May 10, 2006
DRAWN BY	C. Treese	5/8/06		
CHECKED BY	D. Teeter	5/8/06		
REVISED BY	C. Treese	5/8/06		
APPROVED BY	D. Teeter	5/8/06		



Phase II Environmental Site Assessment

Former Lohn's Cleaners
 formerly 33-35 E. Pulteney Street
 Corning, New York 14830

May 10, 2006

Figure 2
 AREA MAP
 1 in = 1,040 ft (0.2 mi)

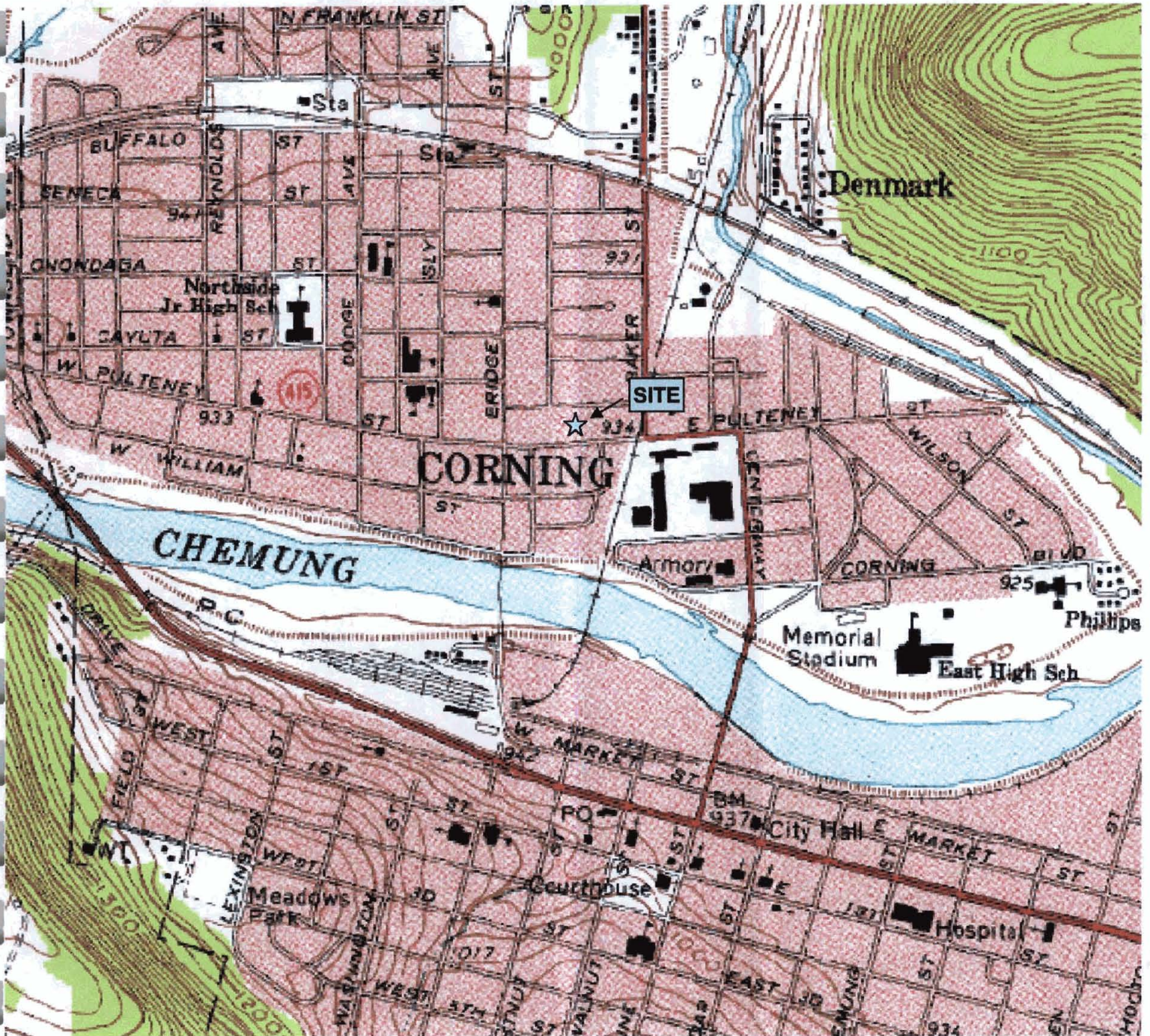


Phase II Environmental Site Assessment

Former Loohn's Cleaners
formerly 33-35 E. Pulteney Street
Corning, New York 14830
May 10, 2006

Figure 3
AERIAL VIEW
April 15, 1995
1 in = 250 ft

Adapted from USGS Series Topographic
Corning Quadrangle
1976



Phase II Environmental Site Assessment

Former Loohn's Cleaners
formerly 33-35 E. Pulteney Street
Corning, New York 14830

May 10, 2006

Figure 4
TOPOGRAPHIC
SETTING
1 in = 1,390 ft

*Phase II ESA – Former Loohn’s Cleaners
formerly 33-35 E. Pulteney Street, Corning, NY
May 10, 2006*

APPENDIX B
PHOTODOCUMENTATION



Phase II Environmental Site Assessment

Former Loohn's Cleaners
formerly 33-35 E. Pulteney Street
Corning, New York 14830

May 10, 2006

#1: North (rear) of building



Phase II Environmental Site Assessment

Former Loohn's Cleaners
formerly 33-35 E. Pulteney Street
Corning, New York 14830

May 10, 2006

#2: South (front) of building



Phase II Environmental Site Assessment

Former Loohn's Cleaners
formerly 33-35 E. Pulteney Street
Corning, New York 14830

May 10, 2006

#3: View to the west



Phase II Environmental Site Assessment

Former Loohn's Cleaners
formerly 33-35 E. Pulteney Street
Corning, New York 14830

May 10, 2006

#4: View to the south



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*Former Lahn's Cleaners
formerly 33-35 E. Pulteney Street
Corning, New York 14830*

May 10, 2006

#5: View to the east



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Former Lohm's Cleaners
formerly 33-35 E. Pulteney Street
Corning, New York 14830

May 10, 2006

#6: View to the north

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formerly 33-35 E. Pulteney Street, Corning, NY
May 10, 2006*

APPENDIX C
SUBSURFACE LOGS

PROJECT & LOCATION: Former Loohn's Cleaners, formerly 33-35 East Pulteney Street, Corning, New York, 14801
 CLIENT: Ms. Angela Hickey, 104 Front Street, Addison, New York 14830 WELL/BORING ID: **B1**
 START DATE: April 19, 2006 COMPLETION DATE: April 19, 2006 RECORDED BY: David Teeter
 GROUNDWATER DEPTH WHILE DRILLING: ~19 ft GROUNDWATER DEPTH AFTER COMPLETION: NA
 WEATHER CONDITIONS: sunny, 45° DRILLING CONTRACTOR: Chambers Environmental Group
 DRILL RIG: Geoprobe® 540UD DRILL SIZE & TYPE: 2" OD drive point DRILLER NAME(S): Keith Skow

Sample No.	OVM Reading (ppm)	Sample Interval (feet)	Sampler Type*	Recovery (inches)	Material Classification		
					trace - 1-10%	little - 11-20%	some - 21-35% and - 36-50%
					f-fine	m-medium	c-coarse
1	0	0-4	MC	13	2" topsoil → 4" lt brown loose subangular fmc GRAVEL and rounded c SAND some SILT → 7" dk brown medium loose SILT some rounded f GRAVEL and c SAND. Moist. No unusual odor.		
2	0	4-8	MC	0	(no recovery)		
3	0	8-12	MC	43	3" brown medium dense SILT little rounded f GRAVEL → 18" gray angular fmc GRAVEL some SILT → 22" gray subangular GRAVEL little subrounded m GRAVEL (fill?). Moist. No unusual odor.		
4	0	12-16	MC	16	brown dense SILT some rounded f GRAVEL and c SAND. Moist. No unusual odor.		
5	0	16-20	MC	27	brown subrounded to angular fmc GRAVEL some c SAND and SILT. Moist to wet at ~19 feet. No unusual odor.		
6	0	20-24	MC	34	similar soils. Wet. No unusual odor.		
					Boring terminated at 24 feet below ground surface.		

NOTES Groundwater sample submitted for laboratory analysis.

*MC - GEOPROBE MACROCORE SS - SPLIT SPOON DPSS - DIRECT PUSH SPLIT SPOON SH - SHELBY TUBE C - BEDROCK CORE

PROJECT & LOCATION: Former Loohn's Cleaners, formerly 33-35 East Pulteney Street, Corning, New York, 14801
 CLIENT: Ms. Angela Hickey, 104 Front Street, Addison, New York 14830 WELL/BORING ID: **B2**
 START DATE: April 19, 2006 COMPLETION DATE: April 19, 2006 RECORDED BY: David Teeter
 GROUNDWATER DEPTH WHILE DRILLING: ~19 ft GROUNDWATER DEPTH AFTER COMPLETION: NA
 WEATHER CONDITIONS: sunny, 56° DRILLING CONTRACTOR: Chambers Environmental Group
 DRILL RIG: Geoprobe® 540UD DRILL SIZE & TYPE: 2" OD drive point DRILLER NAME(S): Keith Skow

Sample No.	OVM Reading (ppm)	Sample Interval (feet)	Sampler Type*	Recovery (inches)	Material Classification			
					trace - 1-10%	little - 11-20%	some - 21-35%	and - 36-50%
					f-fine	m-medium	c-coarse	
1	0	0-4	MC	14	14" dk brown SILT and subrounded to angular moderately cemented fm GRAVEL and c SAND. Moist. No unusual odor.			
2	0	4-8	MC	24	similar soils. Brown. Moist. No unusual odor.			
3	0	8-12	MC	42	33" brown subrounded to subangular moderately cemented fmc GRAVEL some SILT little fmc SAND → 9" gray loosely cemented subrounded to subangular fmc GRAVEL. Moist. No unusual odor.			
4	0	12-16	MC	48	20" brown medium dense SILT and subrounded fm GRAVEL little c SAND → 24" lt gray rounded to subrounded moderately cemented fmc GRAVEL little c SAND and SILT. Moist. No unusual odor.			
5	0	16-20	MC	28	brown moderately cemented subrounded fmc GRAVEL and SILT little rounded fmc SAND. Moist to wet at ~19 feet. No unusual odor.			
6	0	20-24	MC	12	similar soils. Wet. No unusual odor.			
					Boring terminated at 24 feet below ground surface.			

NOTES Groundwater sample submitted for laboratory analysis.

*MC - GEOPROBE MACROCORE SS - SPLIT SPOON DPSS - DIRECT PUSH SPLIT SPOON SH - SHELBY TUBE C - BEDROCK CORE

PROJECT & LOCATION: Former Loohn's Cleaners, formerly 33-35 East Pulteney Street, Corning, New York, 14801

CLIENT: Ms. Angela Hickey, 104 Front Street, Addison, New York 14830 WELL/BORING ID: **B3**

START DATE: April 19, 2006 COMPLETION DATE: April 19, 2006 RECORDED BY: David Teeter

GROUNDWATER DEPTH WHILE DRILLING: ~19 ft GROUNDWATER DEPTH AFTER COMPLETION: NA

WEATHER CONDITIONS: sunny, 65° DRILLING CONTRACTOR: Chambers Environmental Group

DRILL RIG: Geoprobe® 540UD DRILL SIZE & TYPE: 2" OD drive point DRILLER NAME(S): Keith Skow

Sample No.	OVM Reading (ppm)	Sample Interval (feet)	Sampler Type*	Recovery (inches)	Material Classification
					trace – 1-10% little – 11-20% some – 21-35% and – 36-50%
					f-fine m-medium c-coarse
1	0	0-4	MC	16	2' dk brown topsoil → 14" tan medium dense CLAYEY SILT some rounded c SAND and fm GRAVEL. Moist. No unusual odor.
2	0	4-8	MC	30	9" similar soils → 21" gray loosely cemented subrounded to angular fmc GRAVEL little SILT. Moist. No unusual odor.
3	0	8-12	MC	48	gray rounded to subrounded moderately cemented fmc GRAVEL some brown SILT little fmc SAND. Moist. No unusual odor.
4	0	12-16	MC	40	11" similar soils → 3" gray moderately cemented subangular c SAND and f GRAVEL → 26" brown moderately cemented subrounded some subangular fmc GRAVEL and SILT little fmc SAND. Moist. No unusual odor.
5	0	16-20	MC	39	17" brown medium loose subrounded c SAND and fm GRAVEL some SILT. Moist to wet at ~19 feet. No unusual odor.
6	0	20-24	MC	36	gray moderately cemented subrounded GRAVEL some brown SILT little subrounded fmc SAND. Wet. No unusual odor.
					Boring terminated at 24 feet below ground surface.

NOTES Groundwater sample submitted for laboratory analysis. Soil sample #5 submitted for laboratory analysis.

*MC – GEOPROBE MACROCORE SS – SPLIT SPOON DPSS – DIRECT PUSH SPLIT SPOON SH – SHELBY TUBE C – BEDROCK CORE

PROJECT & LOCATION: Former Loohn's Cleaners, formerly 33-35 East Pulteney Street, Corning, New York, 14801
 CLIENT: Ms. Angela Hickey, 104 Front Street, Addison, New York 14830 WELL/BORING ID: **B4**
 START DATE: April 19, 2006 COMPLETION DATE: April 19, 2006 RECORDED BY: David Teeter
 GROUNDWATER DEPTH WHILE DRILLING: ~19 ft GROUNDWATER DEPTH AFTER COMPLETION: NA
 WEATHER CONDITIONS: sunny, 70° DRILLING CONTRACTOR: Chambers Environmental Group
 DRILL RIG: Geoprobe® 540UD DRILL SIZE & TYPE: 2" OD drive point DRILLER NAME(S): Keith Skow

Sample No.	OVM Reading (ppm)	Sample Interval (feet)	Sampler Type*	Recovery (inches)	Material Classification
					trace – 1-10% little – 11-20% some – 21-35% and – 36-50% f-fine m-medium c-coarse
1	0	0-4	MC	28	16" brown medium dense SILT and f SAND some subrounded mc SAND little subrounded fm GRAVEL. Moist. No unusual odor.
2	0	4-8	MC	4	9" similar soils. Moist. No unusual odor.
3	0	8-12	MC	34	12" brown medium loose f SAND some subrounded fm GRAVEL trace c GRAVEL → 22" gray moderately cemented subrounded to subangular fmc GRAVEL and c SAND. Moist. No unusual odor.
4	0	12-16	MC	38	brown loosely cemented subrounded some subangular fm GRAVEL and c SAND little fm SAND and SILT. Moist. No unusual odor.
5	0	16-20	MC	48	29" brown medium dense and subangular little subrounded fm GRAVEL little SILT → 19" similar soils, gray. Moist to wet at ~19 feet. No unusual odor.
6	0	20-24	MC	48	It brown moderately cemented rounded to subrounded fmc GRAVEL and fmc SAND little SILT. Wet. No unusual odor.
					Boring terminated at 24 feet below ground surface.

NOTES Groundwater sample submitted for laboratory analysis.

*MC – GEOPROBE MACROCORE SS – SPLIT SPOON DPSS – DIRECT PUSH SPLIT SPOON SH – SHELBY TUBE C – BEDROCK CORE

PROJECT & LOCATION: Former Loohn's Cleaners, formerly 33-35 East Pulteney Street, Corning, New York, 14801

CLIENT: Ms. Angela Hickey, 104 Front Street, Addison, New York 14830 WELL/BORING ID: **B7**

START DATE: April 19, 2006 COMPLETION DATE: April 19, 2006 RECORDED BY: David Teeter

GROUNDWATER DEPTH WHILE DRILLING: ~19 ft GROUNDWATER DEPTH AFTER COMPLETION: NA

WEATHER CONDITIONS: sunny, 72° DRILLING CONTRACTOR: Chambers Environmental Group

DRILL RIG: Geoprobe® 540UD DRILL SIZE & TYPE: 2" OD drive point DRILLER NAME(S): Keith Skow

Sample No.	OVM Reading (ppm)	Sample Interval (feet)	Sampler Type*	Recovery (inches)	Material Classification
					trace – 1-10% little – 11-20% some – 21-35% and – 36-50% f-fine m-medium c-coarse
1	0	0-4	MC	30	4" gravel ballast → 14" brown medium dense f SAND little subrounded to angular mc SAND and fm GRAVEL → 12" brown dense SILT and subrounded to subangular trace rounded c SAND and f GRAVEL. Moist. No unusual odor.
2	0	4-8	MC	24	brown dense SILT and subrounded to subangular fm GRAVEL. Moist. No unusual odor.
3	0	8-12	MC	44	24" brown medium dense f SAND and subrounded little subangular fm GRAVEL and mc SAND → 20" gray moderately cemented subrounded to subangular fmc GRAVEL and c SAND. Moist. No unusual odor.
4	0	12-16	MC	48	brown moderately cemented subrounded little subangular fmc GRAVEL and fmc SAND little SILT. Moist. No unusual odor.
5	0	16-20	MC	48	similar soils. Moist to wet at ~19 feet. No unusual odor.
6	0	20-24	MC	24	similar soils, lt brown and gray. Wet. No unusual odor.
					Boring terminated at 24 feet below ground surface.

NOTES Groundwater sample submitted for laboratory analysis.

*MC – GEOPROBE MACROCORE SS – SPLIT SPOON DPSS – DIRECT PUSH SPLIT SPOON SH – SHELBY TUBE C – BEDROCK CORE

PROJECT & LOCATION: Former Loohn's Cleaners, formerly 33-35 East Pulteney Street, Corning, New York, 14801
 CLIENT: Ms. Angela Hickey, 104 Front Street, Addison, New York 14830 WELL/BORING ID: **B8**
 START DATE: April 19, 2006 COMPLETION DATE: April 19, 2006 RECORDED BY: David Teeter
 GROUNDWATER DEPTH WHILE DRILLING: ~19 ft GROUNDWATER DEPTH AFTER COMPLETION: NA
 WEATHER CONDITIONS: sunny, 72° DRILLING CONTRACTOR: Chambers Environmental Group
 DRILL RIG: Geoprobe® 540UD DRILL SIZE & TYPE: 2" OD drive point DRILLER NAME(S): Keith Skow

Sample No.	OVM Reading (ppm)	Sample Interval (feet)	Sampler Type*	Recovery (inches)	Material Classification
					trace – 1-10% little – 11-20% some – 21-35% and – 36-50% f-fine m-medium c-coarse
1	0	0-4	MC	32	3" asphalt → 4" gravel ballast → 8" brown medium dense f SAND and SILT little subangular f GRAVEL → 8" brown moderately cemented subangular mc GRAVEL little SILT → 3" lt brown dense SILT trace rounded f GRAVEL → 6" brown moderately cemented subangular mc GRAVEL little SILT. Moist. No unusual odor.
2	0	4-8	MC	19	brown moderately cemented subrounded to subangular fmc SAND and fmc GRAVEL little SILT. Moist. No unusual odor.
3	0	8-12	MC	36	similar soils. Moist. No unusual odor.
4	0	12-16	MC	46	21" similar soils → 25" gray loosely cemented subangular to angular some subrounded fm GRAVEL little fmc SAND trace c GRAVEL. Moist. No usual odor.
5	0	16-20	MC	35	20" gray moderately cemented subangular fm GRAVEL and fmc SAND little SILT and c GRAVEL → 15" gray moderately cemented mc GRAVEL little subrounded f GRAVEL and c SAND trace SILT. Moist to wet at ~19 feet. No unusual odor.
6	0	20-24	MC	30	lt gray moderately cemented subrounded to subangular fmc GRAVEL and fmc SAND little SILT. Wet. No unusual odor.
					Boring terminated at 24 feet below ground surface.

NOTES Groundwater sample submitted for laboratory analysis.

*MC – GEOPROBE MACROCORE SS – SPLIT SPOON DPSS – DIRECT PUSH SPLIT SPOON SH – SHELBY TUBE C – BEDROCK CORE

*Phase II ESA – Former Loohn’s Cleaners
formerly 33-35 E. Pulteney Street, Corning, NY
May 10, 2006*

APPENDIX D
LABORATORY REPORT



quality ■ accuracy ■ reliability

ENVIRONMENTAL

2566 Pennsylvania Ave.
Sayre, PA 18840
Phone (570) 888-0169
FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840

Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave Teeter

Reported:
05/01/06 15:21

B-1
6D20030-01 (Ground Water)

Date Sampled: 04/19/06 10:25
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
Trichlorotrifluoroethane	<5.00	5.00	ug/l	04/27/06 00:00	04/27/06 00:00	SW-846/8260B	CY	
Carbon disulfide	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Benzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromodichloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromoform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
sec-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
tert-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Carbon tetrachloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	LCCV
2-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
4-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dichlorodifluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

The results in this report apply to the samples, as received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. The test results meet all requirements of NELAC.

Reviewed by Irene Chu, Laboratory Director

PA 08380

NY 11216

Page 1 of 27





quality ■ accuracy ■ reliability

ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of AnalysisTeeter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave TeeterReported:
05/01/06 15:21B-1
6D20030-01 (Ground Water)Date Sampled: 04/19/06 10:25
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SWB46/8260B Volatile Organic Compounds								
cis-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
trans-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
2,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Ethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Hexachlorobutadiene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Isopropylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
p-Isopropyltoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methylene chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Propylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Styrene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Tetrachloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Toluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichlorofluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Vinyl chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

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2566 Pennsylvania Ave.
 Sayre, PA 18840
 Phone (570) 888-0169
 FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

B-1
6D20030-01 (Ground Water)

Date Sampled: 04/19/06 10:25
 Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
o-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
m,p-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Naphthalene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methyl tert-butyl ether	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Acetone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl ethyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl isobutyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Surrogate: 1,2-Dichloroethane-d4		103 %	80-120		"	"	CY	
Surrogate: Toluene-d8		99.8 %	88-110		"	"	CY	
Surrogate: Bromofluorobenzene		99.8 %	86-115		"	"	CY	

Qualifiers:
 LCCV = Continuing Calibration Verification was below acceptance limits. Results may be biased low.

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Certificate of Analysis

Teeter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840

Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave Teeter

Reported:
05/01/06 15:21

MW-2
6D20030-02 (Ground Water)

Date Sampled: 04/19/06 10:45
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
Trichlorotrifluoroethane	<5.00	5.00	ug/l	04/27/06 00:00	04/27/06 00:00	SW-846/8260B	CY	
Carbon disulfide	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Benzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromodichloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromoform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
sec-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
tert-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Carbon tetrachloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	LCCV
2-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
4-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dichlorodifluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

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Reviewed by Irene Chu, Laboratory Director

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Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

MW-2
6D20030-02 (Ground Water)

Date Sampled: 04/19/06 10:45
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
cis-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
trans-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
2,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Ethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Hexachlorobutadiene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Isopropylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
p-Isopropyltoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methylene chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Propylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Styrene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Tetrachloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Toluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichlorofluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Vinyl chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

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Irene Chu

Reviewed by Irene Chu, Laboratory Director

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FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

**MW-2
6D20030-02 (Ground Water)**

Date Sampled: 04/19/06 10:45
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
o-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
m,p-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Naphthalene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methyl tert-butyl ether	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Acetone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl ethyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl isobutyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Surrogate: 1,2-Dichloroethane-d4		104 %		80-120	"	"	CY	
Surrogate: Toluene-d8		99.4 %		88-110	"	"	CY	
Surrogate: Bromofluorobenzene		97.8 %		86-115	"	"	CY	

Qualifiers:
LCCV = Continuing Calibration Verification was below acceptance limits. Results may be biased low.

Eastern Laboratory Services, Ltd.

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Sayre, PA 18840

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FAX (570) 888-0717

Certificate of Analysis

Tetter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840

Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave Tetter

Reported:
05/01/06 15:21

B-2
6D20030-03 (Ground Water)

Date Sampled: 04/19/06 11:30
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
Trichlorotrifluoroethane	<5.00	5.00	ug/l	04/27/06 00:00	04/27/06 00:00	SW-846/8260B	CY	
Carbon disulfide	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Benzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromodichloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromoform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
sec-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
tert-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Carbon tetrachloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	LCCV
2-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
4-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dichlorodifluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

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Reviewed by Irene Chu, Laboratory Director

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Certificate of Analysis

Tecter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Tecter	Reported: 05/01/06 15:21
---	--	-----------------------------

B-2
6D20030-03 (Ground Water)

Date Sampled: 04/19/06 11:30
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
cis-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
trans-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
2,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Ethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Hexachlorobutadiene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Isopropylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
p-Isopropyltoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methylene chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Propylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Styrene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Tetrachloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Toluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichlorofluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Vinyl chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

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Irene Chu

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Phone (570) 888-0169
FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

B-2
6D20030-03 (Ground Water)

Date Sampled: 04/19/06 11:30
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
o-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
m,p-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Naphthalene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methyl tert-butyl ether	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Acetone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl ethyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl isobutyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Surrogate: 1,2-Dichloroethane-d4	96.4 %		80-120		"	"	CY	
Surrogate: Toluene-d8	99.8 %		88-110		"	"	CY	
Surrogate: Bromofluorobenzene	98.6 %		86-115		"	"	CY	

Qualifiers:
LCCV = Continuing Calibration Verification was below acceptance limits. Results may be biased low.
PH = Insufficient preservative to reduce the sample pH to less than 2.

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

The results in this report apply to the samples, as received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. The test results meet all requirements of NELAC.

PA 08380

NY 11216





quality ■ accuracy ■ reliability

ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

MW-1
6D20030-04 (Ground Water)

Date Sampled: 04/19/06 11:45
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
Trichlorotrifluoroethane	<5.00	5.00	ug/l	04/27/06 00:00	04/27/06 00:00	SW-846/8260B	CY	
Carbon disulfide	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Benzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromodichloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromoform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
sec-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
tert-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Carbon tetrachloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	LCCV
2-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
4-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dichlorodifluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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PA 08380

NY 11216





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ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of AnalysisTeeter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave TeeterReported:
05/01/06 15:21MW-1
6D20030-04 (Ground Water)Date Sampled: 04/19/06 11:45
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
cis-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
trans-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
2,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Ethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Hexachlorobutadiene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Isopropylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
p-Isopropyltoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methylene chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Propylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Styrene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Tetrachloroethene	29.8	5.00	ug/l	04/27/06 00:00	"	"	CY	
Toluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichlorofluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Vinyl chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Reviewed by Irene Chu, Laboratory Director

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ENVIRONMENTAL

2566 Pennsylvania Ave.
 Sayre, PA 18840
 Phone (570) 888-0169
 FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

MW-1
6D20030-04 (Ground Water)

Date Sampled: 04/19/06 11:45
 Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
o-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
m,p-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Naphthalene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methyl tert-butyl ether	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Acetone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl ethyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl isobutyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Surrogate: 1,2-Dichloroethane-d4	99.8 %		80-120		"	"	CY	
Surrogate: Toluene-d8	99.0 %		88-110		"	"	CY	
Surrogate: Bromofluorobenzene	99.2 %		86-115		"	"	CY	

Qualifiers:
 LCCV = Continuing Calibration Verification was below acceptance limits. Results may be biased low.

Eastern Laboratory Services, Ltd.

Irene Chu
 Reviewed by Irene Chu, Laboratory Director

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Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pulney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	---	-----------------------------

**MW-3
6D20030-05 (Ground Water)**

Date Sampled: 04/19/06 12:30
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
Carbon disulfide	<5.00	5.00	ug/l	04/27/06 00:00	04/27/06 00:00	SW-846/8260B	CY	
Trichlorotrifluoroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Benzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromodichloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromoform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
sec-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
tert-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Carbon tetrachloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	LCCV
2-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
4-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dichlorodifluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services. Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of Analysis

Tetter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840

Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave Tetter

Reported:
05/01/06 15:21

MW-3
6D20030-05 (Ground Water)

Date Sampled: 04/19/06 12:30
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
cis-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
trans-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
2,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Ethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Hexachlorobutadiene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Isopropylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
p-Isopropyltoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methylene chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Propylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Styrene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Tetrachloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Toluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichlorofluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Vinyl chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Reviewed by Irene Chu, Laboratory Director

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ENVIRONMENTAL

2566 Pennsylvania Ave.
Sayre, PA 18840
Phone (570) 888-0169
FAX (570) 888-0717

Certificate of Analysis

Tetter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Tetter	Reported: 05/01/06 15:21
---	--	-----------------------------

MW-3
6D20030-05 (Ground Water)

Date Sampled: 04/19/06 12:30
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
o-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
m,p-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Naphthalene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methyl tert-butyl ether	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Acetone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl ethyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl isobutyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Surrogate: 1,2-Dichloroethane-d4		103 %	80-120		"	"	CY	
Surrogate: Toluene-d8		101 %	88-110		"	"	CY	
Surrogate: Bromofluorobenzene		96.4 %	86-115		"	"	CY	

Qualifiers:
LCCV = Continuing Calibration Verification was below acceptance limits. Results may be biased low.

Eastern Laboratory Services. Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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ENVIRONMENTAL

2566 Pennsylvania Ave.
Sayre, PA 18840
Phone (570) 888-0169
FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840

Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave Teeter

Reported:
05/01/06 15:21

B-3
6D20030-06 (Ground Water)

Date Sampled: 04/19/06 13:00
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
Carbon disulfide	<5.00	5.00	ug/l	04/27/06 00:00	04/27/06 00:00	SW-846/8260B	CY	
Trichlorotrifluoroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Benzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromodichloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromoform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
sec-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
tert-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Carbon tetrachloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	LCCV
2-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
4-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dichlorodifluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

The results in this report apply to the samples, as received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. The test results meet all requirements of NELAC.

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NY 11216





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ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of AnalysisTetter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave TetterReported:
05/01/06 15:21B-3
6D20030-06 (Ground Water)Date Sampled: 04/19/06 13:00
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
cis-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
trans-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
2,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Ethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Hexachlorobutadiene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Isopropylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
p-Isopropyltoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methylene chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Propylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Styrene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Tetrachloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Toluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichlorofluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Vinyl chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Reviewed by Irene Chu, Laboratory Director

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ENVIRONMENTAL

2566 Pennsylvania Ave.
Sayre, PA 18840
Phone (570) 888-0169
FAX (570) 888-0717

Certificate of Analysis

Tecter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Tecter	Reported: 05/01/06 15:21
---	--	-----------------------------

B-3
6D20030-06 (Ground Water)

Date Sampled: 04/19/06 13:00
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
o-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
m,p-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Naphthalene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methyl tert-butyl ether	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Acetone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl ethyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl isobutyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Surrogate: 1,2-Dichloroethane-d4	105 %		80-120		"	"	CY	
Surrogate: Toluene-d8	98.8 %		88-110		"	"	CY	
Surrogate: Bromofluorobenzene	96.4 %		86-115		"	"	CY	

Qualifiers:
LCCV = Continuing Calibration Verification was below acceptance limits. Results may be biased low.
PH = Insufficient preservative to reduce the sample pH to less than 2.

Eastern Laboratory Services. Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840

Project: 35-41 E. Pulney Street
Project No: [none]
Project Manager: Dave Teeter

Reported:
05/01/06 15:21

B-4
6D20030-07 (Ground Water)

Date Sampled: 04/19/06 14:00
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
Trichlorotrifluoroethane	<5.00	5.00	ug/l	04/27/06 00:00	04/27/06 00:00	SW-846/8260B	CY	
Carbon disulfide	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Benzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromodichloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromoform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
sec-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
tert-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Carbon tetrachloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	LCCV
2-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
4-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dichlorodifluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Reviewed by Irene Chu, Laboratory Director

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ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of AnalysisTeeter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave TeeterReported:
05/01/06 15:21B-4
6D20030-07 (Ground Water)Date Sampled: 04/19/06 14:00
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
cis-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
trans-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
2,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Ethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Hexachlorobutadiene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Isopropylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
p-Isopropyltoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methylene chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Propylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Styrene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Tetrachloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Toluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichlorofluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Vinyl chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Reviewed by Irene Chu, Laboratory Director

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ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

B-4
6D20038-07 (Ground Water)

Date Sampled: 04/19/06 14:00
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
o-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
m,p-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Naphthalene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methyl tert-butyl ether	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Acetone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl ethyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl isobutyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Surrogate: 1,2-Dichloroethane-d4		105 %	80-120		"	"	CY	
Surrogate: Toluene-d8		98.6 %	88-110		"	"	CY	
Surrogate: Bromofluorobenzene		97.8 %	86-115		"	"	CY	

Qualifiers:

LCCV = Continuing Calibration Verification was below acceptance limits. Results may be biased low.
PH = Insufficient preservative to reduce the sample pH to less than 2.

Eastern Laboratory Services. Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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2566 Pennsylvania Ave.
Sayre, PA 18840
Phone (570) 888-0169
FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

B-8
6D20030-08 (Ground Water)

Date Sampled: 04/19/06 17:00
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
Trichlorotrifluoroethane	<5.00	5.00	ug/l	04/27/06 00:00	04/27/06 00:00	SW-846/8260B	CY	
Carbon disulfide	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Benzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromodichloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromoform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Bromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
sec-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
tert-Butylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Carbon tetrachloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloroform	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Chloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	LCCV
2-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
4-Chlorotoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromochloromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dibromomethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Dichlorodifluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Irene Chu

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Reviewed by Irene Chu, Laboratory Director

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Eastern Laboratory Services Ltd

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ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

B-8
6D20030-08 (Ground Water)

Date Sampled: 04/19/06 17:00
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
cis-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
trans-1,2-Dichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
2,2-Dichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Ethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Hexachlorobutadiene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Isopropylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
p-Isopropyltoluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methylene chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
n-Propylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Styrene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Tetrachloroethene	8.80	5.00	ug/l	04/27/06 00:00	"	"	CY	
Toluene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichloroethene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Trichlorofluoromethane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Vinyl chloride	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	

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Irene Chu

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PA 08380

NY 11216

Reviewed by Irene Chu, Laboratory Director





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ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of AnalysisTeeter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave TeeterReported:
05/01/06 15:21B-8
6D20030-08 (Ground Water)Date Sampled: 04/19/06 17:00
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								PH
o-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	SW-846/8260B	CY	
m,p-Xylene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Naphthalene	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Methyl tert-butyl ether	<5.00	5.00	ug/l	04/27/06 00:00	"	"	CY	
Acetone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl ethyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Methyl isobutyl ketone	<10.0	10.0	ug/l	04/27/06 00:00	"	"	CY	
Surrogate: 1,2-Dichloroethane-d4	106 %		80-120		"	"	CY	
Surrogate: Toluene-d8	99.4 %		88-110		"	"	CY	
Surrogate: Bromofluorobenzene	96.4 %		86-115		"	"	CY	

Qualifiers:

LCCV = Continuing Calibration Verification was below acceptance limits. Results may be biased low.

PH = Insufficient preservative to reduce the sample pH to less than 2.

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Reviewed by Irene Chu, Laboratory Director

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Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

**B-3 16'-20'
6D20030-09 (Grab)**

Date Sampled: 04/19/06 12:45
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
% Solids	97.1	0.100	%	04/26/06 00:00	04/26/06 00:00	EPA 160.3	KAL	LLFB
SW846/8260B Volatile Organic Compounds								
Trichlorotrifluoroethane	<12.0	12.0	ug/kg	04/27/06 00:00	04/27/06 00:00	SW-846/8260B	CY	
Carbon disulfide	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Benzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Bromobenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Bromochloromethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Bromodichloromethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Bromoform	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Bromomethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
n-Butylbenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
sec-Butylbenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
tert-Butylbenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Carbon tetrachloride	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Chlorobenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Chloroethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Chloroform	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Chloromethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	LCCV
2-Chlorotoluene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
4-Chlorotoluene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Dibromochloromethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Dibromomethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,2-Dibromoethane (EDB)	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,2-Dibromo-3-chloropropane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Dichlorodifluoromethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,1-Dichloroethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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ENVIRONMENTAL

2566 Pennsylvania Ave.

Sayre, PA 18840

Phone (570) 888-0169

FAX (570) 888-0717

Certificate of AnalysisTecter Environmental
RD#1, Box 124B, Macafee Road
Sayre PA, 18840Project: 35-41 E. Pultney Street
Project No: [none]
Project Manager: Dave TectorReported:
05/01/06 15:21B-3 16'-20'
6D20030-09 (Grab)Date Sampled: 04/19/06 12:45
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
1,2-Dichloroethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	SW-846/8260B	CY	
1,1-Dichloroethene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
cis-1,2-Dichloroethene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
trans-1,2-Dichloroethene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,2-Dichloropropane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,3-Dichloropropane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
2,2-Dichloropropane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,1-Dichloropropene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Ethylbenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Hexachlorobutadiene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Isopropylbenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
p-Isopropyltoluene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Methylene chloride	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
n-Propylbenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Styrene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Tetrachloroethene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Toluene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Trichloroethene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Trichlorofluoromethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	

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Reviewed by Irene Chu, Laboratory Director

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Sayre, PA 18840
Phone (570) 888-0169
FAX (570) 888-0717

Certificate of Analysis

Teeter Environmental RD#1, Box 124B, Macafee Road Sayre PA, 18840	Project: 35-41 E. Pultney Street Project No: [none] Project Manager: Dave Teeter	Reported: 05/01/06 15:21
---	--	-----------------------------

**B-3 16'-20'
6D20030-09 (Grab)**

Date Sampled: 04/19/06 12:45
Date Received: 04/20/06 08:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
SW846/8260B Volatile Organic Compounds								
Vinyl chloride	<12.0	12.0	ug/kg	04/27/06 00:00	"	SW-846/8260B	CY	
o-Xylene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
m,p-Xylene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Naphthalene	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Methyl tert-butyl ether	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Acetone	<24.0	24.0	ug/kg	04/27/06 00:00	"	"	CY	
Methyl isobutyl ketone	<24.0	24.0	ug/kg	04/27/06 00:00	"	"	CY	
Methyl ethyl ketone	<24.0	24.0	ug/kg	04/27/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<12.0	12.0	ug/kg	04/27/06 00:00	"	"	CY	
Surrogate: 1,2-Dichloroethane-d4	99.6 %		85-112		"	"	CY	
Surrogate: Toluene-d8	98.4 %		89-108		"	"	CY	
Surrogate: Bromofluorobenzene	94.2 %		75-116		"	"	CY	

Qualifiers:

- LCCV = Continuing Calibration Verification was below acceptance limits. Results may be biased low.
- LLFB = LFB % Recovery below acceptance limits. The result may be biased low.

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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CHAIN OF CUSTODY



Eastern Laboratory Services LTD

Eastern Laboratory Services, Ltd.
2566 Pennsylvania Avenue • Sayre, PA 18840
Phone: (570) 888-0169

REPORT TO: Tes Inc
R.R#1 BX 1240
Sayre Pa. 18840

CONTACT _____
 PH# _____
 FAX# _____
 BILL TO: Tes Inc
 PO# _____
 PROJECT DESCRIPTION
35-41-E Poltency Street
 SAMPLER SIGNATURE / AFFILIATION
[Signature] Tes Inc
 CONTAINER _____ SAMPLING POINT _____

REFRIGERATE SAMPLES
AFTER COLLECTION

TRANSPORT
TO
LABORATORY
IN COOLER
WITH ICE

RESULTS ARE BEING USED FOR:

NYDOH NYDEC PADEP
 LANDFILL _____
 PERSONAL OTHER _____

ARE SPECIAL DETECTION LIMITS
NEEDED: YES NO

IF YES, PLEASE ATTACH _____

IS A QC PACKAGE NEEDED?
YES NO

IF YES, PLEASE ATTACH REQUIREMENTS _____

DW	DRINKING WATER	SL	SLUDGE
GW	GROUND WATER	SO	SOIL
SW	SURFACE WATER	HZ	HAZARDOUS
WW	WASTE WATER	OTHER	
DE	DEIONIZED WATER	DI	DISTILLED WATER

H	HYDROCHLORIC ACID	OH	SODIUM HYDROXIDE
S	SULFURIC ACID	AS	ASCORBIC ACID
N	NITRIC ACID	AC	ACETIC ACID
SO ₃	SODIUM SULFITE	NH ₄	AMMONIUM CHLORIDE
Thio	SODIUM THIOSULFATE	ZN	ZINC ACETATE
-	NONE	Hg	MERCURIC CHLORIDE

An incomplete chain of custody may delay the processing of your sample(s).

Please fill out all applicable areas completely

CONTAINER	SAMPLING POINT	DATE SAMPLED	TIME OF SAMPLING	SAMPLE MATRIX	SAMPLETYPE - GRAB / COMPOSITE	SAMPLER INITIALS	PRESERVATIVE	ANALYSIS TO BE PERFORMED (PER CONTAINER)	ELLS USE ONLY	
									COMPOSITED ON RECEIPT	PRESERVATIVE ADDED ON RECEIPT
1	B-1	4/19/06	10:25	GW	G	DT	H-1	8260		6020030-01AB
2	MW-2	4/19/06	10:45	GW	G	DT	H-1	8260		-02AB
3	B-2	4/19/06	11:30	GW	G	DT	H-1	8260		-03AB
4	MW-1	4/19/06	11:45	GW	G	DT	H-1	8260		-04AB
5	MW-3	4/19/06	12:30	GW	G	DT	H-1	8260		-05AB
6	B-3	4/19/06	1:00	GW	G	DT	H-1	8260		-06AB
7	B-4	4/19/06	2:00	GW	G	DT	H-1	8260		-07AB
8	B-8	4/19/06	5:00	GW	G	DT	H-1	8260		-08AB
9	B-3 -16' -20'	4/19/06	12:45	SO	G	DT	none	8260		-09A
10	↓							90TS		↓ B
11										↓ B

ELLS USE ONLY

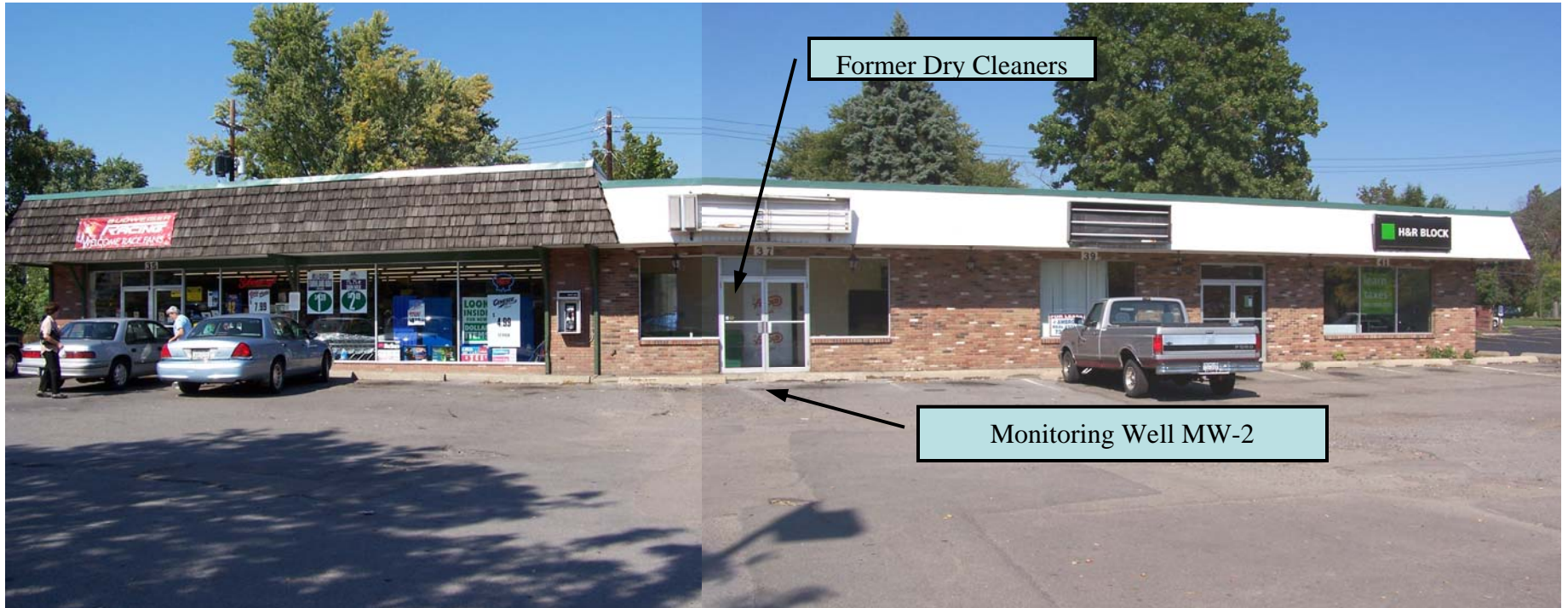
DELIVERED BY DT TEMPERATURE UPON RECEIPT 3 °C ARRIVAL ON ICE Y N

RELINQUISHED BY: _____	DATE: / /	TIME: / /	RECEIVED BY: _____	DATE: / /	TIME: / /
RELINQUISHED BY: _____	DATE: / /	TIME: / /	RECEIVED BY: _____	DATE: / /	TIME: / /
RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>4/20/06</u>	TIME: <u>850</u>	RECEIVED BY: <u>Debbie McCarty</u>	DATE: <u>4/20/06</u>	TIME: <u>850</u>

APPENDIX B

SITE PHOTOGRAPHS

LOOHN'S CORNING DRY CLEANERS SITE PHOTOGRAPHS



Loohn's Corning Site building. View looking north. Former dry cleaner occupied center retail space.

LOOHN'S CORNING DRY CLEANERS SITE PHOTOGRAPHS



Looking east along rear of Site building. First door is the rear door of the former dry cleaners.

LOOHN'S CORNING DRY CLEANERS SITE PHOTOGRAPHS



Looking east along rear of Site Building.
Door to former dry cleaner is behind brown dumpster.



Looking south at southwest side of Site building.
(white door to convenient store).

LOOHN'S CORNING DRY CLEANERS SITE PHOTOGRAPHS



Looking east along East Pulteney Street, across from Loohn's Corning Site. Geoprobe is set up to collect soil gas sample GV-2.

APPENDIX C

FIELD DATA RECORDS

TEST BORING LOG

Project NYSDEC - Region 8 Dry Cleaners		Boring/M No. GW-1	Project No. 3612052036
Client NYSDEC		Site Lookns Cleaners	Sheet No. 1 of 1
Logged By Brendan Shaw		Ground Elevation	Start Date 02/15/06
Drilling Contractor ADT		Driller's Name Roger Buley	Finish Date 02/15/06
Drilling Method Direct Push		Protection Level D	Rig Type Geo Probe S1006610
Soil Drilled 20'	Rock Drilled	Total Depth 28'	Depth to Groundwater/Date <input type="checkbox"/> Piez <input checked="" type="checkbox"/> Well <input type="checkbox"/> 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)			Lab Tests
									PI Meter Field Scan	PI Meter Head Space		
1						0-1.5 olive brown silty fine sand w/ roots, PG, waist, SP, m dense	0 zone					
2	1.4/4.0					1.5-2.5 same as 0-1.5 but w/ some fine gravel.	GM					
3						2.5-4 orange sand-clay-gravel wet, NP, loose/m dense, w/c	GM					
4						4-4.8 same as 2.5-4	GC					
5						4.8-9.2 lt brown sandy gravel w/c, most, trace fines, NP, m dense	GC					
6	2.3/4.0					7.2-8 brown sand-gravel w/ rock flour, broken cobbles damp, NP, w/c	GW					
7						8-9 brown silt-sand gravel w/c, waist, SP, trace clay, Dense	GM/ml					
8						9-12 sandy gravel, damp fine trace cobble/rock flour @ 11.7	GM/ml					
9						+ 12: Soil Sample @ 11-12						
10	4.0/4.0					12-14.4 sandy gravel/or gravel/cobbles w/ sand, w/c may cobble which have been broken, rock flour	GW					
11						14.4-16 olive gray silt, PG, v. Dense, moist, SP, trace sand	GM/ml					
12						19.5 water, saturated zone silty sand gravel.	GM/ml			700ppb		
13						Bas @ 28' pocket w/ water sampler from 20' to 28'	GW/GP				6000ppb	
14	4.0/4.0											
15	4.0/4.0											200ppb
16												

S1

S2

S3

S4

S5

RDS: 28' bgs; Direct Push

8800 ppb - 18.5' - 19'

TEST BORING LOG

Project NYSDEC - Region 8 Dry Cleaners		Boring/W. No. GW-2	Project No. 3612052036
Client NYSDEC	Site Lookus Cleaners	Sheet No. <u>1</u> of <u>1</u>	
Logged By Brandon Shaw	Ground Elevation	Start Date 02/15/06	Finish Date 02/15/06
Drilling Contractor ADT	Driller's Name Roger Buley	Rig Type Geo Probe S1006610	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV)	Casing Size 1 1/2" Auger Size 1 1/2"
Soil Drilled 16' 20'	Rock Drilled	Total Depth 28'	Depth to Groundwater/Date Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

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)		Lab Tests
									PI Meter	Field Scan	
									PI Meter Head Space		
1						0-2 Brownish olive silty fine sand, PG, damp/frozen @ surface, SP-friable, M Dense.	SM		21.0		
2	1.7/4.0					2-3.5 orange/brown clay-gravel w/ little sand, WG, stiff, MP			20.0		
3						3.5-4 orange/brown silt-gravel-sand mixt, WG, M Dense, SP	GC		21.0		
4						4-6 orange/brown silty sand and gravel, WG, some roots, M Dense, wet, SP/NP	GM				
5	2.0/4.0					6-7.1 lt brown silty sandy gravel, worst, WC, Dense, NP			<1.0		
6						7.1-8 lt brown sandy-gravel w/ trace fines, NP, WG, damp					
7						8-9.1 same as 2-3.5					
8						9.1-9.5 Brown clean fine sand damp, PG, v. Dense	GM				
9						9.5-10.8 lt brown sandy gravel WG, rock frag. v. angular pieces of cobbles, dry, NP, M Dense	SW				
10	2.8/4.0					10.8-10.9 lt brown dry clay loam, friable, PG, NP	SN		<1.0		
11						10.9-12 same as 9.5-10.8	SP				
12						12-16 Brown silt-sand-gravel no. st - wet, NP, WG, M Dense	SW				
13						*collected soil Sample 14'-16' LEGS00201501XX @ 0930	GW		21.0	50 ppb	
14	3.7/4.0					*annular got tight @ -25'					
15						300 @ 28', pushed w/ water supply from 16' to 28'					100 ppb

TEST BORING LOG

Project NYSDEC - Region 8 Dry Cleaners		Boring/W No. GW-6	Project No. 3612052036
Client NYSDEC	Site Lech's Cleaners		Sheet No. 1 of 1
Logged By Brandon Snow	Ground Elevation	Start Date 02/16/06	Finish Date 02/16/06
Drilling Contractor ADT	Driller's Name Roger B. Wey		Rig Type Geo Probe S100 G610
Drilling Method Direct Push	Protection Level D	P.I.D. (eV)	Casing Size 1 1/2" Auger Size 1 1/2"
Soil Drilled 16'	Rock Drilled	Total Depth 27'	Depth to Groundwater/Date -15'
		Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring <input type="checkbox"/>	

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Fl.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
1						0-2 DK blue/DK Brown silty fine sand w/ some fine gravel, roots, WG, moist, SP	SM/GM		41.0		
2	1.6/4.0					2-3.5 olive tan clay-gravel, wet, HP/MP, WG, stiff, organic, roots					
3						3.5-4 sandy clay, gravel, orange lt brown, wet, SP, loose, WG	GC				
4						4-5.5 lt brown silt-sand-gravel wet, WG, SP, roots	SC/GC				
5						5.5-5.9 lt brown sandy clay w/ gravel, MP, wet, WG, soft	GM		41.0		
6	1.7/4.0					5.9-6.2 white cobble-sandstone w/ rock flour	GC				
7						6.2-8 lt brown silty sand and gravel, dry, MP, trace clay lenses (coll.) throughout siltstone, friable - lb brown	GP/ML		200ppb	300ppb	
8						8-10.4 lt brown silty sand-gravel dry, WG, MP, loose	GM		150ppb		
9						10.4-11.6 sandy gravel w/ some fines, PG, dry, NP			350ppb		
10	3.9/4.0					11.6-12 sandy clay w/ some fine gravel, dry, friable, well drained, stratified			401	200ppb	
11						12-12.8 silty sand w/ fine gravel, dry, loose, NP, PG	GP		41.0		
12						12.8-13.6 same as 11.6-12	SC				
13						13.6-14.8 gravel w/ some sand and rock flour, PG, NP, dry	SM			180ppb	
14	2.8/4.0					14.8-15.5 olive brown silt-sand w/ trace clay lenses, dry, NP, friable, dense	GP/ML			50	
15						15.5-16 white sandstone/rock flour, PG, dry, NP	SM/GC			400ppb	
16						refusal @ 27' w/ water sample from 16'-27'	ML			600ppb	

TEST BORING LOG

Project NYSDEC - Region 8 Dry Cleaners		Boring/M No. GW-9	Project No. 3612052036
Client NYSDEC	Site Lookn Cleaners		Sheet No. 1 of 1
Logged By Brendan Shaw	Ground Elevation	Start Date 02/15/06	Finish Date 02/15/06
Drilling Contractor ADT		Driller's Name Roger Bulca	Rig Type Geo Probe S100 6610
Drilling Method Direct Push		Protection Level D	P.I.D. (eV)
Soil Drilled 16'		Rock Drilled	Total Depth 32'
		Depth to Groundwater/Date	
		<input type="checkbox"/> Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring	

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Fl.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
1						0-0.5 dk olive silty sand - gravel saturated w/g, mp, m dense			4.0		
2	0.8/4.0					0.5-4. dk olive silty sand w/ some fine gravel, moist, dense.					
3						4-~6 olive brown silty clay w/ trace fine gravel, Dg, wet Hb, soft	FI				
4						6-8 orange/brown silty sand - gravel PG, dry, NP.					
5						8-8.6 orange/brown clay - sand - gravel w/g, mp, wet, m dense.	GM/GC		4.0		
6	0.5/4.0					8.6-8.7 mortar piece - red brick.					
7						8.7-10 lt brown sand - gravel w/ some silt					
8						10-10.2 yellow cobble/rock flour	GM				
9						10.2-12 brown silt - sand clay w/g, wet, m dense, NP, clay lense @ 11.9-12	GC		4.0		
10	2.0/4.0					12-13 brown silt - sand - gravel w/ trace clay, wet, w/g, mp, m dense	GM				
11						13-14 white sandstone rock flour w/ pnf sandstone.	SM/SC				
12						14-15.1 lt brown silt sand w/ some gravel					
13						15.1-15.5 cobble. white rock flour	GM				
14	1.8/4.0					15.5-16 lt brown sandy gravel, wet/sat., sl. h Loder NP, loose, w/g	ML				
15						Bores @ 32'; pushed w/ water sampler from 16'	SM ML GW				

S1

S2

S3

S4

500 p/b

TEST BORING LOG

Project NYSDEC - Region 8 Dry Cleaners		Boring/W No. GW-10	Project No. 3612052036
Client NYSDEC	Site Loon's Cleaners	Sheet No. 1 of 1	
Logged By Brandon Shaw	Ground Elevation	Start Date 02/15/05	Finish Date 02/15/05
Drilling Contractor ADT	Driller's Name Roger Bulky	Rig Type Geoprobe S100610	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV)	Casing Size 1 1/2" Auger Size 1 1/2"
Soil Drilled 16'	Rock Drilled	Total Depth 25'	Depth to Groundwater/Date Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring <input type="checkbox"/>

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)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
1						0-2 Olive Sand - clayey - gravel wet, WG, V-angular to rounded, MP, stiff.	Fill		41.0		
2	1.6/4.0					2.0-2.1 white ash layer					
3						2.1-2.2 Black soft layer of, rusty w/ 0.05' imp, shiny, glass slag	SM				
4						2.2-3 olive brown silty fine sand, PG, moist, MP, m Dense.	CL GW	} fill?			
5						3-3.4 lt Brown/olive silty clay, PG, moist, MP, trace fine gravel			41.0		
6	2.1/4.0					3.4-4 lt orange/olive sandy gravel w/ little silt, WP, NP/SP, loose	F-11				
7						4-4.8 same as 3.4-4					
8						4.8-5.2 brick pieces, red, dry	GP				
9						5.2-8 lt Brown sandy gravel w/ little fine silt, damp/dry, WG, loose/m dense, NP					
10	3.8					8-12 silty - sand - gravel dry, m dense, NP, WG.	GM		41.0		
11	4.0					12-13.1 same as 8-12			100ppb		
12						13.1-14.1 lt Brown clay sand w/ gravel, moist/wet, WG, SP, Dense			800ppb		
13						14.1-15 lt Brown/olive clay sand - gravel, WG, dry, m Dense NP			100ppb		
14	2.1/4.0					15-16 Brown sandy gravel w/ white fines, wet, NP loose			50ppb		
15									41.0		
16											
25' Bore @ 25'; pushed 2 1/2" casing to 25'; refused @ 25'											
							SC/GC				
							GC				
							GW		100ppb		

Test Boring Log

Project REGION 8 D.C. - Group II		Boring/Well No. SB/GW-001	Project No. 2036 361206289/062
Client NYSDEC	Site Lochin-Addtrans	Sheet No. 1 of 1	
Logged By B. Smart	Ground Elevation	Start Date 10/31/2006	Finish Date 10/31/2006
Drilling Contractor Geologic, W	Driller's Name Joe Menezes	Rig Type 66 DT.	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) <input checked="" type="checkbox"/>	Casing Size 1 1/2 Auger Size 2 1/4
Soil Drilled 12'	Rock Drilled	Total Depth 12'	Depth to Groundwater/Date Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

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)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
1	2.2 / 4.0					0-0.5 Top soil & roots	Fill		60.9		
2						0.5-1.5 Brn fine sandy silt w/ trace fine gravel, silty, moist	CL	Composite 0.5 to 3.5 LCG 5000/401Kx (w/400 MS/MSD) also here			
3						1.5-3.2 orange brown/olive brown silty clay w/ sand, wet MP/HP;	CL				
4						3.2-4 orange brown sandy clay saturated, HP, trace coarse sand	CL				
5	3.1 / 4.0					olive Brn. silty sand & gravel, moist to dry.	GC		60.9		
6						Dense NP	GC				
7											
8											
9	1.6 / 4.0					orange brown gravelly sandy clay, saturated (dry @ ~11.7), M Stiff, MP	GC		40.1		
10							CL				
11											
12											
13											

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-002	Project No. 52039 36120627910...	
Client NYSDEC	Site WOLINS		Sheet No. 1 of 1	
Logged By B. Shaw	Ground Elevation	Start Date 10/31/2006	Finish Date 10/31/2006	
Drilling Contractor Geologic, M	Driller's Name be mensel		Rig Type 66 DT.	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV)	Casing Size 1 1/2	Auger Size 2 1/4
Soil Drilled 12'	Rock Drilled	Total Depth 12'	Depth to Groundwater/Date	
				Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

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)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
1	2.1 / 4.0					0-1.4 DK Olive Brn s. 1/4 Sand & gravel, roots, moist, AP.	Fill		20.1		
2						1.4-4 orange Brn s. 1/4 Sand moist, M Dense	Gm				
3											
4						4-4.5 reddish orange sandy clay w/ gravel, wet #P.	CC		60.1		
5	1.9 / 4.6					4.5-7 olive Brn silty sand & gravel, dry NP, M Dense	GC				
6						7-7.2 yellowish tan dry clay dense	Gm				
7						7.2-8 same as 4.5-7	CL				
8							GCC/Gm				
9						olive to Brn to Lt Brn silty sand & gravel, dry clay lamination @ ~10.2, moist	Gm		20.1		
10	3.9 / 4.0					fine & coarse, clean sand & gravel @ 10.5 -> deep	GC				
11											
12											
13											

S1

S2

S3

Composite Soil 14-4
LCGS 200401X
- 1 VOA @ 1410

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-003	Project No. 52036 3617062059/06.2
Client NYSDEC	Site Lochms Additional	Sheet No. 1 of 2	
Logged By B. Shaw	Ground Elevation	Start Date 10/31/2006	Finish Date 10/31/2006
Drilling Contractor Geologic, M	Driller's Name Joe Munsal	Rig Type 66 DT.	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV)	Casing Size 1 1/2 Auger Size 2 1/4
Soil Drilled S 16 1/2	Rock Drilled	Total Depth 16 7/8	Depth to Groundwater/Date Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

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)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
									1		
2	2.1/4.0					0.7-3 orange/brn silty sandy clay, MP, moist/wet unstrat	SM/SC	Composite 0.7 to 3	LL 65 20 30 0.01 x (A) 230		
3					3-4 Lt Brn sandy gravel w/ some silt, trace clay, moist w/SP,	Gm/Gc					
4						silty sand & gravel, moist to dry, NP; v. angular to subrounded, sandstone cobbles @ ~7' & 5.5'					
5											
6	3.0/4.0										
7											
8											
9						olive to Lt Brn to white silty sand & gravel, dry, NP, dense	Gm/Gc				
10	3.2/4.0										
11											
12											
13						12 to 14 Lt Brn/Lt olive silty fine sand & fine gravel dry, dense	Gm/Gc				
14	3.1/4.0					14-16 DK olive Brn silty coarse sand & gravel, wet v. dense 1 SP	Gm/Gc				
15											
16											

S1

S2

S3

S4

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

Test Boring Log

Project Region 8 D.C. - Group #		Boring/Well No. SB/GW-003	Project No. 52036/12002 3612062037/2	
Client NYSDEC	Site Loohus		Sheet No. 2 of 2	
Logged By B. Shaw	Ground Elevation	Start Date 10/21/2006	Finish Date 10/31/2006	
Drilling Contractor Geologic		Driller's Name Joe Muesel	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 <input checked="" type="checkbox"/>	Total Depth 22'	Depth to Groundwater/Date	
				Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

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)			Lab Tests
									PI Meter Field Scan	PI Meter Head Space		
14						on previous page	/					
15												
16						see a 16 to ~18.5			201			
17						silty sand & gravel, dry	GM					
18	3.6					18.5 - 20 Sand & fine gravel w/ some silty substrate	GC					
19	4.0											
20												
21												
22												
23												
24												
25												
26												
27												

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

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry CLEANERS - Group II Site: Additional Leaks - Corning
 Project Number: 361206200910.2 Date: 10/31/2006
361205203610.6.2 Time: Start: 1200 End: 1231
 Sample Location ID: LGGW00302001111 Signature of Sampler: _____

Water Level/Well Data

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

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

Height of Water Column _____ Ft. X _____ Gal/Vol. Well Integrity: Yes No
 _____ .16 Gal/Ft. (2 in.) _____ Prot. Casing Secure _____
 _____ .65 Gal/Ft. (4 in.) _____ Concrete Collar Intact _____
 _____ 1.5 Gal/Ft. (6 in.) _____ Total Gal Purged _____
 _____ Gal/Ft. (_____ in.) _____ Other _____

Equipment Documentation

Purging/Sampling Equipment Used:

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

SP-15 m115lot

Decontamination Fluids Used:

(✓ All That Apply at Location)

- _____ Methanol (100%)
- _____ 25% Methanol/75% ASTM Type II water
- ✓ Deionized Water
- ✓ Liquinox Solution
- _____ Hexane
- _____ HNO₃/D.I. Water Solution
- _____ Potable Water
- _____ None

Field Analysis Data

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

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	_____	_____	_____	_____	_____
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 I Lot Nos.
✓ VOCs	✓	4°C	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 ₂ SO ₄ , 4°C	1x1 liter P	
Nitrate/Phosphate	_____	H ₂ SO ₄ , 4°C	1x1 liter P	
Pest/PCB	_____	4°C	3x1 liter AG	
TPH	_____	H ₂ SO ₄ , 4°C	2x1 liter AG	
TOC	_____	H ₂ SO ₄ , 4°C	1x1 liter, P	

Notes: Screen 19 to 21
Purge water: cloudy to clear

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-004	Project No. 52036 361206289/062
Client NYSDEC	Site LOOHNS		Sheet No. 1 of 8
Logged By B. Shaw	Ground Elevation	Start Date 10/31/2006	Finish Date 10/31/2006
Drilling Contractor Geologic, M	Driller's Name be Mensel		Rig Type 66 DT.
Drilling Method Direct Push	Protection Level D	P.I.D. (eV)	Casing Size 1 1/2 Auger Size 2 1/4
Soil Drilled 12'	Rock Drilled	Total Depth 12'	Depth to Groundwater/Date Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

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)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
									1	0.8 / 4.0	
2						1-3 olive sandy clay v. soft, moist/wet, HP metal slag @ the bottom of sleeve	↓				
3											
4						4-4.2 Black sand, dry	Fill		10.1		
5	3.1 / 4.0					4.2-5 white concrete	↓				
6						5-6.5 olive brn silty sand dry, HP, m dense	sm	← Composite 5 to 6.5			
7						6.5 to 8 lt grey brn silty fine sand, gms, dry	sm			LC65004007d/K FXD @ 1430	
8							sm				
9						8-8.5 lt Brn clean silty fine sand, dry	sm		10.1		
10	3.9 / 4.0					8.5-9 DK Brn silty sand; v strong odor	sm	← Composite 8.5-9			
11						9-12 lt Brn silty sand	sm			LC65004009d/K FXD @ 1435	
12						9-12 lt Brn silty sand; gms, dry, m dense/dense	sm				

S1

S2

S3

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-005	Project No. 52036 3612062159/06.2
Client NYSDEC	Site Lookus-Additional		Sheet No. 1 of 2
Logged By B. Smart	Ground Elevation	Start Date 10/31/2006	Finish Date 10/31/2006
Drilling Contractor Geologic, Inc		Driller's Name Tim Carner Liam Cummings	Rig Type 66 DT.
Drilling Method Direct Push	Protection Level	P.I.D. (eV) <input checked="" type="checkbox"/>	Casing Size 1 1/2 Auger Size 2 1/4
Soil Drilled 20 SA	Rock Drilled	Total Depth 26	Depth to Groundwater/Date Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

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)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
1	3.1					0-1 dk Bm silt/clay, roots organic, SP, moist	Fill		20.1		
2	4.0					1-1.5 Brown olive silty fine sand 5 amp/ker gravel, dry, SP.	SM GM				
3						1.5-4 lt Brown orange silty fine sand w/ little fine gravel dry, m dense,	SM GM				
4						4.0-4.5 Brown fine sandy silt w/ gravel, dry, NP, m dense,	SM GM		20.1		
5	2.7										
6	4.0										
7											
8											
9						8-10.5 Same as 4 to 8'			20.1		
10	3.2					10.5 to 10.7 Brown silty sand w/ little clay, moist/damp, NP,					
11	4.0					10.7-12 lt gray/brown m coarse sandy gravel w/ some silt dry loose/m dense, NP	SM SC GM				
12	N/A					Sleeve got stuck inside auger core, no recovery					
13											
14	4.0										

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

Test Boring Log

Project Region 8 D.C. - Group #		Boring/Well No. SB/GW-005	Project No. 52070/10512 36120620574
Client NYSDEC	Site Loohus Addition	Sheet No. 2 of 2	
Logged By B. Shaw	Ground Elevation	Start Date 10/31/2006	Finish Date 10/31/2006
Drilling Contractor Geologic	Driller's Name Tim Cartner Liam Chinn	Rig Type GG 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 26'	Depth to Groundwater/Date Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

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)			Lab Tests
									PI Meter Field Scan	PI Meter Head Space		
14	N/A					cont from 10f2			N/A			
15	4.0								J			
16												
17	N/A					Sleeve is plugged			N/A			
18	4.0					+4.0 recovery, had to push the						
19												
20												
21												
22												
23												
24												
25												
26												
27												

at from
f2
S4

S5

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

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS DRY CLEANERS - GROUP II Site: Additional Locations - Corning
 Project Number: 361206200910.2 Date: 10/31/2006
361205203610.6.2 Time: Start: 1033 End: 1200
 Sample Location ID: LCIGW1015021101RX Signature of Sampler: _____

Water Level/Well Data

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

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

Height of Water Column _____ Ft. _____ Gal/Vol. Well Integrity: _____ Yes _____ No
 X _____ .16 Gal/Ft. (2 in.) _____ Prot. Casing Secure _____
 _____ .65 Gal/Ft. (4 in.) _____ Concrete Collar Intact _____
 _____ 1.5 Gal/Ft. (6 in.) _____ Total Gal Purged _____
 _____ Gal/Ft. (in.) _____ Other _____

Geoprobe

Equipment Documentation

Purging/Sampling Equipment Used:

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

SRX Milt Stok

Decontamination Fluids Used:

(✓ All That Apply at Location)

- _____ Methanol (100%)
- _____ 25% Methanol/75% ASTM Type II water
- ✓ Deionized Water
- ✓ Liquinox Solution
- _____ Hexane
- _____ HNO₃/D.I. Water Solution
- _____ Potable Water
- _____ None

Field Analysis Data

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

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	16			
pH, units	8.1			
Specific Conductivity (µmhos/cm)	0.701			
Turbidity (NTUS)	>1000			
Oxidation - Reduction, +/- mv				
Dissolved Oxygen, ppm	17.9			

Sample Collection Requirements
(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle I/Lot Nos.
✓ VOCs	✓	4°C	3/4 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 ₂ SO ₄ , 4°C	1x1 liter P	
Nitrate/Phosphate		H ₂ SO ₄ , 4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H ₂ SO ₄ , 4°C	2x1 liter AG	
TOC		H ₂ SO ₄ , 4°C	1x1 liter, P	

Notes: SRON: 1/9/20 to 2/22/07
Purging water. Lt Tan

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

Test Boring Log

Project REGION 8 D.C. - Group II		Boring/Well No. SB/GW-006	Project No. 52036 3612062159/06.2
Client NYSDEC	Site LOOLNS		Sheet No. 1 of 1
Logged By B. Shaw	Ground Elevation	Start Date 10/31/2006	Finish Date 10/31/2006
Drilling Contractor Geologic, M	Driller's Name Joe Munnell		Rig Type 66 DT.
Drilling Method Direct Push	Protection Level D	P.I.D. (eV)	Casing Size 1 1/2 Auger Size 2 1/4
Soil Drilled 12'	Rock Drilled	Total Depth 12'	Depth to Groundwater/Date Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

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)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
1						DK Brown silty loam w glass & glass v soft	Fill		6.1		
2	0.6 / 4.0										
3											
4						Brick (red) to ~4.8			6.1		
5						5.5 to 8 Lt Brunton, silty fine sand & fine gravel, Dry, v. Dense	Fill				
6	3.0 / 4.0										
7											
8											
9						Black slag & roots @ 9'			6.1		
10	3.9 / 4.0					9 to 12 Same as 5.5 to 8					
11											
12											
13											

S1

S2

S3

* no soil sample taken here

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

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS DRY CLEANERS - GROUP II Site: Loon's
 Project Number: 3612002059/0.2 Date: 10/31/06
3612052036/0602 Time: Start: 8:40 End: 9:48
 Sample Location ID: LCGW000702101XX Signature of Sampler: LM

Water Level/Well Data

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

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

Height of Water Column _____ Ft. X _____ Gal/Ft. (2 in.) = _____ Gal/Vol. Well Integrity: Yes No
 _____ Gal/Ft. (4 in.) _____ Prot. Casing Secure _____
 _____ Gal/Ft. (6 in.) _____ Concrete Collar Intact _____
 _____ Gal/Ft. (in.) _____ Total Gal Purged _____ Other _____

Equipment Documentation

Purging/Sampling Equipment Used: Decontamination Fluids Used:

(<input checked="" type="checkbox"/> If Used For)				(<input checked="" type="checkbox"/> All That Apply at Location)
<input checked="" type="checkbox"/> Purging	<input checked="" type="checkbox"/> Sampling	Peristaltic Pump	Equipment ID _____	<input type="checkbox"/> Methanol (100%)
<input type="checkbox"/>	<input type="checkbox"/>	Submersible Pump	_____	<input type="checkbox"/> 25% Methanol/75% ASTM Type II water
<input type="checkbox"/>	<input type="checkbox"/>	Bailer	_____	<input checked="" type="checkbox"/> Deionized Water
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PVC/Silicon Tubing	_____	<input checked="" type="checkbox"/> Liquinox Solution
<input type="checkbox"/>	<input type="checkbox"/>	Teflon/Silicon Tubing	_____	<input type="checkbox"/> Hexane
<input type="checkbox"/>	<input type="checkbox"/>	Airlift	_____	<input type="checkbox"/> HNO ₃ /D.I. Water Solution
<input type="checkbox"/>	<input type="checkbox"/>	Hand Pump	_____	<input type="checkbox"/> Potable Water
<input type="checkbox"/>	<input type="checkbox"/>	In-line Filter	_____	<input type="checkbox"/> None
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Press/Vac Filter	_____	_____
		<u>SP-15</u>		

Field Analysis Data

PID: Ambient Air 1 ppm Well Mouth 1 ppm Purge Data Collected In-line Turbid Clear Cloudy
 In Container Colored Odor

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	<u>13.3°C</u>				
pH, units	<u>7.8</u>				
Specific Conductivity (µmhos/cm)	<u>0.651</u>				
Turbidity (NTUS)	<u>>999</u>				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	<u>14.8mg/L</u>				

Sample Collection Requirements (If Required at this Location)

Analytical Parameter	<input checked="" type="checkbox"/> If Sample Collected	Preservation Method	Volume Required	Sample Bottle / Lot Nos.
<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/>	4°C	<u>3</u> x 40 ml	
<input type="checkbox"/> SVOCs	<input type="checkbox"/>	4°C	2x1 liter AG	
<input type="checkbox"/> Metals	<input type="checkbox"/>	HNO ₃ , 4°C	1x1 liter P	
<input type="checkbox"/> Cyanide	<input type="checkbox"/>	NaOH, 4°C	1x500mLP	
<input type="checkbox"/> Nitrate/Sulfate	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	
<input type="checkbox"/> Nitrate/Phosphate	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	
<input type="checkbox"/> Pest/PCB	<input type="checkbox"/>	4°C	3x1 liter AG	
<input type="checkbox"/> TPH	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	2x1 liter AG	
<input type="checkbox"/> TOC	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	

Notes: SP-15 19-23
Purge water: N/A

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: Loehn's
 Project Number: 3612062059/0-2 Date: 10/31/06
3612052036/062 Time: Start: 8:28 End: 8:35
 Sample Location ID: LCGW00702501XX Signature of Sampler: [Signature]

Water Level/Well Data

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

GEO PROBE

Equipment Documentation

Purging/Sampling Equipment Used: **Decontamination Fluids Used:**

<input checked="" type="checkbox"/> (If Used For)			
<input checked="" type="checkbox"/> Purging	<input checked="" type="checkbox"/> Sampling	Peristaltic Pump	Equipment ID _____
<input type="checkbox"/>	<input type="checkbox"/>	Submersible Pump	_____
<input type="checkbox"/>	<input type="checkbox"/>	Bailer	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PVC/Silicon Tubing	_____
<input type="checkbox"/>	<input type="checkbox"/>	Teflon/Silicon Tubing	_____
<input type="checkbox"/>	<input type="checkbox"/>	Airlift	_____
<input type="checkbox"/>	<input type="checkbox"/>	Hand Pump	_____
<input type="checkbox"/>	<input type="checkbox"/>	In-line Filter	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Press/Vac Filter	_____
		<i>milsol</i>	_____

(All That Apply at Location)
 Methanol (100%)
 25% Methanol/75% ASTM Type II water
 Deionized Water
 Liquinox Solution
 Hexane
 HNO₃/D.I. Water Solution
 Potable Water
 None

Field Analysis Data

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

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	<u>13.706</u>				
pH, units	<u>7.7</u>				
Specific Conductivity (µmhos/cm)	<u>0.630</u>				
Turbidity (NTUS)	<u>2999</u>				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	<u>10.6 mg/l</u>				

Sample Collection Requirements

Analytical Parameter	<input checked="" type="checkbox"/> If Sample Collected	Preservation Method	Volume Required	Sample Bottle I Lot Nos.
<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/>	4°C	<u>3</u> 2x40 ml	<u>[Signature]</u>
<input type="checkbox"/> SVOCs	<input type="checkbox"/>	4°C	2x1 liter AG	
<input type="checkbox"/> Metals	<input type="checkbox"/>	HNO ₃ , 4°C	1x1 liter P	
<input type="checkbox"/> Cyanide	<input type="checkbox"/>	NaOH, 4°C	1x500mLP	
<input type="checkbox"/> Nitrate/Sulfate	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	
<input type="checkbox"/> Nitrate/Phosphate	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	
<input type="checkbox"/> Pest/PCB	<input type="checkbox"/>	4°C	3x1 liter AG	
<input type="checkbox"/> TPH	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	2x1 liter AG	
<input type="checkbox"/> TOC	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	

Notes: SCREEN: 24-26
Purge water: N/A

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS DRY CLEANERS - GROUP II Site: Loehn's
 Project Number: 3612052059/0.2 Date: 10/30/06
 Sample Location ID: LCGN00801901XX Time: Start: 1650 End: 1700
 Signature of Sampler: LJR

Water Level/Well Data

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

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

Height of Water Column _____ Ft. X _____ .16 Gal/Ft. (2 in.) _____ Gal/Vol. _____ Well Integrity: _____ Yes _____ No
 _____ .65 Gal/Ft. (4 in.) _____ Prot. Casing Secure _____
 _____ 1.5 Gal/Ft. (6 in.) _____ Concrete Collar Intact _____
 _____ Gal/Ft. (_____ in.) _____ Total Gal Purged _____ Other _____

Equipment Documentation

Purging/Sampling Equipment Used:

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

Decontamination Fluids Used:

(✓ All That Apply at Location)

- _____ Methanol (100%)
- _____ 25% Methanol/75% ASTM Type II water
- ✓ Deionized Water
- ✓ Liquinox Solution
- _____ Hexane
- _____ HNO₃/D.I. Water Solution
- _____ Potable Water
- _____ None

Field Analysis Data

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

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	<u>15.60C</u>				
pH, units	<u>7.7</u>				
Specific Conductivity (µmhos/cm)	<u>0.722</u>				
Turbidity (NTUS)	<u>540</u>				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	<u>7.34mg/l</u>				

Sample Collection Requirements

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle I/Lot Nos.
✓ VOCs	✓	4°C	<u>3x</u> 40 ml	
SVOCs		4°C	2x1 liter AG	
Metals		HNO ₃ , 4°C	1x1 liter P	
Cyanide		NaOH, 4°C	1x500mLP	
Nitrate/Sulfate		H ₂ SO ₄ , 4°C	1x1 liter P	
Nitrate/Phosphate		H ₂ SO ₄ , 4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H ₂ SO ₄ , 4°C	2x1 liter AG	
TOC		H ₂ SO ₄ , 4°C	1x1 liter P	

Notes: SPROON 18-20
Purge water: N/A

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

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: REGIONS Dry Cleaners - Group II Site: Loohn's Cleaners
 Project Number: 3612052036106.21 Date: 10/30/06
 Sample Location ID: L C G W 0 0 8 0 2 5 0 1 X X Time: Start: 11:24 End: 11:44
 Signature of Sampler: [Signature]

Water Level/Well Data

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

Equipment Documentation

Purging/Sampling Equipment Used:

(<input checked="" type="checkbox"/> If Used For)			
Purging	Sampling	Equipment ID	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Peristaltic Pump	_____
<input type="checkbox"/>	<input type="checkbox"/>	Submersible Pump	_____
<input type="checkbox"/>	<input type="checkbox"/>	Bailer	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PVC/Silicon Tubing	_____
<input type="checkbox"/>	<input type="checkbox"/>	Teflon/Silicon Tubing	_____
<input type="checkbox"/>	<input type="checkbox"/>	Airlift	_____
<input type="checkbox"/>	<input type="checkbox"/>	Hand Pump	_____
<input type="checkbox"/>	<input type="checkbox"/>	In-line Filter	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Press/Vac. Filter	_____
		<u>mill stop</u>	_____

Decontamination Fluids Used:

(All That Apply at Location)

Methanol (100%)
 25% Methanol/75% ASTM Type II water
 Deionized Water
 Liquinox Solution
 Hexane
 HNO₃/D.I. Water Solution
 Potable Water
 None

Field Analysis Data

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

Purge Data	@ <u>11A</u> Gal. @ _____ Gal. @ _____ Gal. @ _____ Gal. @ _____ Gal.
Temperature, Deg. C	<u>17.30C</u>
pH, units	<u>7.9</u>
Specific Conductivity (µmhos/cm)	<u>20711</u>
Turbidity (NTUS)	<u>2999</u>
Oxidation - Reduction, +/- mv	_____
Dissolved Oxygen, ppm	<u>4.95 mg/l</u>

Sample Collection Requirements
(If Required at this Location)

Analytical Parameter	<input checked="" type="checkbox"/> If Sample Collected	Preservation Method	Volume Required	Sample Bottle I/Lot Nos.
<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/>	4°C	<u>3</u> 2x40 ml	_____
<input type="checkbox"/> SVOCs	<input type="checkbox"/>	4°C	2x1 liter AG	_____
<input type="checkbox"/> Metals	<input type="checkbox"/>	HNO ₃ , 4°C	1x1 liter P	_____
<input type="checkbox"/> Cyanide	<input type="checkbox"/>	NaOH, 4°C	1x500mLP	_____
<input type="checkbox"/> Nitrate/Sulfate	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	_____
<input type="checkbox"/> Nitrate/Phosphate	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	_____
<input type="checkbox"/> Pest/PCB	<input type="checkbox"/>	4°C	3x1 liter AG	_____
<input type="checkbox"/> TPH	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	2x1 liter AG	_____
<input type="checkbox"/> TOC	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	_____

Notes: SCREEN: 24-26'
Purge water: n/a

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: Looph's
 Project Number: 3612062059/0-2 Date: 10/30/06
3612052036/062 Time: Start: 1500 End: 1520
 Sample Location ID: LCGW01202001XX Signature of Sampler: ZMS

Water Level/Well Data

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

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

Height of Water Column X _____ .16 Gal/Ft. (2 in.) _____ Gal/Vol. _____ Well Integrity: _____ Yes _____ No
 _____ .65 Gal/Ft. (4 in.) _____ Prot. Casing Secure _____
 _____ Ft. _____ 1.5 Gal/Ft. (6 in.) _____ Concrete Collar Intact _____
 _____ Gal/Ft. (_____ in.) _____ Total Gal Purged _____ Other _____

Equipment Documentation

Purging/Sampling Equipment Used:

(<input checked="" type="checkbox"/> If Used For)			
<input checked="" type="checkbox"/> Purging	<input checked="" type="checkbox"/> Sampling	Peristaltic Pump	Equipment ID _____
<input type="checkbox"/>	<input type="checkbox"/>	Submersible Pump	_____
<input type="checkbox"/>	<input type="checkbox"/>	Bailer	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PVC/Silicon Tubing	_____
<input type="checkbox"/>	<input type="checkbox"/>	Teflon/Silicon Tubing	_____
<input type="checkbox"/>	<input type="checkbox"/>	Airlift	_____
<input type="checkbox"/>	<input type="checkbox"/>	Hand Pump	_____
<input type="checkbox"/>	<input type="checkbox"/>	In-line Filter	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Press/Vac Filter	_____

mllsct

Decontamination Fluids Used:

(All That Apply at Location)

_____ Methanol (100%)
 _____ 25% Methanol/75% ASTM Type II water
 Deionized Water
 Liquinox Solution
 _____ Hexane
 _____ HNO₃/D.I. Water Solution
 _____ Potable Water
 _____ None

Field Analysis Data

PID: Ambient Air ppm Well Mouth ppm Purge Data Collected In-line Turbid _____ Clear _____ Cloudy
 In Container Colored _____ Odor _____

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	<u>17.1°C</u>				
pH, units	<u>7.5</u>				
Specific Conductivity (µmhos/cm)	<u>0.749</u>				
Turbidity (NTUS)	<u>299</u>				
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	<u>2.41 mg/l</u>				

Sample Collection Requirements
(If Required at this Location)

Analytical Parameter	<input checked="" type="checkbox"/> If Sample Collected	Preservation Method	Volume Required	Sample Bottle iLot Nos.
<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/>	4°C	3x40 ml	<u>LCGW01202001XX</u>
<input type="checkbox"/> SVOCs	<input type="checkbox"/>	4°C	2x1 liter AG	<u>MS</u>
<input type="checkbox"/> Metals	<input type="checkbox"/>	HNO ₃ , 4°C	1x1 liter P	<u>MD</u>
<input type="checkbox"/> Cyanide	<input type="checkbox"/>	NaOH, 4°C	1x500mLP	
<input type="checkbox"/> Nitrate/Sulfate	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	
<input type="checkbox"/> Nitrate/Phosphate	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	
<input type="checkbox"/> Pest/PCB	<input type="checkbox"/>	4°C	3x1 liter AG	
<input type="checkbox"/> TPH	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	2x1 liter AG	
<input type="checkbox"/> TOC	<input type="checkbox"/>	H ₂ SO ₄ , 4°C	1x1 liter P	

Notes: SPRINK 19-21'
Purge water: N/A

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

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY RE1

Performed by B Snow Date Performed 10/31/06

Company Name MACTEC E & C Phone No. (207) 775-5401

1. Occupant

Name: Vacant
Street Address: _____
Town: _____
County: _____
Home Phone No. _____ Office Phone No. _____

2. Owner or Landlord →
(if different from above)

A. Building Construction Characteristics:

Type (circle appropriate responses): Single Family Multiple Dwelling Commercial

Ranch 2-Family
Raised Ranch Duplex
Split Level Apartment House _____ Units
Colonial Number of Floors _____
Mobile Home Other specify plaza

Building Age _____ General Description of Building Construction Material Bricks, brick, plaza, commercial, 1 floor

Is the building insulated? Yes / No How air tight is the building door leaks in front window/vent in back room

B. Basement Construction Characteristics (circle all that apply): RE1

1. Full basement, crawlspace, slab on grade, other _____
2. Basement floor: concrete, dirt, other _____
3. Concrete floor: unsealed, painted, covered; with leachum _____
4. Foundation walls: poured concrete, block, laid up stone, other _____
5. The basement is: wet, damp, dry Sump present? y / n water in sump y / n
If the basement has a moisture problem, how many times a year?

Comment: _____

6. The basement is: finished, unfinished
If finished, how many rooms?
How many used for more than 2 hours/day?
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, floor drains, etc.) _____
8. Describe how air tight the basement is:

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

<u>Hot Air Circulation</u>	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
Steam Radiation	Wood Stove
Electric Baseboard	Other (specify) <u> ?</u>

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, Electric, Wood, Coal, Solar, Other (specify) _____
3. Is the heating system's power plant located in the basement or other area: No
4. Is there air conditioning? Yes / No Central Air, or Window Units?
Specify the location _____
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return. How tight are the duct joints?

D. Potential Indoor Sources of Pollution

RE1

1. Has the house ever had a fire? Yes / No
2. Is there an attached garage? Yes / No
3. Is a vehicle normally parked in the garage? Yes / No N/A
4. Is there a kerosene heater present? Yes / No N/A
5. Is there a workshop, hobby, or craft area in the residence? Yes / No
If Yes, where and what _____
6. Is there a kitchen exhaust fan? Yes / No Where is it vented? _____
7. Is there a clothes dryer? Yes / No Where is it located? _____
Where is it Vented? _____
8. Has a new carpet been installed in the home within the last year? Yes / No
If yes, where? _____
9. Has any painting been completed in the last 6-months. Yes / No
If yes, where? _____
10. Has the house ever been fumigated? If yes describe date, type, and location of treatment. next door
11. Does anyone in the home regularly use or work in a dry cleaning service? Yes/No N/A is -> market
If Yes, explain (i.e. how often) _____
12. Does anyone in the home use solvents at work? Yes / No N/A
If yes, what solvents, and are clothes washed at home? _____
13. Use attached page to complete inventory of products used and stored in the building.
Any product that contains volatile organic compounds, or chemicals similar to the target compounds should be listed, along with PID readings.

E. Water and Sewage (Circle appropriate responses):

Source of Water:

Public Water Drilled Well Driven Well Dug Well Other(specify) _____

Do you have a private well for purposes other than drinking? Yes / No

If yes, what is it used for Dry Cleaning Services

Water Specifications:

Well Diameter _____ Grouted or Ungouted _____
Well Depth _____ Type of Storage Tank _____
Depth to Bedrock _____ Size of Storage Tank _____
Feet of Casing _____ Describe type(s) of treatment _____

Water Quality:

Taste and/or odor problems y / n If so describe _____

How long has the taste and/or odor been a present _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Other (specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

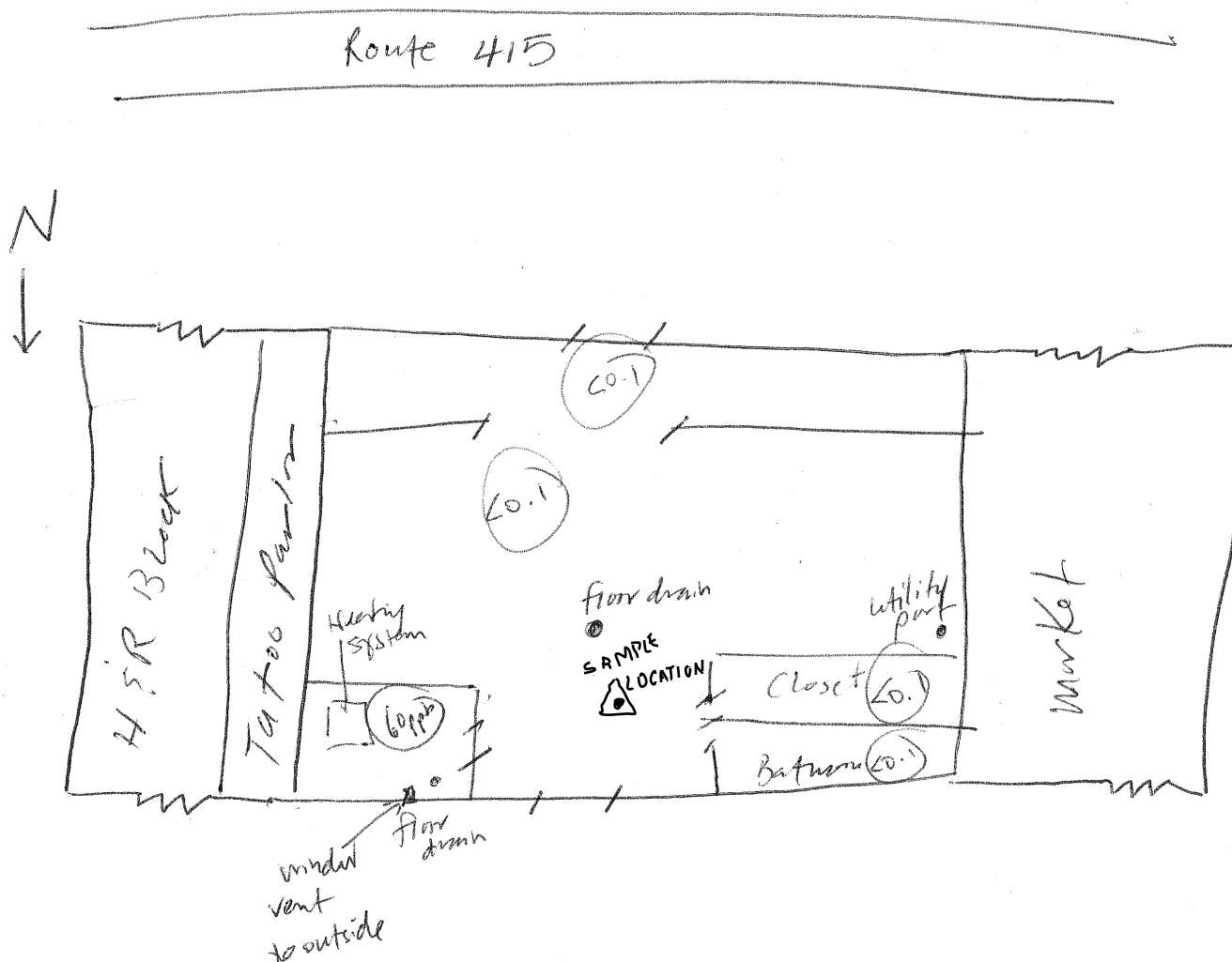
F. Plan View:

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sample locations, possible indoor air pollution sources and PID meter readings.

G. Potential Outdoor Sources of Pollution:

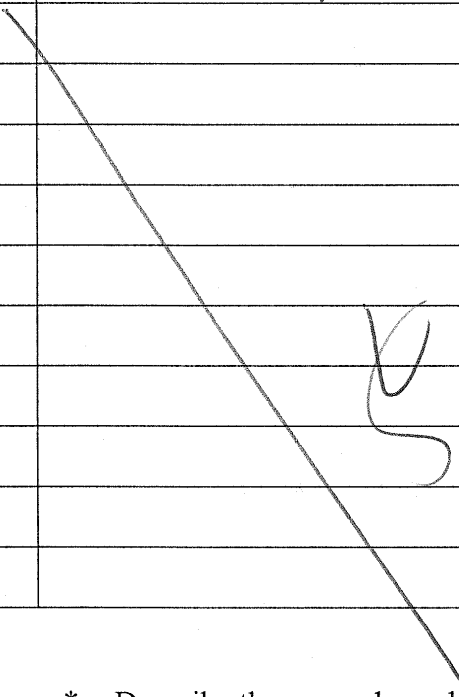
Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industry, gas stations, repair shops, etc.), outdoor sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the location of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographic map.



PRODUCT INVENTORY FORM

Make and Model of Field Instrument Used: ppb Mini Rae

Location	Product Description and Chemical Ingredients	Size (oz.)	Condition*	PID Reading	Photo (y/n)
1 st floor	Gasoline	19.1	U	710 ppm	N
	Spray foam	12 oz	U.	2000 ppb	
	Blacktop patch	240 lbs	UO	—	
	Clorox Bleach	48 oz	U	—	
	Rust-oleum	12 oz	U	2200 ppb	
	3M-RAY water proof grease	16 oz	U	25 ppb	
	Silicon spray	12 oz	U	100 ppb	
	Wire Drier	6 oz	U	210 ppb	
	Castrol Wheel grease for bearings	16 oz	U	300 ppb	
	Concrete mix.	160 lbs	UO	—	
					

* = Describe the general condition of the container as unopened (UO), used (U), or deteriorated (D).

If a Photograph replaces the hand written description of ingredients, both front and back of container must be labeled and it must be in a readable photograph.

APPENDIX D

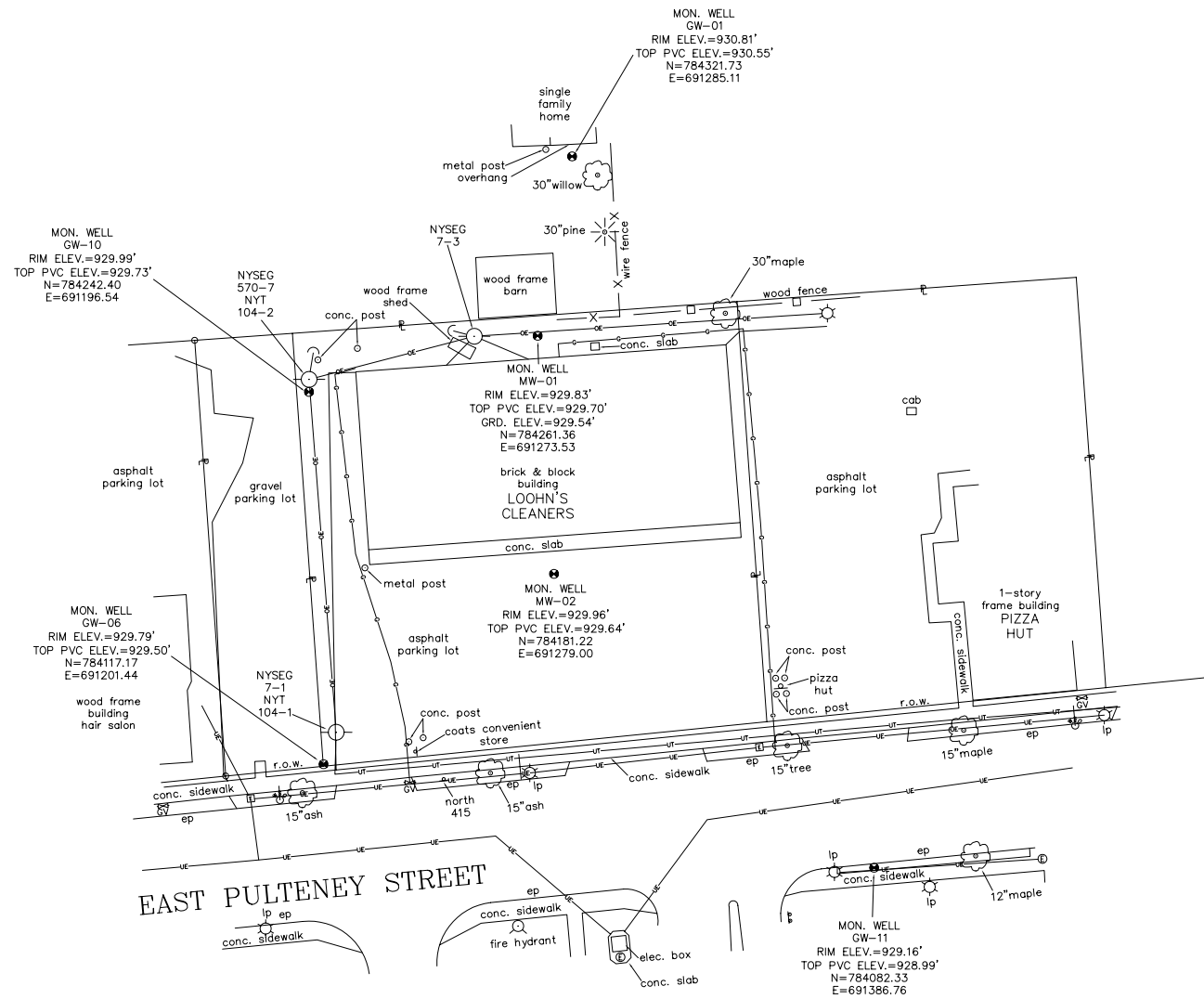
SITE SURVEY

SURVEY NOTES:

- 1.) HORIZONTAL AND VERTICAL COORDINATES ARE RELATED TO NEW YORK STATE PLANE COORDINATES NAD 83 AND NAVD 88
- 2.) PROPERTY LINES (P) AND STREET RIGHT-OF-WAYS (R.O.W.) ARE FROM TAX MAPS AND NOT FIELD VERIFIED.

LEGEND

	UTP NYSEG 6302	UTILITY POLE
	WV	WATER VALVE
		WATER SERVICE VALVE
	GV	GAS VALVE
	SC	SURVEY CONTROL POINT
	MON. WELL GW-10 RIM ELEV.= 854.58' TOP PVC ELEV.= 854.17' N=764634.7515 E=760549.2186	MON. WELL
	cab	DRAINAGE CATCH BASIN
	---	GAS SERVICE LINE
	---	OVERHEAD ELECTRIC LINE
	---	OVERHEAD TELEPHONE LINE
	---	UNDERGROUND TELEPHONE LINE
	---	WATER LINE



DATE	REVISIONS	BY

DRAWING ALTERATION
 WARNING: It is a violation of the New York State Education Law, Article 145, Section 2209, 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: _____



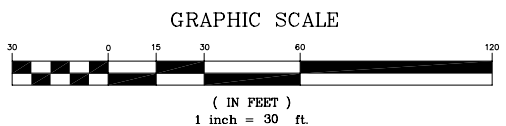
JOSEPH C. LU ENGINEERING AND SURVEYING, P.C.
 2230 Penfield Road
 Penfield, New York 14526
 (585) 377-1450
 FAX: (585) 377-1266

PROJECT:
 LOOHN'S CLEANERS
 EAST PULTENEY STREET
 CORNING, NY

CLIENT:
 MACTEC ENGINEERING, INC
 511 CONGRESS STREET
 PORTLAND, ME 04101

DRAWING TITLE:
 ENVIRONMENTAL
 MAP

DESIGNED BY:	SCALE: 1"=50'
DRAWN BY: JRH	DATE: 3-10-06
CHECKED BY: CJR	PROJECT No. 36409
SHEET 1 OF 1	DRAWING No. 1



APPENDIX E

DATA USABILITY SUMMARY REPORT

**DATA USABILITY SUMMARY REPORT
2006 SAMPLING EVENT
REGION 8 DRY CLEANERS-LOOHN'S CLEANERS
CORNING, NEW YORK**

Introduction:

Soil, water, and air samples were collected at the Loohn's Cleaners site in February of 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. A summary of the analytical results is presented in Appendix E, Tables 1.1-1.4. Samples were analyzed for the following parameters:

- Soil: Contract Laboratory Program (CLP) procedures for volatile organic compounds (VOCs)
- Water: CLP procedures for volatile organic compounds (VOCs)
- Air: EPA Method TO-15 for VOCs

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, 2000). 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 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

R = target analyte was rejected

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

Air - Volatile Organic Compounds

Initial Calibration

The initial calibration associated with samples LCGV00100601XX, LCGV00200601XX, and LCGV00300601XX had a percent relative standard deviation greater than the control limit of 30 for 1,1,1-trichloroethane (35.27). The correlation coefficient for 4-methyl-2-pentanone (0.993) was also less than the control limit of 0.995. Results for 1,1,1-trichloroethene were positive and were qualified as estimated (J). Results for 4-methyl-2-pentanone were all non-detect and were qualified as estimated (UJ). In addition, the RRF associated with 1,3-butadiene (0.021) was less than the control limit of 0.05. Results for 1,3-butadiene in all three samples were non-detect and were qualified as rejected (R).

Continuing Calibration

The continuing calibration associated with samples LCGV00100601XX, LCGV00200601XX, and LCGV00300601XX had percent differences greater than the control limit of 25 for vinyl chloride (-27.7), 1,3-butadiene (-33.3), cis-1,2-dichloroethene (-28.2), trichloroethene (-31.9), 1,4-dioxane (30.6), cis-1,3-dichloropropene (-25.7), 4-methyl-2-pentanone (58.0), 2-hexanone (52.7), tetrachloroethene (-27.3), 1,1,2,2-tetrachloroethane (-28.3), 1,3,5-trimethylbenzene (-32.9), 1,2,4-trimethylbenzene (-30.8), 1,4-dichlorobenzene (-30.9), and 1,2-dichlorobenzene (-26.1). Results for vinyl chloride, cis-1,2-dichloroethene, 1,4-dioxane, cis-1,3-dichloropropene, 4-methyl-2-pentanone, 2-hexanone, 1,1,2,2-tetrachloroethane, 1,4-dichlorobenzene, and 1,2-dichlorobenzene were all non-detect and were qualified as estimated (UJ). The results for tetrachloroethene and 1,2,4-trimethylbenzene were all positive and were qualified as estimated (J). The results for trichloroethene and 1,3,5-trimethylbenzene in sample LCGV00100601XX were positive and were qualified as estimated (J). Results for trichloroethene and 1,3,5-trimethylbenzene in samples LCGV00200601XX and LCGV00300601XX were non-detect and were qualified as estimated (UJ). The results for 1,3-butadiene were previously qualified as rejected (R) due to a low RRF value.

Laboratory Control Sample

The LCS associated with samples LCGV00100601XX, LCGV00200601XX, and LCGV00300601XX had percent recoveries for dichlorodifluoromethane (140), 1,4-dioxane (35), 4-methyl-2-pentanone (60), and 2-hexanone (55) that were outside of laboratory control limits. Results for 1,4-dioxane, 4-methyl-2-pentanone, and 2-hexanone were all non-detect and were qualified as estimated (UJ). The result for dichlorodifluoromethane was positive in sample LCGV00100601XX and was qualified as estimated (J).

Soil and Water Samples - Volatile Organic Compounds

Holding Times and Sample Collection

Samples LCMW00101701XX, and LCMW00201701XX were sampled on 1/19/06 and analyzed on 2/21/06. Since these samples were analyzed after 28 days, non-detect results were qualified as rejected (R) and positive results were qualified as estimated (J).

Internal Standards

All three internal standards had area counts below control limits in sample LCGS00201501XXRE. Compounds associated with these internal standards in sample LCGS002001501XXRE were qualified as estimated (J/UJ).

Blank Contamination

Detections of acetone (27ug/L, 10ug/L, 19ug/kg) and methylene chloride (1.9ug/kg) were reported in the trip and method blanks. An action level was calculated at ten times the detections in the blanks. Detections for acetone in samples LCGW00903001XX, LCGW00902001XA, LCGW00902501XB, LCGW01002401XX, LCGW00102601XX, LCGW00202201XX, LCGS00101201XX, and LCGS00201501XXRE were less than the action level and were

qualified as non-detect (U). Detections for methylene chloride in samples LCGS00101201XX and LCGS00201501XXRE were less than the action level and were qualified as non-detect (U).

The trip, method, and equipment blanks had detections of acetone (11ug/L, 9.0ug/L, 11ug/L) and methylene chloride (1.8ug/L, 2.0ug/L). Action levels were calculated at ten times the detection reported in the blank for both compounds. The detections for acetone and methylene chloride in samples LCGW00502201XX, LCGW00501501XA, LCGW00502201XD, LCGW00602501XX, LCGW01102601XX, and LCGW01101801XA were less than the action level and were qualified as non-detect (U). In addition, the detection for acetone in sample LCGW00601801XA was less than the action level and was also qualified as non-detect (U).

Detections of acetone (11µg/L, 3.4µg/L, 11µg/L) were reported in the trip and method blanks. An action level was calculated at ten times the detections reported in the blanks for acetone. Samples LCMW00101701XX and LCMW00201701XX had detections for acetone that were less than the action level and were qualified as non-detect (U).

Initial Calibration

The initial calibration had a percent relative standard deviation for acetone (32.0) that was greater than the control limit of 30. Results for acetone in samples LCGS00101201XX and LCGS00201501XXRE were non-detect and were qualified as estimated (UJ).

Continuing Calibration

A continuing calibration had percent differences greater than the control limit of 25 for 2-hexanone (162.0) and tetrachloroethene (48.2). Results for 2-hexanone in samples LCGW00903001XX, LCGW00902001XA, LCGW00902501XB, LCGW01002401XX, LCGW00102601XX, and LCGW00202201XX were non-detect and were qualified as estimated (J). The results for tetrachloroethene were also all non-detect and qualified as estimated (UJ), except for sample LCGW00202201XX which had a positive detection which was qualified as estimated (J).

The continuing calibration associated with samples LCGS00101201XX and LCGS00201501XXRE had percent differences greater than the control limit of 25 for trichlorofluoromethane (34.9). Results for trichlorofluoromethane in samples LCGS00101201XX and LCGS00201501XXRE were non-detect and were qualified as estimated (UJ).

The continuing calibration had a percent difference greater than the control limit of 25 for 2-hexanone (185.2). Results for 2-hexanone in samples LCGW00502201XX, LCGW00501501XA, LCGW00502201XD, LCGW00602501XX, LCGW01102601XX, LCGW01101801XA, and LCGW00601801XA were non-detect and were qualified as estimated (UJ).

A continuing calibration had a percent difference that was greater than the control limit of 25 for 2-hexanone (185.2). The results for 2-hexanone in samples LCMW00101701XX and LCMW00201701XX were non-detect and were previously qualified as rejected (R) for holding time exceedences.

Tentatively Identified Compounds

Tentatively identified compounds (TICs) were reported by the laboratory in accordance with CLP method procedures. TICs reported in samples are presented in Table 1.4. Only samples that had TICs reported are included on Table 1.4. If a sample is not listed, no TICs were reported.

TABLE 1

SDG	Sample Name	Date Collected	Method	Parameter	Type
X1613	LCGS00101201XX	2/15/06	OLM 04.2	VOC	FS
X1613	LCGS00101201XX	2/15/06	D2216	Percent Moisture	FS
X1613	LCGS00101201MS	2/15/06	OLM 04.2	VOC	MS
X1613	LCGS00101201MS	2/15/06	D2216	Percent Moisture	MS
X1613	LCGS00101201MD	2/15/06	OLM 04.2	VOC	MD
X1613	LCGS00101201MD	2/15/06	D2216	Percent Moisture	MD
X1613	LCGS00201501XX	2/15/06	OLM 04.2	VOC	FS
X1613	LCGS00201501XX	2/15/06	D2216	Percent Moisture	FS
X1613	LCGW00102601MS	2/15/06	OLM 04.2	VOC	MS
X1613	LCGW00102601MD	2/15/06	OLM 04.2	VOC	MD
X1613	LCGW00903001XX	2/15/06	OLM 04.2	VOC	FS
X1613	LCGW00902001XA	2/15/06	OLM 04.2	VOC	FS
X1613	LCGW00902501XB	2/15/06	OLM 04.2	VOC	FS
X1613	LCGW01002401XX	2/15/06	OLM 04.2	VOC	FS
X1613	LCQT001XXX01XX	2/15/06	TO-15	VOC	TB
X1613	LCGW00102601XX	2/15/06	OLM 04.2	VOC	FS
X1613	LCGW00202201XX	2/15/06	OLM 04.2	VOC	FS
X1590	LCGW00502201XX	2/16/06	OLM 04.2	VOC	FS
X1590	LCGW00501501XA	2/16/06	OLM 04.2	VOC	FS
X1590	LCGW00502201XD	2/16/06	OLM 04.2	VOC	FD
X1590	LCGW00602501XX	2/16/06	OLM 04.2	VOC	FS
X1590	LCGW00601801XA	2/16/06	OLM 04.2	VOC	FS
X1590	LCGW01102601XX	2/16/06	OLM 04.2	VOC	FS
X1590	LCGW01101801XA	2/16/06	OLM 04.2	VOC	FS
X1590	LCGV00100601XX	2/16/06	TO-15	VOC	FS
X1590	LCGV00200601XX	2/16/06	TO-15	VOC	FS
X1590	LCGV00300601XX	2/16/06	TO-15	VOC	FS
X1590	LCQT002XXX01XX	2/16/06	OLM 04.2	VOC	TB
X1590	EBGW004XXX01XX	2/16/06	OLM 04.2	VOC	EB

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 USABILITY SUMMARY REPORT
2006 SAMPLING EVENT
REGION 8 DRY CLEANERS-LOOHN'S CLEANERS
CORNING, NEW YORK**

Introduction:

Soil, water, and air samples were collected at the Loohn's Cleaners site in October and November of 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. A summary of the analytical results is presented in Appendix E, Tables 1.5-1.8. Samples were analyzed for the following parameters:

- Soil: Volatile organic compounds (VOCs) by Contract Laboratory Program (CLP) Method OLM04.2
- Water: VOCs by CLP Method OLM04.2
- Air: 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 at the reported detection limit

J = concentration is estimated

UJ = target analyte is not detected at the reported detection limit and is estimated

R = target analyte was rejected

D = result is reported from an additional dilution run

E = Detection exceeded the upper calibration range of the instrument

B = Analyte was detected in the method blank

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

Air - Volatile Organic Compounds

Initial Calibration

The initial calibration associated with samples LCSV00100101XX, LCIA00100101XX, and LCAA00100101XX had a percent difference that was greater than the control limit of 30 for trans-1,3-dichloropropene (37) and 2-hexanone (36). The results for these compounds in the samples listed above were all non-detect and were qualified as estimated (UJ).

Continuing Calibration

The continuing calibration associated with samples LCSV00100101XX, LCIA00100101XX, and LCAA00100101XX had a percent difference that was greater than the control limit of 20 for trans-1,3-dichloropropene (-22), 2-hexanone (-42), 2-butanone (-26), and 4-methyl-2-pentanone (-27). The results for these compounds in the samples listed above were qualified as estimated (J/UJ).

Matrix Spike/Matrix Spike Duplicate

The MS/MSD associated with sample LCAA00100101XX had percent recoveries for vinyl acetate (155, 145) and ethyl acetate (220, 200) that were greater than the laboratory control limit of 65-135. The results for these two compounds were positive and were qualified as estimated (J).

Water Samples - Volatile Organic Compounds

Surrogate Recoveries

Sample LCGW00801901XX had a percent recovery of the surrogate toluene-d8 (83) that was less than laboratory control limits. All results in sample LCGW00801901XX were qualified as estimated (J/UJ).

Blank Contamination

Acetone was detected in the method blank associated with samples LCGW00302001XX, LCGW00702101XX, LCGW00702501XX, and LCGW01202001XX. An action level was calculated at ten times the detection reported in the blank. Results for acetone in the samples listed above were all less than the action level and were qualified as non-detect (U).

Initial Calibration

The initial calibration associated with samples LCGW00302001XX, LCGW00302001XD, LCGW00502101XX, LCGW00702101XX, LCGW00702501XX, LCGW00801901XX, LCGW00802501XX, and LCGW01202001XX had a percent difference that was greater than the control limit of 30 for chloroethane (40). The results for chloroethane were all non-detect in the samples listed above and were qualified as estimated (UJ).

Continuing Calibration

The continuing calibration associated with samples LCGW00302001XD, LCGW00502101XX, , LCGW00801901XX, and LCGW00802501XX had percent differences that were greater than the control limit of 20 for dichlorodifluoromethane (32), chloromethane (32), vinyl chloride (32), trichlorofluoromethane (42), 1,1-dichloroethene (26), carbon disulfide (24), methyl acetate (56), and cyclohexane (23). These results were all non-detect in the samples listed above and were qualified as estimated (UJ).

The continuing calibration associated with samples LCGW00302001XX, LCGW00702101XX, LCGW00702501XX, and LCGW01202001XX had percent differences that were greater than the control limit of 20 for dichlorodifluoromethane (27), chloromethane (24), trichlorofluoromethane (30), 1,1,2-trichlorotrifluoroethane (24), 1,1-dichloroethene (23), and carbon disulfide (23).

These results were all non-detect in the samples listed above and were qualified as estimated (UJ).

Matrix Spike/Matrix Spike Duplicate

The MS/MSD associated with sample LCGW01202001XX had percent recoveries for chlorobenzene (13, 11) and 1,1-dichlorethene (64, 64) that were less than the laboratory control limit. In addition, the relative percent difference (17) between the MS and MSD in sample LCGW01202001XX was greater than the laboratory control limit. Results for these two compounds were non-detect and were qualified as estimated (UJ) in sample LCGW01202001XX

Soil Samples - Volatile Organic Compounds

Blank Contamination

Detections of acetone and methylene chloride were detected in the method blanks associated with samples LCGS00100401XX, LCGS00200401XX, LCGS00300301XX, LCGS00400701XX, LCGS00400701XD, LCGS00500201XX, and LCGS00400901XX. An action level was calculated at ten times the detection reported in the blank. Detections less than the action level were qualified as non-detect (U). Non-detect results or results greater than the action level were reported without additional qualification.

Continuing Calibration

The continuing calibration associated with samples LCGS00100401XX and LCGS00300301XX had a percent difference that was greater than the control limit of 20 for carbon disulfide (-21). The results for carbon disulfide were non-detect in both samples and were qualified as estimated (UJ).

Matrix Spike/Matrix Spike Duplicate

The MS/MSD associated with sample LCGS00100401XX had percent recoveries for chlorobenzene (5, 9) that were less than the laboratory control limit. The relative percent difference between the MS and MSD in sample LCGS00100401XX was also greater than the laboratory control limit. Since the percent recoveries for this compound were less than ten percent the result for chlorobenzene was qualified as rejected (R) in sample LCGS00100401XX.

Tentatively Identified Compounds

No Tentatively identified compounds (TICs) were detected in the samples listed below in Table 1.

TABLE 1

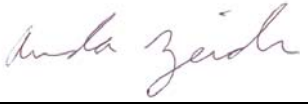
SDG	Sample Name	Date Collected	Method	Parameter	Type
X5085	LCSV00100101XX	11/1/06	TO-15	VOC	FS
X5085	LCIA00100101XX	11/1/06	TO-15	VOC	FS
X5085	LCAA00100101XX	11/1/06	TO-15	VOC	FS
X5201	LCGS00100401XX	10/31/06	D2216	VOC	FS
X5201	LCGS00100401XX	10/31/06	D2216	Percent Moisture	FS
X5201	LCGS00100401MS	10/31/06	OLM 04.2	VOC	MS
X5201	LCGS00100401MD	10/31/06	D2216	VOC	MSD
X5201	LCGS00200401XX	10/31/06	OLM 04.2	VOC	FS
X5201	LCGS00200401XX	10/31/06	OLM 04.2	Percent Moisture	FS
X5201	LCGS00300301XX	10/31/06	D2216	VOC	FS
X5201	LCGS00300301XX	10/31/06	D2216	Percent Moisture	FS
X5201	LCGS00400701XX	10/31/06	OLM 04.2	VOC	FS
X5201	LCGS00400701XX	10/31/06	OLM 04.2	Percent Moisture	FS
X5201	LCGS00400701XD	10/31/06	OLM 04.2	VOC	FD
X5201	LCGS00400701XD	10/31/06	OLM 04.2	Percent Moisture	FD
X5201	LCTB001XXX02XX	10/31/06	OLM 04.2	VOC	TB
X5201	LCGS00500201XX	10/31/06	OLM 04.2	VOC	FS
X5201	LCGS00500201XX	10/31/06	OLM 04.2	Percent Moisture	FS
X5201	LCGS00400901XX	10/31/06	OLM 04.2	VOC	FS
X5201	LCGS00400901XX	10/31/06	OLM 04.2	Percent Moisture	FS
X5201	LCGW00302001XX	10/31/06	OLM 04.2	VOC	FS
X5201	LCGW00302001XD	10/31/06	TO-15	VOC	FD
X5201	LCGW00502101XX	10/31/06	OLM 04.2	VOC	FS
X5201	LCGW00702101XX	10/31/06	OLM 04.2	VOC	FS
X5201	LCGW00702501XX	10/31/06	OLM 04.2	VOC	FS
X5201	LCGW00801901XX	10/30/06	OLM 04.2	VOC	FS
X5201	LCGW00802501XX	10/30/06	OLM 04.2	VOC	FS
X5201	LCGW01202001XX	10/30/06	OLM 04.2	VOC	FS
X5201	LCGW01202001MS	10/30/06	OLM 04.2	VOC	MS
X5201	LCGW01202001MD	10/30/06	OLM 04.2	VOC	MSD

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: December 8, 2006

QA Officer: Chris Ricardi NRCC-EAC



Date: 2/2/07 _____

Appendix E
Table 1.1: Soil VOC Results

Lab Sample Id	X1613-01		X1613-04RE	
Lab Sample Delivery Group	X1613		X1613	
Loc Name	GS-1		GS-2	
Field Sample Id	LCGS00101201XX		LCGS00201501XX	
Field Sample Date	2/15/2006		2/15/2006	
Qc Code	FS		FS	
Param Name	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	10	U	11	UJ
1,1,2,2-Tetrachloroethane	10	U	11	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	11	UJ
1,1,2-Trichloroethane	10	U	11	UJ
1,1-Dichloroethane	10	U	11	UJ
1,1-Dichloroethene	10	U	11	UJ
1,2,4-Trichlorobenzene	10	U	11	UJ
1,2-Dibromo-3-chloropropane	10	U	11	UJ
1,2-Dibromoethane	10	U	11	UJ
1,2-Dichlorobenzene	10	U	11	UJ
1,2-Dichloroethane	10	U	11	UJ
1,2-Dichloropropane	10	U	11	UJ
1,3-Dichlorobenzene	10	U	11	UJ
1,4-Dichlorobenzene	10	U	11	UJ
2-Butanone	52	U	54	UJ
2-Hexanone	52	U	54	UJ
4-Methyl-2-pentanone	52	U	54	UJ
Acetic acid, methyl ester	10	U	11	UJ
Acetone	52	UJ	54	UJ
Benzene	10	U	11	UJ
Bromodichloromethane	10	U	11	UJ
Bromoform	10	U	11	UJ
Bromomethane	10	U	11	UJ
Carbon disulfide	10	U	11	UJ
Carbon tetrachloride	10	U	11	UJ
Chlorobenzene	10	U	11	UJ
Chlorodibromomethane	10	U	11	UJ
Chloroethane	10	U	11	UJ
Chloroform	10	U	11	UJ
Chloromethane	10	U	11	UJ
Cis-1,2-Dichloroethene	10	U	11	UJ
cis-1,3-Dichloropropene	10	U	11	UJ
Cyclohexane	10	U	11	UJ
Dichlorodifluoromethane	10	U	11	UJ
Ethyl benzene	10	U	11	UJ
Isopropylbenzene	10	U	11	UJ
Methyl cyclohexane	10	U	11	UJ
Methyl Tertbutyl Ether	10	U	11	UJ
Methylene chloride	10	U	11	UJ
o-Xylene	10	U	11	UJ
Styrene	10	U	11	UJ
Tetrachloroethene	10	U	11	UJ

Table Created by: ASZ 6/1/06
Table Checked by: CRS 7/17/06

Appendix E
Table 1.1: Soil VOC Results

Lab Sample Id	X1613-01		X1613-04RE	
Lab Sample Delivery Group	X1613		X1613	
Loc Name	GS-1		GS-2	
Field Sample Id	LCGS00101201XX		LCGS00201501XX	
Field Sample Date	2/15/2006		2/15/2006	
Qc Code	FS		FS	
Param Name	Result	Qualifier	Result	Qualifier
Toluene	10	U	11	UJ
trans-1,2-Dichloroethene	10	U	11	UJ
trans-1,3-Dichloropropene	10	U	11	UJ
Trichloroethene	10	U	11	UJ
Trichlorofluoromethane	10	UJ	11	UJ
Vinyl chloride	10	U	11	UJ
Xylene, m/p	0.71	J	11	UJ

Notes:

Results reported in micrograms per kilogram (µg/kg)
Samples analyzed for VOCs by EPA Method OLM04.2

QC Codes:

FS = Field Sample

Qualifiers:

U = Result not detected at a concentration greater than the reporting limit

J = Estimated value

Appendix E
 Table 1.2: Groundwater VOC Results

Lab Sample Id	X1284-11		X1284-12		X1590-01		X1590-02		X1590-03		X1590-04		X1590-05		X1590-06		X1590-07	
Lab Sample Delivery Group	X1284		X1284		X1590		X1590		X1590		X1590		X1590		X1590		X1590	
Loc Name	GW-1		GW-2		GW-5		GW-5		GW-5		GW-6		GW-6		GW-11		GW-11	
Field Sample Id	LCMW00101701XX		LCMW00201701XX		LCGW00502201XX		LCGW00501501XA		LCGW00502201XD		LCGW00602501XX		LCGW00601801XA		LCGW01102601XX		LCGW01101801XA	
Field Sample Date	1/19/2006		1/19/2006		2/16/2006		2/16/2006		2/16/2006		2/16/2006		2/16/2006		2/16/2006		2/16/2006	
Qc Code	FS		FS		FS		FS		FD		FS		FS		FS		FS	
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,1,2-Trichloroethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,1,2-Trichloroethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,1-Dichloroethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,1-Dichloroethene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,2,4-Trichlorobenzene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,2-Dibromo-3-chloropropane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,2-Dibromoethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,2-Dichlorobenzene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,2-Dichloroethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,2-Dichloropropane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,3-Dichlorobenzene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
1,4-Dichlorobenzene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
2-Butanone		R		R		50 U		50 U		50 U		50 U		50 U		50 U		50 U
2-Hexanone		R		R		50 U		50 U		50 U		50 U		50 U		50 U		50 U
4-Methyl-2-pentanone		R		R		50 U		50 U		50 U		50 U		50 U		50 U		50 U
Acetic acid, methyl ester		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Acetone		R		R		50 U		50 U		50 U		50 U		50 U		50 U		50 U
Benzene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Bromodichloromethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Bromoform		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Bromomethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Carbon disulfide		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Carbon tetrachloride		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Chlorobenzene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Chlorodibromomethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Chloroethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Chloroform		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Chloromethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Cis-1,2-Dichloroethene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
cis-1,3-Dichloropropene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Cyclohexane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Dichlorodifluoromethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Ethyl benzene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Isopropylbenzene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Methyl cyclohexane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Methyl Tertbutyl Ether		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Methylene chloride		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
o-Xylene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Styrene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Tetrachloroethene		37 J		2.5 J		10 U		10 U		10 U		10 U		10 U		10 U		3.9 J
Toluene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
trans-1,2-Dichloroethene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
trans-1,3-Dichloropropene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Trichloroethene		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Trichlorofluoromethane		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Vinyl chloride		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U
Xylene, m/p		R		R		10 U		10 U		10 U		10 U		10 U		10 U		10 U

Notes:
 Results reported in micrograms per liter (µg/L)
 Samples analyzed for VOCs by EPA Method OLM04.2

QC Codes:
 FS = Field Sample
 FD = Field Duplicate
 TB = Trip Blank
 EB = Equipment Blank

Qualifiers:
 U = Result not detected at a concentration greater than the reporting limit
 J = Estimated value
 R = Rejected result
 B = Analyte detected in both the blank and sample

Appendix E
Table 1.2: Groundwater VOC Results

Lab Sample Id	X1590-11		X1590-12		X1613-07		X1613-08		X1613-09		X1613-10		X1613-11		X1613-12		X1613-13	
Lab Sample Delivery Group	X1590		X1590		X1613		X1613		X1613		X1613		X1613		X1613		X1613	
Loc Name	QC		QC		GW-9		GW-9		GW-9		GW-10		QC		GW-1		GW-2	
Field Sample Id	LCQT002XXX01XX	EBGW004XXX01XX	LCGW00903001XX	LCGW00902001XA	LCGW00902501XB	LCGW01002401XX	LCQT001XXX01XX	LCGW00102601XX	LCGW00202201XX									
Field Sample Date	2/16/2006	2/16/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006									
Qc Code	TB	EB	FS	FS	FS	FS	FS	FS	FS									
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.96J		10U		10U		10U		10U		10U		10U		10U		10U	
1,1,2-Tetrachloroethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,1,2-Trichloroethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,1-Dichloroethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,1-Dichloroethene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,2,4-Trichlorobenzene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,2-Dibromo-3-chloropropane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,2-Dibromoethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,2-Dichlorobenzene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,2-Dichloroethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,2-Dichloropropane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,3-Dichlorobenzene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
1,4-Dichlorobenzene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
2-Butanone	50U		50U		50U		50U		50U		50U		50U		50U		50U	
2-Hexanone	1.2J		50U		50UJ		50UJ		50UJ		50UJ		50U		50UJ		50UJ	
4-Methyl-2-pentanone	50U		50U		50U		50U		50U		50U		50U		50U		50U	
Acetic acid, methyl ester	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Acetone	9JB		11JB		50U		50U		50U		50U		27JB		50U		50U	
Benzene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Bromodichloromethane	5.2J		10U		10U		10U		10U		10U		10U		10U		10U	
Bromoform	1.5J		10U		10U		10U		10U		10U		10U		10U		10U	
Bromomethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Carbon disulfide	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Carbon tetrachloride	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Chlorobenzene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Chlorodibromomethane	4.3J		10U		10U		10U		10U		10U		10U		10U		10U	
Chloroethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Chloroform	7.5J		10U		10U		10U		10U		10U		10U		10U		10U	
Chloromethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Cis-1,2-Dichloroethene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
cis-1,3-Dichloropropene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Cyclohexane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Dichlorodifluoromethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Ethyl benzene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Isopropylbenzene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Methyl cyclohexane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Methyl Tertbutyl Ether	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Methylene chloride	1.8J		2J		10U		10U		10U		10U		10U		10U		10U	
o-Xylene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Styrene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Tetrachloroethene	10U		10U		10UJ		10UJ		10UJ		10UJ		10UJ		10UJ		10UJ	
Toluene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
trans-1,2-Dichloroethene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
trans-1,3-Dichloropropene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Trichloroethene	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Trichlorofluoromethane	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Vinyl chloride	10U		10U		10U		10U		10U		10U		10U		10U		10U	
Xylene, m/p	10U		10U		10U		10U		10U		10U		10U		10U		10U	

Notes:
Results reported in micrograms per liter (µg/L)
Samples analyzed for VOCs by EPA Method OLM04.2

QC Codes:
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank
EB = Equipment Blank

Qualifiers:
U = Result not detected at a concentration greater than the reporting limit
J = Estimated value
R = Rejected result
B = Analyte detected in both the blank and sample

Lab Sample Id	X1590-08		X1590-09		X1590-10	
Lab Sample Delivery Group	X1590		X1590		X1590	
Loc Name	GV-01		GV-02		GV-03	
Field Sample Id	LCGV00100601XX		LCGV00200601XX		LCGV00300601XX	
Field Sample Date	2/16/2006		2/16/2006		2/16/2006	
Qc Code	FS		FS		FS	
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	6.75	BJ	10.3	BJ	9.25	BJ
1,1,2,2-Tetrachloroethane	2.75	UJ	6.87	UJ	6.87	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	3.06	U	7.65	U	7.65	U
1,1,2-Trichloroethane	2.18	U	5.44	U	5.44	U
1,1-Dichloroethane	1.62	U	4.05	U	4.05	U
1,1-Dichloroethene	1.59	U	3.97	U	3.97	U
1,2,4-Trichlorobenzene	2.96	U	7.4	U	7.4	U
1,2,4-Trimethylbenzene	12.8	J	27.5	J	27	J
1,2-Dibromoethane	3.08	U	7.69	U	7.69	U
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.8	U	6.99	U	6.99	U
1,2-Dichlorobenzene	2.4	UJ	6.01	UJ	6.01	UJ
1,2-Dichloroethane	1.62	U	4.05	U	4.05	U
1,2-Dichloropropane	1.85	U	4.62	U	4.62	U
1,3,5-Trimethylbenzene	8.25	J	4.91	UJ	4.91	UJ
1,3-Dichlorobenzene	2.4	U	6.01	U	6.01	U
1,4-Dichlorobenzene	2.4	UJ	6.01	UJ	6.01	UJ
1,4-Dioxane	2.88	UJ	7.2	UJ	7.2	UJ
2-Butanone	20.7		61.3		10.3	
2-Hexanone	3.27	UJ	8.18	UJ	8.18	UJ
2-Propanol	78.5		52.8		27.5	
4-Ethyltoluene	1.96		4.91	U	4.91	U
4-Methyl-2-pentanone	3.27	UJ	8.18	UJ	8.18	UJ
Acetone	177		316		231	
Allyl chloride	1.26	U	3.15	U	3.15	U
Benzene	43		59.7		8.61	
Benzyl chloride	2.31	U	5.77	U	5.77	U
Bromodichloromethane	2.68	U	6.71	U	6.71	U
Bromoform	4.14	U	10.35	U	10.35	U
Bromomethane	1.55	U	3.89	U	3.89	U
Butadiene, 1,3-		R		R		R
Carbon disulfide	25.2		120		3.11	U
Carbon tetrachloride	2.52	U	6.3	U	6.3	U
Chlorobenzene	1.85	U	4.62	U	4.62	U
Chlorodibromomethane	3.4	U	8.51	U	8.51	U
Chloroethane	1.06	U	2.66	U	2.66	U
Chloroform	1.95	U	4.87	U	4.87	U
Chloromethane	0.82		2.04	U	2.04	
Cis-1,2-Dichloroethene	1.59	UJ	3.97	UJ	3.97	UJ
cis-1,3-Dichloropropene	1.82	UJ	4.54	UJ	4.54	UJ
Cyclohexane	114		182		3.35	U
Dichlorodifluoromethane	3.76	J	4.95	U	4.95	U
Ethyl acetate	15.5		3.6	U	22.3	
Ethyl benzene	4.68		5.64		4.34	U
Heptane	159		311		20	
Hexachlorobutadiene	4.27	U	10.67	U	10.67	U
Hexane	225		475		127	
Isocotane	1.87	U	4.66	U	4.66	U
Methyl Tertbutyl Ether	1.44	U	3.6	U	3.6	U
Methylene chloride	29.8		31.3		80.3	
o-Xylene	5.72		6.5		4.34	U
Propylene					105	
Styrene	6.13		4.25	U	4.25	U
Tetrachloroethene	39.1	J	76.7	J	5.43	J
Tetrahydrofuran	2.36	U	5.89	U	5.89	U
Toluene	93.8		95.2		23	
trans-1,2-Dichloroethene	1.59	U	3.97	U	3.97	U
trans-1,3-Dichloropropene	1.82	U	4.54	U	4.54	U
Trichloroethene	1.29	J	2.68	UJ	2.68	UJ
Trichlorofluoromethane	2.24		5.6	U	5.6	U
Vinyl acetate	1.41	U	3.52	U	3.52	U
Vinyl bromide	1.75	U	4.38	U	4.38	U
Vinyl chloride	1.02	UJ	2.56	UJ	2.56	UJ
Xylene, m/p	19.2		18.6		8.67	U

Notes:

Results reported in micrograms per cubic meter (µg/m3)

Samples analyzed for VOCs by Method TO-15

QC Codes:

FS = Field Sample

Qualifiers:

U = Result not detected at a concentration greater than the reporting limit

J = Estimated value

R = Rejected result

B = Analyte detected in both the blank and sample

Table Created by: ASZ 6/1/06

Table Checked by: BTS 2/7/07

Appendix E
Table 1.4: Groundwater VOC TICs

Matrix	WATER		WATER		WATER		WATER		WATER	
Lab Id	X1590-01		X1590-03		X1590-04		X1590-05		X1590-06	
Sample No	LCGW00502201XX		LCGW00502201XD		LCGW00602501XX		LCGW00601801XA		LCGW01102601XX	
Samp Date	2/16/2006		2/16/2006		2/16/2006		2/16/2006		2/16/2006	
Parameter	Lab Result	Lab Qual	Lab Result	Lab Qual	Lab Result	Lab Qual	Lab Result	Lab Qual	Lab Result	Lab Qual
3,6,9-Trioxa-2,10-disilaundecane,										
4,6-Dioxa-3,8-disiladecane, 5-(2,6										
Butanoic acid, 3-methyl-2-[(trimet							9.5	J		
Decane, 4-methyl-										
Ethyl Acetate										
Inosose, 2-desoxy-, O-methyloxime,	8.1	J								
Tetrasiloxane, 1,1,3,3,5,5,7,7-oct										
unknown22.90	5.9	J								
unknown22.91					7	J				
unknown27.24			7.6	J					6.4	J
unknown27.25										
unknown27.26					12	J				

Notes:

Results reported in micrograms per liter (µg/L)

Samples were analyzed for VOCs by EPA Method OLM04.2

Qualifiers:

J = Estimated value

Appendix E
Table 1.4: Groundwater VOC TICs

Matrix	WATER		WATER		WATER		WATER		WATER	
Lab Id	X1590-07		X1590-12		X1613-08		X1613-09		X1613-10	
Sample No	LCGW01101801XA		EBGW004XXX01XX		LCGW00902001XA		LCGW00902501XB		LCGW01002401XX	
Samp Date	2/16/2006		2/16/2006		2/15/2006		2/15/2006		2/15/2006	
Parameter	Lab Result	Lab Qual	Lab Result	Lab Qual	Lab Result	Lab Qual	Lab Result	Lab Qual	Lab Result	Lab Qual
3,6,9-Trioxa-2,10-disilaundecane,			8.2	J	8.3	J	6	J		
4,6-Dioxa-3,8-disiladecane, 5-(2,6	5.9	J								
Butanoic acid, 3-methyl-2-[(trimet										
Decane, 4-methyl-							7.3	J		
Ethyl Acetate							5.1	J		
Inosose, 2-desoxy-, O-methyloxime,										
Tetrasiloxane, 1,1,3,3,5,5,7,7-oct										
unknown22.90										
unknown22.91										
unknown27.24										
unknown27.25	7.2	J							6.5	J
unknown27.26										

Notes:

Results reported in micrograms per liter (µg/L)

Samples were analyzed for VOCs by EPA Method OLM04.2

Qualifiers:

J = Estimated value

Appendix E
Table 1.4: Groundwater VOC TICs

Matrix	WATER		WATER	
Lab Id	X1613-12		X1613-13	
Sample No	LCGW00102601XX		LCGW00202201XX	
Samp Date	2/15/2006		2/15/2006	
Parameter	Lab Result	Lab Qual	Lab Result	Lab Qual
3,6,9-Trioxa-2,10-disilaundecane,	5.7	J		
4,6-Dioxa-3,8-disiladecane, 5-(2,6				
Butanoic acid, 3-methyl-2-(trimet				
Decane, 4-methyl-				
Ethyl Acetate				
Inosose, 2-desoxy-, O-methyloxime,				
Tetrasiloxane, 1,1,3,3,5,5,7,7-oct				
unknown22.90				
unknown22.91				
unknown27.24			5.7	J
unknown27.25				
unknown27.26				

Notes:

Results reported in micrograms per liter (µg/L)
Samples were analyzed for VOCs by EPA Method OLM04.2
Qualifiers:
J = Estimated value

Appendix E
Table 1.5: TO-15 VOC Results

Lab Sample Id	X5085-01		X5085-02		X5085-03	
Lab Sample Delivery Group	X5085		X5085		X5085	
Loc Name	SV-01		IA-01		AA-01	
Field Sample Id	LCSV00100101XX		LCIA00100101XX		LCAA00100101XX	
Field Sample Date	11/1/2006		11/1/2006		11/1/2006	
Qc Code	FS		FS		FS	
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	3.48		1.09	U	1.09	U
1,1,2,2-Tetrachloroethane	1.37	U	1.37	U	1.37	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.53	U	1.53	U	1.53	U
1,1,2-Trichloroethane	1.09	U	1.09	U	1.09	U
1,1-Dichloroethane	0.81	U	0.81	U	0.81	U
1,1-Dichloroethene	0.79	U	0.79	U	0.79	U
1,2,4-Trichlorobenzene	1.48	U	1.48	U	1.48	U
1,2,4-Trimethylbenzene	7.26		2.75		0.98	U
1,2-Dibromoethane	1.54	U	1.54	U	1.54	U
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	U	1.4	U	1.4	U
1,2-Dichlorobenzene	1.2	U	1.2	U	1.2	U
1,2-Dichloroethane	0.81	U	0.81	U	0.81	U
1,2-Dichloropropane	4.62		0.92	U	0.92	U
1,3,5-Trimethylbenzene	2.26		1.18		0.98	U
1,3-Dichlorobenzene	1.2	U	1.2	U	1.2	U
1,4-Dichlorobenzene	1.2	U	1.2	U	1.2	U
1,4-Dioxane	1.44	U	1.44	U	1.44	U
2-Butanone	31	J	16.5	J	1.18	UJ
2-Hexanone	1.64	UJ	1.64	UJ	1.64	UJ
2-Propanol	0.98	U	21.5		3.29	
4-Ethyltoluene	2.36		1.87		0.98	U
4-Methyl-2-pentanone	4.17	J	1.64	UJ	1.64	UJ
Acetone	265	D	0.95	U	0.95	U
Allyl chloride	0.63	U	0.63	U	0.63	U
Benzene	45.9		20		3.57	
Benzyl chloride	1.15	U	1.15	U	1.15	U
Bromodichloromethane	1.34	U	1.34	U	1.34	U
Bromoform	2.07	U	2.07	U	2.07	U
Bromomethane	0.78	U	0.78	U	0.78	U
Butadiene, 1,3-	0.44	U	0.44	U	0.44	U
Carbon disulfide	9.14		0.62	U	0.62	U
Carbon tetrachloride	1.26	U	1.26	U	1.26	U
Chlorobenzene	0.92	U	0.92	U	0.92	U
Chlorodibromomethane	1.7	U	1.7	U	1.7	U
Chloroethane	0.53	U	0.53	U	0.53	U
Chloroform	1.36		0.97	U	0.97	U
Chloromethane	0.45		1.1		1.06	
Cis-1,2-Dichloroethene	4.44		0.79	U	0.79	U
cis-1,3-Dichloropropene	0.91	U	0.91	U	0.91	U
Cyclohexane	25.5		2.41		0.67	U
Dichlorodifluoromethane	3.17		4.16		2.97	
Ethyl acetate	313	D	176	D	392	DJ
Ethyl benzene	14.7		8.93		0.87	U
Heptane	57.6		15.8		0.98	
Hexachlorobutadiene	2.13	U	2.13	U	2.13	U
Hexane	34.8		1.41	U	1.41	U
Isooctane	0.93	U	2.42		0.93	U
Methyl Tertbutyl Ether	0.72	U	0.72	U	0.72	U
Methylene chloride	1.53		1.39	U	1.46	
o-Xylene	6.24		3.64		0.87	U
Propylene	1.72	U	1.72	U	1.72	U

Created By: WBC 1/29/06
Checked By: ASZ 2/5/07

Appendix E
Table 1.5: TO-15 VOC Results

Lab Sample Id	X5085-01		X5085-02		X5085-03	
Lab Sample Delivery Group	X5085		X5085		X5085	
Loc Name	SV-01		IA-01		AA-01	
Field Sample Id	LCSV00100101XX		LCIA00100101XX		LCAA00100101XX	
Field Sample Date	11/1/2006		11/1/2006		11/1/2006	
Qc Code	FS		FS		FS	
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier
Styrene	5.27		0.94		0.85	U
Tetrachloroethene	32842	ED	35.8		1.63	
Tetrahydrofuran	1.18	U	1.18	U	1.18	U
Toluene	1583	D	1114	D	7.07	
trans-1,2-Dichloroethene	0.79	U	0.79	U	0.79	U
trans-1,3-Dichloropropene	0.91	UJ	0.91	UJ	0.91	UJ
Trichloroethene	103		1.07	U	1.07	U
Trichlorofluoromethane	2.35		2.35		1.79	
Vinyl acetate	0.7	U	4.64		8.86	J
Vinyl bromide	0.88	U	0.88	U	0.88	U
Vinyl chloride	0.51	U	0.66		0.51	U
Xylene, m/p	17.4		11.7		1.73	U

Notes:

Results in microgram 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 reporting limit

J = Estimated value

D = Result was reported from a diluted analytical run

E = Result exceeds the upper calibration range of the analytical instrument

Appendix E
Table 1.6: VOC Groundwater Results

Param Name	Lab Sample Id		X5201-08		X5201-11		X5201-12		X5201-13		X5201-14	
	Lab Sample Delivery Group		X5201		X5201		X5201		X5201		X5201	
	Loc Name		QC		GW-03		GW-03		GW-05		GW-07	
	Field Sample Id		LCTB001XXX02XX		LCGW00302001XX		LCGW00302001XD		LCGW00502101XX		LCGW00702101XX	
	Field Sample Date		10/31/2006		10/31/2006		10/31/2006		10/31/2006		10/31/2006	
	Qc Code		TB		FS		FD		FS		FS	
	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	10	U	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	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U	10	UJ	10	U	10	U	10	U	10	UJ
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
1,2,4-Trichlorobenzene	10	U	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	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone	50	U	50	U	50	U	50	U	50	U	50	U
2-Hexanone	50	U	50	U	50	U	50	U	50	U	50	U
4-Methyl-2-pentanone	50	U	50	U	50	U	50	U	50	U	50	U
Acetic acid, methyl ester	10	U	10	U	10	UJ	10	UJ	10	UJ	10	U
Acetone	50	U	10	U	50	U	50	U	50	U	10	U
Benzene	10	U	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	10	U	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Carbon tetrachloride	10	U	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Chloroform	10	U	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	UJ	10	UJ	10	UJ	10	U
Dichlorodifluoromethane	10	U	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ

Appendix E
Table 1.6: VOC Groundwater Results

Param Name	Lab Sample Id		X5201-08		X5201-11		X5201-12		X5201-13		X5201-14	
	Lab Sample Delivery Group		X5201		X5201		X5201		X5201		X5201	
	Loc Name		QC		GW-03		GW-03		GW-05		GW-07	
	Field Sample Id		LCTB001XXX02XX		LCGW00302001XX		LCGW00302001XD		LCGW00502101XX		LCGW00702101XX	
	Field Sample Date		10/31/2006		10/31/2006		10/31/2006		10/31/2006		10/31/2006	
	Qc Code		TB		FS		FD		FS		FS	
	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Ethyl benzene	10	U	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene	10	U	10	U	10	U	10	U	10	U	10	U
Methyl cyclohexane	10	U	10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	10	U	10	U	10	U	10	U	10	U	10	U
Methylene chloride	10	U	10	U	10	U	10	U	10	U	10	U
o-Xylene	10	U	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	2.9	J	3.4	J	3.3	J	3.7	J		
Toluene	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	10	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane	10	U	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Vinyl chloride	10	U	10	U	10	UJ	10	UJ	10	UJ	10	U
Xylene, m/p	10	U	10	U	10	U	10	U	10	U	10	U

Notes:

Results in microgram per liter (µg/L)

Samples analyzed for VOCs by EPA Method OLM04.2

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

Appendix E
Table 1.6: VOC Groundwater Results

Param Name	Lab Sample Id		X5201-15		X5201-16		X5201-17		X5201-18	
	Lab Sample Delivery Group		X5201		X5201		X5201		X5201	
	Loc Name		GW-07		GW-08		GW-08		GW-12	
	Field Sample Id		LCGW00702501XX		LCGW00801901XX		LCGW00802501XX		LCGW01202001XX	
	Field Sample Date		10/31/2006		10/30/2006		10/30/2006		10/30/2006	
	Qc Code		FS		FS		FS		FS	
	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	10	U	10	UJ	10	U	10	U		
1,1,2,2-Tetrachloroethane	10	U	10	UJ	10	U	10	U		
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	UJ	10	UJ	10	U	10	UJ		
1,1,2-Trichloroethane	10	U	10	UJ	10	U	10	U		
1,1-Dichloroethane	10	U	10	UJ	10	U	10	U		
1,1-Dichloroethene	10	UJ	10	UJ	10	UJ	10	UJ		
1,2,4-Trichlorobenzene	10	U	10	UJ	10	U	10	U		
1,2-Dibromo-3-chloropropane	10	U	10	UJ	10	U	10	U		
1,2-Dibromoethane	10	U	10	UJ	10	U	10	U		
1,2-Dichlorobenzene	10	U	10	UJ	10	U	10	U		
1,2-Dichloroethane	10	U	10	UJ	10	U	10	U		
1,2-Dichloropropane	10	U	10	UJ	10	U	10	U		
1,3-Dichlorobenzene	10	U	10	UJ	10	U	10	U		
1,4-Dichlorobenzene	10	U	10	UJ	10	U	10	U		
2-Butanone	50	U	50	UJ	50	U	50	U		
2-Hexanone	50	U	50	UJ	50	U	50	U		
4-Methyl-2-pentanone	50	U	50	UJ	50	U	50	U		
Acetic acid, methyl ester	10	U	10	UJ	10	UJ	10	U		
Acetone	10	U	50	UJ	50	U	10	U		
Benzene	10	U	10	UJ	10	U	10	U		
Bromodichloromethane	10	U	10	UJ	10	U	10	U		
Bromoform	10	U	10	UJ	10	U	10	U		
Bromomethane	10	U	10	UJ	10	U	10	U		
Carbon disulfide	10	UJ	10	UJ	10	UJ	10	UJ		
Carbon tetrachloride	10	U	10	UJ	10	U	10	U		
Chlorobenzene	10	U	10	UJ	10	U	10	UJ		
Chlorodibromomethane	10	U	10	UJ	10	U	10	U		
Chloroethane	10	UJ	10	UJ	10	UJ	10	UJ		
Chloroform	10	U	10	UJ	10	U	10	U		
Chloromethane	10	UJ	10	UJ	10	UJ	10	UJ		
Cis-1,2-Dichloroethene	10	U	10	UJ	10	U	10	U		
cis-1,3-Dichloropropene	10	U	10	UJ	10	U	10	U		
Cyclohexane	10	U	10	UJ	10	UJ	10	U		
Dichlorodifluoromethane	10	UJ	10	UJ	10	UJ	10	UJ		

Appendix E
Table 1.6: VOC Groundwater Results

Param Name	Lab Sample Id		X5201-15		X5201-16		X5201-17		X5201-18	
	Lab Sample Delivery Group		X5201		X5201		X5201		X5201	
	Loc Name		GW-07		GW-08		GW-08		GW-12	
	Field Sample Id		LCGW00702501XX		LCGW00801901XX		LCGW00802501XX		LCGW01202001XX	
	Field Sample Date		10/31/2006		10/30/2006		10/30/2006		10/30/2006	
	Qc Code		FS		FS		FS		FS	
	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Ethyl benzene	10	U	10	UJ	10	U	10	U	10	U
Isopropylbenzene	10	U	10	UJ	10	U	10	U	10	U
Methyl cyclohexane	10	U	10	UJ	10	U	10	U	10	U
Methyl Tertbutyl Ether	10	U	10	UJ	10	U	10	U	10	U
Methylene chloride	10	U	10	UJ	10	U	10	U	10	U
o-Xylene	10	U	10	UJ	10	U	10	U	10	U
Styrene	10	U	10	UJ	10	U	10	U	10	U
Tetrachloroethene	1.4	J	5.1	J	10	U	2.5	J	10	U
Toluene	10	U	10	UJ	10	U	10	U	10	U
trans-1,2-Dichloroethene	10	U	10	UJ	10	U	10	U	10	U
trans-1,3-Dichloropropene	10	U	10	UJ	10	U	10	U	10	U
Trichloroethene	10	U	10	UJ	10	U	10	U	10	U
Trichlorofluoromethane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Vinyl chloride	10	U	10	UJ	10	UJ	10	U	10	U
Xylene, m/p	10	U	10	UJ	10	U	10	U	10	U

Notes:

Results in microgram per liter (µg/L)

Samples analyzed for VOCs by EPA Method OLM04.2

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

Appendix E
Table 1.7: VOC Soil Results

Param Name	Lab Sample Id		X5201-01		X5201-04		X5201-05		X5201-06		X5201-07	
	Lab Sample Delivery Group		X5201		X5201		X5201		X5201		X5201	
	Loc Name		GS-01a		GS-02a		GS-03a		GS-04a		GS-04a	
	Field Sample Id		LCGS00100401XX		LCGS00200401XX		LCGS00300301XX		LCGS00400701XX		LCGS00400701XD	
	Field Sample Date		10/31/2006		10/31/2006		10/31/2006		10/31/2006		10/31/2006	
	Qc Code		FS		FS		FS		FS		FD	
	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	12	U	11	U	12	U	11	U	11	U	11	U
1,1,2,2-Tetrachloroethane	12	U	11	U	12	U	11	U	11	U	11	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	12	U	11	U	12	U	11	U	11	U	11	U
1,1,2-Trichloroethane	12	U	11	U	12	U	11	U	11	U	11	U
1,1-Dichloroethane	12	U	11	U	12	U	11	U	11	U	11	U
1,1-Dichloroethene	12	U	11	U	12	U	11	U	11	U	11	U
1,2,4-Trichlorobenzene	12	U	11	U	12	U	11	U	11	U	11	U
1,2-Dibromo-3-chloropropane	12	U	11	U	12	U	11	U	11	U	11	U
1,2-Dibromoethane	12	U	11	U	12	U	11	U	11	U	11	U
1,2-Dichlorobenzene	12	U	11	U	12	U	11	U	11	U	11	U
1,2-Dichloroethane	12	U	11	U	12	U	11	U	11	U	11	U
1,2-Dichloropropane	12	U	11	U	12	U	11	U	11	U	11	U
1,3-Dichlorobenzene	12	U	11	U	12	U	11	U	11	U	11	U
1,4-Dichlorobenzene	12	U	11	U	12	U	11	U	11	U	11	U
2-Butanone	59	U	55	U	58	U	54	U	54	U	53	U
2-Hexanone	59	U	55	U	58	U	54	U	54	U	53	U
4-Methyl-2-pentanone	59	U	55	U	58	U	54	U	54	U	53	U
Acetic acid, methyl ester	12	U	11	U	12	U	11	U	11	U	11	U
Acetone	59	U	55	U	58	U	54	U	54	U	53	U
Benzene	3	J	11	U	1.4	J	11	U	11	U	11	U
Bromodichloromethane	12	U	11	U	12	U	11	U	11	U	11	U
Bromoform	12	U	11	U	12	U	11	U	11	U	11	U
Bromomethane	12	U	11	U	12	U	11	U	11	U	11	U
Carbon disulfide	12	UJ	11	U	12	UJ	11	U	11	U	11	U
Carbon tetrachloride	12	U	11	U	12	U	11	U	11	U	11	U
Chlorobenzene		R	11	U	12	U	11	U	11	U	11	U
Chlorodibromomethane	12	U	11	U	12	U	11	U	11	U	11	U
Chloroethane	12	U	11	U	12	U	11	U	11	U	11	U
Chloroform	12	U	11	U	12	U	11	U	11	U	11	U
Chloromethane	12	U	11	U	12	U	11	U	11	U	11	U
Cis-1,2-Dichloroethene	12	U	11	U	12	U	11	U	11	U	11	U
cis-1,3-Dichloropropene	12	U	11	U	12	U	11	U	11	U	11	U
Cyclohexane	12	U	11	U	12	U	11	U	11	U	11	U
Dichlorodifluoromethane	12	U	11	U	12	U	11	U	11	U	11	U

Appendix E
Table 1.7: VOC Soil Results

Param Name	Lab Sample Id		X5201-01		X5201-04		X5201-05		X5201-06		X5201-07	
	Lab Sample Delivery Group		X5201		X5201		X5201		X5201		X5201	
	Loc Name		GS-01a		GS-02a		GS-03a		GS-04a		GS-04a	
	Field Sample Id		LCGS00100401XX		LCGS00200401XX		LCGS00300301XX		LCGS00400701XX		LCGS00400701XD	
	Field Sample Date		10/31/2006		10/31/2006		10/31/2006		10/31/2006		10/31/2006	
	Qc Code		FS		FS		FS		FS		FD	
	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Ethyl benzene	3.1 J	11 U	11 U	1.2 J	11 U	0.84 J	11 U	0.65 J	11 U			
Isopropylbenzene	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U			
Methyl cyclohexane	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U			
Methyl Tertbutyl Ether	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U			
Methylene chloride	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U			
o-Xylene	3.9 J	11 U	11 U	1.3 J	11 U	0.81 J	11 U	0.66 J	11 U			
Styrene	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U			
Tetrachloroethene	7300 D	11 U	11 U	4.4 J	11 U	11 U	11 U	11 U	11 U			
Toluene	11 J	0.85 J	11 U	2 J	11 U	2.3 J	11 U	1.9 J	11 U			
trans-1,2-Dichloroethene	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U			
trans-1,3-Dichloropropene	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U			
Trichloroethene	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U			
Trichlorofluoromethane	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U			
Vinyl chloride	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U			
Xylene, m/p	5.4 J	11 U	11 U	1 J	11 U	2.4 J	11 U	2.2 J	11 U			

Notes:

Results in microgram per kilogram (µg/kg)

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 value

D = Result was reported from a diluted analytical run

R = Result was rejected during data validation

B = Analyte was detected in the method blank

Appendix E
Table 1.7: VOC Soil Results

Param Name	X5201-09		X5201-10	
	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	11	U	11	U
1,1,2,2-Tetrachloroethane	11	U	11	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	11	U	11	U
1,1,2-Trichloroethane	11	U	11	U
1,1-Dichloroethane	11	U	11	U
1,1-Dichloroethene	11	U	11	U
1,2,4-Trichlorobenzene	11	U	11	U
1,2-Dibromo-3-chloropropane	11	U	11	U
1,2-Dibromoethane	11	U	11	U
1,2-Dichlorobenzene	11	U	11	U
1,2-Dichloroethane	11	U	11	U
1,2-Dichloropropane	11	U	11	U
1,3-Dichlorobenzene	11	U	11	U
1,4-Dichlorobenzene	11	U	11	U
2-Butanone	54	U	8.1	J
2-Hexanone	54	U	55	U
4-Methyl-2-pentanone	54	U	55	U
Acetic acid, methyl ester	11	U	11	U
Acetone	54	U	100	B
Benzene	11	U	11	U
Bromodichloromethane	11	U	11	U
Bromoform	11	U	11	U
Bromomethane	11	U	11	U
Carbon disulfide	11	U	11	U
Carbon tetrachloride	11	U	11	U
Chlorobenzene	11	U	11	U
Chlorodibromomethane	11	U	11	U
Chloroethane	11	U	11	U
Chloroform	11	U	7.5	J
Chloromethane	11	U	11	U
Cis-1,2-Dichloroethene	11	U	11	U
cis-1,3-Dichloropropene	11	U	11	U
Cyclohexane	11	U	11	U
Dichlorodifluoromethane	11	U	11	U

Appendix E
Table 1.7: VOC Soil Results

	X5201-09		X5201-10	
Lab Sample Id	X5201		X5201	
Lab Sample Delivery Group	GS-05a		GS-04a	
Loc Name	LCGS00500201XX		LCGS00400901XX	
Field Sample Id	10/31/2006		10/31/2006	
Field Sample Date	FS		FS	
Qc Code	Result	Qualifier	Result	Qualifier
Param Name				
Ethyl benzene	1.9	J	11	U
Isopropylbenzene	11	U	11	U
Methyl cyclohexane	11	U	11	U
Methyl Tertbutyl Ether	11	U	11	U
Methylene chloride	11	U	11	U
o-Xylene	0.55	J	11	U
Styrene	11	U	11	U
Tetrachloroethene	11	U	11	U
Toluene	1.1	J	1.6	J
trans-1,2-Dichloroethene	11	U	11	U
trans-1,3-Dichloropropene	11	U	11	U
Trichloroethene	11	U	11	U
Trichlorofluoromethane	11	U	11	U
Vinyl chloride	11	U	11	U
Xylene, m/p	1.8	J	11	U

Notes:

Results in microgram per kilogram (µg/kg)

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 value

D = Result was reported from a diluted analytical run

R = Result was rejected during data validation

B = Analyte was detected in the method blank

Example Form I - showing CHEMTECH'S OLM 04.2 VOL Method
 Detection Limits



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	MACTEC Inc.	Date Collected:	02/16/06
Project ID:	D003826 Region 8 Dry Cleaners-Loohns MEC02060003	Date Received:	02/17/06
Customer Sample No.:	LCGW01101801XA	Lab Sample ID:	X1590-07
Test:	VOC-TCLVOA 4.3-10NP	SDG ID:	X1590
Analytical Method:	EPA OLM04.2 - VOA	% Moisture:	100.00
Result Type:		Datafile:	VF001117

CAS Number	Parameter	Results	Qualifier	Units	DL	Retention Time	DF	DIL/RE
75-71-8	Dichlorodifluoromethane	ND	U	ug/L	0.50		10	1
74-87-3	Chloromethane	ND	U	ug/L	0.50		10	1
75-01-4	Vinyl Chloride	ND	U	ug/L	0.50		10	1
74-83-9	Bromomethane	ND	U	ug/L	0.50		10	1
75-00-3	Chloroethane	ND	U	ug/L	0.50		10	1
75-69-4	Trichlorofluoromethane	ND	U	ug/L	0.50		10	1
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U	ug/L	0.50		10	1
75-35-4	1,1-Dichloroethene	ND	U	ug/L	0.50		10	1
67-64-1	Acetone	6.7	JB	ug/L	0.50		50	1
75-15-0	Carbon Disulfide	ND	U	ug/L	0.50		10	1
1634-04-4	Methyl tert-butyl Ether	ND	U	ug/L	0.50		10	1
79-20-9	Methyl Acetate	ND	U	ug/L	0.50		10	1
75-09-2	Methylene Chloride	2.0	J	ug/L	0.50		10	1
156-60-5	trans-1,2-Dichloroethene	ND	U	ug/L	0.50		10	1
75-34-3	1,1-Dichloroethane	ND	U	ug/L	0.50		10	1
110-82-7	Cyclohexane	ND	U	ug/L	0.50		10	1
78-93-3	2-Butanone	ND	U	ug/L	0.50		50	1
56-23-5	Carbon Tetrachloride	ND	U	ug/L	0.50		10	1
156-59-2	cis-1,2-Dichloroethene	ND	U	ug/L	0.50		10	1
67-66-3	Chloroform	ND	U	ug/L	0.50		10	1
71-55-6	1,1,1-Trichloroethane	ND	U	ug/L	0.50		10	1
108-87-2	Methylcyclohexane	ND	U	ug/L	0.50		10	1
71-43-2	Benzene	ND	U	ug/L	0.50		10	1
107-06-2	1,2-Dichloroethane	ND	U	ug/L	0.50		10	1
79-01-6	Trichloroethene	ND	U	ug/L	0.50		10	1
78-87-5	1,2-Dichloropropane	ND	U	ug/L	0.50		10	1
75-27-4	Bromodichloromethane	ND	U	ug/L	0.50		10	1
108-10-1	4-Methyl-2-Pentanone	ND	U	ug/L	0.50		50	1

Report of Analysis

Client:	MACTEC Inc.	Date Collected:	02/16/06
Project ID:	D003826 Region 8 Dry Cleaners-Loohns MEC02060003	Date Received:	02/17/06
Customer Sample No.:	LCGW01101801XA	Lab Sample ID:	X1590-07
Test:	VOC-TCLVOA 4.3-10NP	SDG ID:	X1590
Analytical Method:	EPA OLM04.2 - VOA	% Moisture:	100.00
Result Type:		DataFile:	VF001117

CAS Number	Parameter	Results	Qualifier	Units	DL	Retention Time	DF	DIL/RE
108-88-3	Toluene	ND	U	ug/L	0.50	10	1	
10061-02-6	t-1,3-Dichloropropene	ND	U	ug/L	0.50	10	1	
10061-01-5	cis-1,3-Dichloropropene	ND	U	ug/L	0.50	10	1	
79-00-5	1,1,2-Trichloroethane	ND	U	ug/L	0.50	10	1	
591-78-6	2-Hexanone	ND	U	ug/L	0.50	50	1	
124-48-1	Dibromochloromethane	ND	U	ug/L	0.50	10	1	
106-93-4	1,2-Dibromoethane	ND	U	ug/L	0.50	10	1	
127-18-4	Tetrachloroethene	3.9	J	ug/L	0.50	10	1	
108-90-7	Chlorobenzene	ND	U	ug/L	0.50	10	1	
100-41-4	Ethyl Benzene	ND	U	ug/L	0.50	10	1	
126777-61-2	m/p-Xylenes	ND	U	ug/L	0.50	10	1	
95-47-6	o-Xylene	ND	U	ug/L	0.50	10	1	
100-42-5	Styrene	ND	U	ug/L	0.50	10	1	
75-25-2	Bromoform	ND	U	ug/L	0.50	10	1	
98-82-8	Isopropylbenzene	ND	U	ug/L	0.50	10	1	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ug/L	0.50	10	1	
541-73-1	1,3-Dichlorobenzene	ND	U	ug/L	0.50	10	1	
106-46-7	1,4-Dichlorobenzene	ND	U	ug/L	0.50	10	1	
95-50-1	1,2-Dichlorobenzene	ND	U	ug/L	0.50	10	1	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	U	ug/L	0.50	10	1	
120-82-1	1,2,4-Trichlorobenzene	ND	U	ug/L	0.50	10	1	
109629-49-4	4,6-Dioxa-3,8-disiladecane, 5-(2,6	5.9	J	ug/L	0	0	1	TIC
	unknown	27.25	J	ug/L	0	0	1	TIC

APPENDIX F

ESTIMATED SOIL VAPOR CONCENTRATIONS

Loohns Corning Site

Estimation of the soil gas concentration at the potential source area.¹

$$C_{sg} = \frac{H * C_{soil} * \rho_b}{\theta_w + (K_d * \rho_b) + H\theta_a} * (1000)$$

Inputs:

Contaminant = PCE

H = 0.754 (dimensionless) (default¹)

K_{oc} = 364²

C_{soil} = PCE = 7.3 mg/Kg

$$C_{sg} = \frac{0.754 * 7.3 * 1.5}{0.15 + (2.184 * 1.5) + 0.754 * 0.28} * (1000)$$

$$C_{sg} = 2,270 \mu\text{g/L}$$

Converted to $\mu\text{g/M}^3 = 2,270 \mu\text{g/L} * (1000\text{L}/1 \text{M}^3)$

$$C_{sg} = 2,270,000 \mu\text{g/M}^3$$

Parameter = Definition (units)

C_{sg} = soil gas concentration ($\mu\text{g/L}$)

ρ_b = dry soil bulk density (kg/L) = 1.5 (default¹)

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%)(default¹)

θ_w = water-filled soil porosity ($L_{\text{water}}/L_{\text{soil}}$) = 0.15 (default¹)

H = dimensionless Henry's law constant

θ_a = air-filled soil porosity ($L_{\text{air}}/L_{\text{soil}}$) = n - θ_w

n = total soil porosity ($L_{\text{pore}}/L_{\text{soil}}$) = 1 - (ρ_b/ρ_s) = 0.43 (default¹)

ρ_s = soil particle density (kg/L) = 2.65 (default¹)

¹ From USEPA, 1996; Soil Screening Guidance: Users Guide; EPA/540/R-96/018; April, 1996

² From USEPA, 1990; Basic of Pump and Treat Ground-Water Remediation Technology; EPA/600/8-90/003; March, 1990