LABELLA Associates, P.C.

Engineering
Architecture
Environmental

Remedial Investigation Report

BCP Site #C828131

NYSDEC Index #B8-0705-05-08

Location:

Carriage Cleantown
1600 Penfield Road
Penfield, New York 14526

Prepared for:

Springs Land Company, LLC
P.O. Box 262
Port Gibson, New York 14537

LaBella Project No. 205237.01

June 2009
Last Revised: February 2011

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1.0 Introduction

LaBella Associates P.C. ("LaBella") prepared this Remedial Investigation (RI) Interim Remedial Measures (IRM) Report on behalf of the Springs Land Company, LLC (Springs Land) for the former Carriage Cleantown facility located at 1600 Penfield Road in the Town of Penfield, Monroe County, New York, herein after referred to as the "Site". A Project Location Map is included as Figure 1. Springs Land entered the Brownfield Cleanup Program (BCP) under volunteer status and recently purchased the property as part of a redevelopment plan.

This report outlines the work completed in accordance with the Remedial Investigation Work Plan: Supplemental Site Characterization (dated June 2005), the Supplemental RI Work Plan (dated February 2006), and the Interim Remedial Measures Work Plan (dated August 2006) which were approved by New York State Department of Environmental Conservation (NYSDEC). This report was completed in general accordance with the NYSDEC Division of Environmental Remediation (DER) BCP Guide dated May 2004 and the Draft DER-10 (*Technical Guidance for Site Investigation and Remediation*) dated December 2002.

1.1 Site Description

The Site consists of approximately 0.60 acres of land improved by an approximately 4,550 square foot building, which is currently vacant. The remainder of the Site is predominantly paved with landscaped lawn areas along the western and northern portions of the Site. The surrounding properties are commercial properties with some residential beyond. The properties directly adjacent to the Site and the occupants are indicated below:

- North – 1606 Penfield Road: Day Care Facility and Dance Studio
- East – 1610 Penfield Road: Unoccupied Automated Banking Facility
- South – Right of Way (ROW): Penfield Road (with a large parking lot for commercial plaza beyond)
- West – 1598 Penfield Road: Commercial office space with three tenants

A Site Plan (included as Figure 2), illustrates the Site boundaries and the adjacent properties.

1.2 Site History

The current building was constructed in approximately 1961 and has reportedly been operated as a dry cleaner from that time until approximately 2005. However, on-site dry cleaning operations may not have been implemented for the entire time period. A plumbing diagram (unknown date) indicated that drain lines from the building discharged to a 1,500-gallon pre-cast concrete wastewater holding tank located adjacent to the northern portion of the building. Pertinent information from the plumbing diagram is shown on Figure 3.

1.3 Previous Investigations

LaBella conducted a preliminary Phase II Environmental Site Assessment (ESA) in August 2002 at the Site as part of a potential real estate transaction. The preliminary Phase II ESA identified the presence of solvent-impaired soil and shallow groundwater at the Site in the area of the concrete holding tank. The preliminary Phase II ESA consisted of advancing nine (9) soil borings (designated B-1 through B-9) and installing one groundwater monitoring well (designated MW-1). The approximate locations of the soil borings and monitoring well are shown on Figure 3. Soil and groundwater samples were submitted for analytical testing in order to evaluate subsurface conditions.

The analytical results indicated that Tetrachloroethene (PCE) is present in soil at levels above the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 Soil Clean-up Objectives to Protect Groundwater Quality. In addition, PCE was also present above its associated 6 New York Code of Rules and Regulations (6 NYCRR) Part 703 Groundwater Standard in the shallow groundwater monitoring well installed at the Site. Based on observations made during the soil boring and sampling study, and the comparison of the analytical data to the NYSDEC standards, there appeared to be a remedial concern with regard to solvent impaired soil and groundwater in the vicinity of the 1,500-gallon pre-cast concrete wastewater holding tank located immediately north of the building.

LaBella also implemented a Passive Soil Gas Survey on August 27, 2003 to determine the presence, identity, and 'relative' concentrations of targeted contaminants along the down-gradient property lines at the Site. The soil gas survey results were used to assess whether targeted compounds may potentially be migrating off site. The soil gas survey consisted of sampling at thirteen (13) soil gas sampling locations (designated SG-1 through SG-13), which are shown on Figure 3.

The analytical results from the Passive Soil Gas Survey indicated that the highest constituent detected at the Site was PCE with lesser amounts of the PCE breakdown product trichloroethylene (TCE). Based on the analytical results, the highest levels of PCE and TCE were concentrated in the vicinity of the northwest property corner. A comprehensive Passive Soil Gas Survey Report was submitted to the NYSDEC on October 27, 2003.

1.4 Standards, Criteria and Guidelines

This section identifies the Standards, Criteria and Guidelines (SCGs) for the Site. The SCGs identified are used for the purpose of this evaluation in order to quantify the extent of contamination at the Site that may require remedial work. The SCGs are not intended to be the final site cleanup objectives. The site cleanup objectives may be defined as part of a remedial work plan and/or re-evaluated based on the BCP cleanup tracks or if a Site Specific Risk-Based Closure Assessment is performed. The SCGs for soil and groundwater are provided below.

Soil SCGs

Analytical results for soils will be compared to the Restricted Use Soil Cleanup Objectives (RUSCOs) presented in 6 NYCRR Subpart 375-6—Remedial Program Soil Cleanup Objectives (RPSCOs). Specifically, the RUSCOs for the Protection of Public Health—Commercial and the RUSCOs for the Protection of Groundwater will be used to determine the warranted extent of additional remedial work (if any) at the Site for overburden vadose zone soil. [*NOTE: Previous reports (refer to Section 1.3) compared soil analytical results to the NYSDEC Technical and Administrative Guidance Memorandum*

(TAGM) 4046 Recommended Soil Cleanup Objectives (RSCOs) and NYSDEC TAGM 4046 Soil Cleanup Objectives to Protect Groundwater Quality. Although, these standards were applicable at the time the reports were completed, since the Site is now a BCP site, the data from these reports will be compared to the Commercial and Protection of Groundwater 6 NYCRR Subpart 375-6 RPSCOs as part of the evaluation in this report.]

The SCGs for soil are shown in Table 1 below for the chlorinated volatile organic compounds (CVOCs) contaminants that are the primary contaminants for the Site.

Table 1

Remedial Investigation SCGs for Soil

Chlorinated VOCs	Subpart 375-6 Restricted Use Soil Cleanup Objective for the Protection of Public Health: Commercial (µg/Kg)	Subpart 375-6 Restricted Use Soil Cleanup Objective for the Protection of Groundwater (µg/Kg)
Tetrachloroethene (PCE)	150,000	1,300
Trichloroethene (TCE)	200,000	470
(cis) 1,2-Dichloroethene (cis-1,2-DCE)	500,000	250
(trans) 1,2-Dichloroethene (trans-1,2-DCE)	500,000	190
1,1- Dichloroethene (1,1-DCE)	500,000	330
Vinyl Chloride (VC)	13,000	20

Notes:

(1) All concentrations listed in micrograms per kilogram (µg/Kg) roughly equivalent to parts per billion (ppb)

Groundwater SCGs

The SCGs for groundwater will be the 6 NYCRR Part 703 Groundwater Standards. The Part 703 Groundwater Standards for the CVOCs at the Site are shown in Table 2.

Table 2

Remedial Investigation SCGs for Groundwater

CVOCs	NYSDEC Part 703 Groundwater Standards (µg/L)
Tetrachloroethene (PCE)	5
Trichloroethene (TCE)	5
(cis) 1,2-Dichloroethene (cis-1,2-DCE)	5
Dichloroethene (cis-1,2-DCE) (trans 1,2-DCE)	5
1,1- Dichloroethene (1,1-DCE)	5
Vinyl Chloride (VC)	2
Toluene	5

Note:
Although the NYSDEC Pert 703 Groundwater Standards are presented as the groundwater SCGs, it is expected that based on the use of the Restricted Use Soil Cleanup Objectives that an environmental easement will be put in place which will provide for a groundwater use restriction for the site

Soil Vapor SCGs

The SCGs for soil vapor will be the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Criteria as referenced in Guidance for Evaluating Soil Vapor Intrusion in the State of New York (February 2005).

2.0 Site Investigation

The RI work completed as part of this project is detailed in this section. The subsections describe the various investigation work and sampling completed for each media. The site investigation work consisted of a two phased shallow soil boring evaluation, a shallow groundwater evaluation, a deep soil and groundwater evaluation, and a soil gas evaluation. The sampling results (nature and extent of impact) are discussed in Section 4.0.

2.1 Shallow Soil Evaluation

Methodology

The shallow soil evaluation was implemented using direct-push "Geoprobe" subsurface sampling unit to advance four-foot Macrocore soil samplers into the shallow overburden soil. LaBella retained Trec Environmental, Inc. (TREC) of Spencerport, New York to conduct the Geoprobe work. A LaBella field geologist was on-site to continuously assess soils from the borings for visible impairment, olfactory indications of impairment, evidence of non-aqueous phase liquids (NAPL), and/or indication of detectable Volatile Organic Compounds (VOCs) with a Photoionization Detector (PID), collectively referred to as "evidence of impairment." Field PID readings were taken at several locations in each 4-

foot macrocore sleeve, and the maximum value was noted for each 2-foot interval. The field readings were collected from the macrocore sleeves. The drilling equipment was decontaminated prior to use, including an alconox and potable water washed, followed by a potable water rinse. In between each boring, decontamination procedures were repeated. Cuttings and decontamination water were staged on polyethylene sheeting and containerized in 55-gallon drums until disposal (refer to Section 2.6).

Fieldwork

The shallow soil evaluation was completed in two phases. The first phase of soil borings were advanced between October 27, 2005 and November 2, 2005 and consisted of a grid sampling scheme to evaluate the concrete wastewater holding tank source area. In addition, several additional borings were advanced to evaluate potential sources within the building interior. A second phase of soil borings were advanced on March 30, 2006 and April 27, 2006 to further evaluate a second source area associated with a former PCE Still historically located in the southeastern corner of the building. The shallow soil borings advanced at the Site are shown on Figure 4. The two phases of shallow soil borings are further discussed separately below:

1st Phase Soil Borings

The 1st phase of soil borings consisted of a 15 feet grid radiating outward (north) from the concrete wastewater holding tank. A total of twenty-five (25) soil borings (designated B-10 through B-34) were advanced as part of the grid. In addition, four (4) soil borings (designated B-39 through B-42) were advanced to evaluate the floor drains/drain lines within the building that discharge to the holding tank and to further define the extent of impacts from the wastewater holding tank. [*Note: Borings B-35 through B-38 were advanced as part of the shallow groundwater evaluation and are discussed in Section 2.2.*]
Soil samples from these borings were collected to evaluate for the extent of soil from the wastewater holding tank area that may exceed SCGs and hazardous waste criteria. A list of the soil samples submitted is included in Table 3 and the PID readings are also provided for each two foot interval.

Table 3

Phase 1 Shallow Soil Borings
PID Readings & Analytical Testing

Soil Boring ID	Depth and PID Readings								Analytical Testing
	0'–2'	2'–4'	4'–6'	6'–8'	8'–10'	10'–12'	12'–14'	14'–16'	
B-10	0.4	0.1	0.1	0.0	0.8	I.R.	0.0	----	NA
B-11	0.7	0.2	0.2	0.0	0.1	I.R.	----	----	NA
B-12	0.2	0.1	0.2	0.3	----	----	----	----	NA
B-13	253	I.R.	3.2	1.2	----	----	----	----	NA
B-14	35.1	4.1	31.4	9.6	2.0	I.R.	----	----	NA
B-15	0.9	0.3	4.2	1.0	0.1	0.1	----	----	NA
B-16	9.1	2.1	0.1	0.1	0.1	0.4	0.8	I.R.	NA
B-17	2.2	I.R.	1.7	0.8	2.0	6.3	2.8	I.R.	NA
B-18	1.8	1.9	0.4	3.7	1.0	I.R.	----	----	NA

Table 3 (continued)

Phase 1 Shallow Soil Borings
PID Readings & Analytical Testing

Soil Boring ID	Depth and PID Readings								Analytical Testing
	0'–2'	2'–4'	4'–6'	6'–8'	8'–10'	10'–12'	12'–14'	14'–16'	
B-19	11.7	10.4	4.3	0.3	0.4	0.1	----	----	NA
B-20	3.5	I.R.	0.7	0.5	0.7	I.R.	----	----	NA
B-21	38.7	I.R.	14.9	10.6	51.7	I.R.	0.9	I.R.	TCL VOCs (8'- 9')
B-22	143	I.R.	68.1	64.2	833	29.4	----	----	TCL & TCLP VOCs (8.8'- 9.3')
B-23	12.9	46.4	28.2	19.9	29.8	47.1	2.1	I.R.	NA
B-24	79	8.6	6.4	9.3	2.2	1.2	0.4	I.R.	NA
B-25	2.9	1.6	2.1	1.3	4.0	3.1	----	----	NA
B-26	14.6	14.4	15.2	10.0	69.1	I.R.	11.1	I.R.	TCL VOCs (9'- 10')
B-27	149	223	300	1,374	6,820	I.R.	573	I.R.	TCL & TCLP VOCs (8'- 9') TCL & TCLP VOCs (12'- 13')
B-28	51.5	72.0	37.6	35.1	134	>9,999	3,918	I.R.	TCL & TCLP VOCs (10'- 11') TCL & TCLP VOCs (12'- 13')
B-29	79.4	I.R.	5.9	1.9	2.5	I.R.	----	----	TCL VOCs (8'- 10.6')
B-30	3.9	I.R.	3.1	15	5.4	21.8	----	----	NA
B-31	5.3	11.5	20.7	8.3	511	I.R.	64.9	I.R.	TCL VOCs (9'- 10')
B-32	69.0	72.0	>9,999	4,731	3,411	I.R.	---	---	NA
B-33	63.1	I.R.	32.0	8.0	5.0	8.9	----	----	TCL VOCs (10'- 11')
B-34	113	8.4	4.1	0.7	3.1	0.9	----	----	NA
B-35	0.2	0.1	0.1	0.1	0.2	I.R.	----	----	NA
B-36	0.1	2.3	0.5	0.0	4.9	I.R.	0.3	I.R.	NA
B-37	0.2	I.R.	4.1	1.6	2.2	I.R.	19.0	I.R.	NA
B-38	0.2	0.3	0.2	0.2	0.1	I.R.	0.1	I.R.	NA
B-39	16.1	8.1	99.8	10.7	91.2	128	----	----	TCL VOCs (10'- 11.2')
B-40	21.6	18.3	52.9	24.3	98.7	39.1	----	----	TCL & TCLP VOCs (9'- 10')
B-41	223	39.7	81.8	25.6	39.2	21.3	----	----	TCL VOCs (9'- 10')
B-42	0.3	0.2	8.4	23.3	13.8	8.4	----	----	NA

Notes:
PID Readings collected using a MiniRae 2000.
TCL VOCs = Target Compound List (TCL) VOCs tested via USEPA Method 8260B.
TCLP VOCs = TCL VOCs tested via USEPA Method 8260B subsequent to extraction via USEPA Method 1311.
I.R. = Sample not collected due to insufficient recovery
---- = Boring terminated prior to this depth.

As shown, 'significant' impacts (defined as PID readings greater than 1,000 parts per million [ppm]) were observed in borings B-27 (6 to 10 feet in depth), B-28 (10 to 14 feet in depth), and B-32 (4 to 10 feet in depth) which were advanced with 8-feet to the north, northeast and southwest of the concrete wastewater holding tank, respectively.

The *Soil Boring Logs* are included in Appendix 1.

2nd Phase Soil Borings

The second phase of soil borings consisted of an additional thirteen (13) soil borings (designated B-43 through B-55) advanced within the building interior and exterior to further evaluate the extent of impacts from the former PCE Still and floor drain areas. Two additional shallow soil borings (B-44R and B-52R) were also advanced to confirm analytical results from soil borings B-44 and B-52.

Soil samples from these borings were collected to evaluate for the extent of soil that may exceed hazardous waste criteria and SCGs from the area of the former PCE Still. Samples were chosen on a worst-case basis and were kept on ice until analysis by STL Laboratories, Inc. (now Test America). STL provided ASP category B deliverable data packages. A list of the soil samples submitted is included in Table 4 and the PID readings are also provided for each two foot interval.

Table 4

Phase 2 Shallow Soil Borings
PID Readings & Analytical Testing

Soil Boring ID	Depth and PID Readings								Analytical Testing
	0'–2'	2'–4'	4'–6'	6'–8'	8'–10'	10'–12'	12'–14'	14'–16'	
B-43	0.0	0.0	0.3	0.1	0.0	0.0	5.2	I.R.	NA
B-44	4,351	3,554	239	67.4	385	49.8	117	I.R.	TCL VOCs & TCLP VOCs (1.3'- 2.3') TCL VOCs (12' - 14')
B-44R	>2,000	----	----	----	----	----	----	----	TCL VOCs (1' - 2')
B-45	1,369	820	2,512	564	515	72.9	5.4	I.R.	NA
B-46	19.6	11.9	48.3	118	117	14.9	4.6	I.R.	TCL VOCs (8'- 9')
B-47	10.0	34.7	13.1	0.7	1.0	0.0	0.2	I.R.	NA
B-48	0.8	0.5	0.2	0.0	0.0	0.0	20.4	I.R.	TCL VOCs (12'- 13.9')
B-49	12.2	10.9	3.3	0.3	1.2	0.8	10.8	I.R.	NA
B-50	38.7	48.8	16.9	1.2	4.0	0.3	8.8	I.R.	NA
B-51	64.8	47.3	54.9	17.0	37.3	16.9	1.7	I.R.	TCL VOCs (8'- 9')
B-52	0.1	0.0	6.7	113	198	578	---	---	TCL VOCs (9.8'- 10.6')
B-52R	0.1	0.0	424	96.5	371	84.0	----	----	TCL VOCs (8'- 9')

Table 4 (continued)
Phase 2 Shallow Soil Borings
PID Readings & Analytical Testing

Soil Boring ID	Depth and PID Readings								Analytical Testing
	0'–2'	2'–4'	4'–6'	6'–8'	8'–10'	10'–12'	12'–14'	14'–16'	
B-53	1.0	0.8	0.1	0.0	0.3	0.0	0.3	I.R.	NA
B-54	0.3	0.0	0.1	0.0	0.0	0.2	1.6	0.1	TCL VOCs (12'- 14.6')
B-55	1.4	0.0	0.6	0.2	0.3	0.0	---	---	NA

Notes:
PID Readings collected using a MiniRae 2000.
TCL VOCs = Target Compound List (TCL) VOCs tested via USEPA Method 8260B.
TCLP VOCs = TCL VOCs tested via USEPA Method 8260B subsequent to extraction via USEPA Method 1311.
I.R. = Sample not collected due to insufficient recovery
---- = Boring terminated prior to this depth.

As shown, 'significant' impacts (defined as PID readings greater than 1,000 ppm) was observed in boring B-44 (0 to 4 feet in depth), B-44R (0 to 2 feet in depth), and B-45 (0 to 2 feet and 4 to 6 ft in depth). The PID readings from these borings generally decreased with depth.

The *Soil Borings Logs* are included in Appendix 1.

2.2 Shallow Groundwater Evaluation

Methodology

The shallow groundwater evaluation was implemented using direct-push Geoprobe equipment to install shallow overburden groundwater monitoring wells. LaBella retained TREC to install the monitoring wells on October 27, 2005 (MW-1 through MW-5) and March 30, 2006 (MW-7 through MW-10). The shallow overburden groundwater monitoring wells were generally installed to 15-feet below the ground surface (BGS); however, due to some 'cave-ins' within the borings, the actual installation depths ranged between 10 feet and 15.7 feet BGS. Each well was completed with 10-feet of 1-inch Inside Diameter (ID), Schedule 40, 0.010-inch slotted well screen connected to an appropriate length of 1-inch ID Schedule 40 PVC well riser to complete the well. The annulus around the screen section was sandpacked with size 00N quartz sand to approximately 2-feet above the screen section. The remaining annulus was filled with a bentonite chip seal to approximately 1-feet below ground surface and then grouted to ground surface. Each well was completed with a flush mount well cover. Copies of the *Well Construction Logs* are included in Appendix 2.

The wells were developed on October 31, 2005 (MW-1 through MW-5) and April 3, 2006 (MW-7 through MW-10). Well development consisted of purging the wells using dedicated polyvinylchloride (PVC) bailers while collecting groundwater quality field indicator parameters (i.e., pH, temperature, specific conductivity, and turbidity). Well development continued until field indicator parameters stabilized for three consecutive readings and at least 3 well volumes were purged. *Monitoring Well Development Logs* are included in Appendix 3.

Prior to sampling, the wells were allowed to equilibrate for at least 48 hours. Groundwater sampling consisted of initially checking for Dense and Light Non-Aqueous Phase Liquids (DNAPL & LNAPL) with a Heron H..01L Interface meter and then purging at least 3 well volumes with PVC dedicated bailers while collecting field indicator parameters with the removal of each well volume. No dense or light non-aqueous phase liquids were observed with the Heron meter or in any of the purged water, however a slight perchloroethylene odor was noted in water from MW-9 and MW-10. The groundwater samples were collected in laboratory supplied sample jars, placed on ice in a cooler, and transported to the laboratory using standard chain-of-custody protocols.

Groundwater samples were tested for United States Environmental Protection Agency (USEPA) Target Compound List (TCL) VOCs using USEPA Method 8260B. The samples were preserved with hydrochloric acid (HCL) and ice prior to shipping. [*Note: The groundwater sample from MW-1 was analyzed by Paradigm prior to the BCP project and was not provided as an ASP Category B Deliverables data package.*] Samples from MW-2 through MW-10 were analyzed by Severn Trent Laboratories, Inc. (STL) in Buffalo, New York and the results are provided as ASP Category B Deliverables. *Monitoring Well Sampling Logs* are included in Appendix 4.

Fieldwork

The shallow groundwater evaluation consisted of installing and sampling eight shallow overburden groundwater monitoring wells (designated MW-2 through MW-5 and MW-7 through MW-10). MW-1 was part of the initial Phase II ESA for the Site and was not sampled during this phase of the investigation. In addition, during the redrilling of boring B-52, a temporary groundwater monitoring well was installed in this location and purged/sampled (designated sample B-52R-GW). The well was then removed and the boring backfilled. This sample was collected in order to further evaluate the apparent anomalous soil sample results. The locations of the shallow groundwater monitoring wells are illustrated on Figure 4. [*Note: Monitoring well MW-6M & MW-6D were installed and sampled as part of the deep groundwater evaluation (refer to Section 2.3).*]

Initially, four (4) monitoring wells (designated MW-2 (B-37), MW-3 (B-35), MW-4 (B-36), and MW-5 (B-38)) were installed along the northern, eastern, and western property lines of the Site during the Phase I Soil Boring program on October 27 & 28, 2005 to evaluate the potential for groundwater contaminants to migrate off-site. These wells were developed on October 31, 2005 and sampled on November 2, 2005. However, due to a laboratory error, the samples were not analyzed within holding time. As such, these wells were resampled on November 21, 2005. Well sampling logs for both sampling events are included in Appendix 4.

The remaining four (4) shallow overburden groundwater monitoring wells (designated MW-7 (B-43), MW-8 (B-49), MW-9 (B-44), and MW-10 (B-47)) were installed within and immediately northwest of the Site building on March 30, 2006 as part of the second phase of soil borings completed at the Site. These wells were developed on April 3, 2006 and sampled on April 5, 2006.

[Note: Monitoring Well MW-1 was not sampled as part of the RI since this well was damaged sometime between the August 2002 Phase II ESA and the RI work. The replacement of this well will be addressed in the remedial design.]

2.3 Deep Soil and Groundwater Evaluation

Due to the potential for the denser chlorinated solvents to 'sink', a deep soil and groundwater evaluation was conducted in order to evaluate the vertical extent of contamination at the Site.

Methodology

The deep soil and groundwater evaluation was implemented by advancing one deep soil boring directly adjacent to the concrete wastewater holding tank source area (i.e., the area with the highest detected concentrations of CVOCs). The location of the deep boring is illustrated on Figure 4. [*Note: The Supplemental RI Work Plan indicated that two deep soil borings would be advanced; however, based on field observations the second deep boring did not appear necessary. As such, LaBella obtained verbal approval from NYSDEC to only advance the one soil boring and monitoring well.*]

A truck-mounted rotary drill rig was used to advance 6.25-inch ID hollow stem augers (HSAs). Split-spoon soil samples were collected during advancement of the soil boring to evaluate the soil types for any confining layers and for evidence of impairment. Soil samples were collected on a worst-case basis as determined by evidence of impairment (i.e., PID readings, visual and olfactory observations). A LaBella field geologist was on-site to continuously assess soils from the boring. Samples were kept on ice in coolers and submitted to Paradigm for analysis.

Subsequent to terminating the boring (based on field observations and NYSDEC approval), a "nested pair" of two (2) groundwater monitoring wells was installed within the resulting borehole in order to evaluate potential impacts to groundwater at several depths. The intent of this work was to evaluate for dense NAPL (DNAPL) and/or significant contamination at depth that would warrant remedial actions.

Subsequent to installation, the wells were developed. Well development consisted of purging the wells while collecting groundwater quality field indicator parameters (i.e., pH, temperature, specific conductivity, and turbidity). Well development continued until field indicator parameters stabilized for three consecutive readings and at least 3 well volumes were purged. *Monitoring Well Development Logs* are included in Appendix 3.

Prior to sampling, the wells were allowed to equilibrate for a minimum of at least 48 hours. Groundwater sampling consisted of implementing passive diffusion bag samplers in order to discretely sample from the well screen interval. Upon retrieval, the diffusion bag samplers were opened, and the contained water was transferred to laboratory supplied bottlewear. Groundwater samples were tested for TCL VOCs using USEPA Method 8260B. The samples were preserved with hydrochloric acid (HCL) and ice and shipped to STL.

Fieldwork

The deep boring and monitoring well installation work was conducted between February 20 and 22, 2006. Headspace PID readings were taken in ziplock bags. Since the previous work conducted at the Site (i.e. soil borings B-2 and B-26) had generally characterized the 'top' 15-feet of soil at this location, one split-spoon soil sample was collected every 5-feet for the initial 15-feet. Continuous split-spoon soil sampling was conducted from 15 feet to 42 feet after which depth split-spoon soil samples were again collected every 5 feet to a depth of 70 feet BGS due to sampling complications from 'running sand'.

Split-spoon soil samples were also collected continuously from 70 feet to 74 feet at which time the boring was terminated. The boring was terminated since evidence of significant impairment was not encountered and the soil type appeared to be changing. Specifically, soil type from the ground surface to approximately 70 feet predominantly consisted of sand; however, at 70 feet BGS the predominant soil type consisted of SILT with little very fine-grained Sand at 70-feet BGS followed by coarse to fine-grained GRAVEL and SILT & CLAY at 71-feet BGS. In addition, at 73.1 feet BGS, shale was encountered. Due to this apparent confining layer and the absence of significant impacts, the boring was terminated.

Soil samples from the deep boring were collected to evaluate for significant impacts to the deep soil that would require remedial action. A list of the soil samples submitted to Paradigm for analysis is provided in Table 5 below along with the PID readings for each two-foot interval sampled.

Table 5

Deep Soil Boring
PID Readings & Analytical Testing

MW-6	PID Reading	Analytical
4'–6'	4.6	NA
8'–10'	81.0	NA
14'–16'	7.9	TCL VOCs (14'- 14.7')
16'–18'	8.2	NA
18'–20'	0.2	NA
20'–22'	0.5	TCL VOCs (20'- 21.1')
22'–24'	0.0	NA
24'–26'	0.3	NA
26'–28'	0.0	NA
28'–30'	0.0	NA
30'–32'	0.0	NA
32'–34'	0.0	NA
34'–36'	0.0	NA
36'–38'	0.0	NA
38'–40'	0.0	NA
40'–42'	0.0	NA
45'-47'	0.0	NA
50'-52'	0.0	NA
55'-57'	0.0	NA
60'-62'	0.3	NA
65'-67'	3.8	TCL VOCs (65'- 66.4')
70'-72'	1.8	NA
72'-74'	0.1	NA

Notes:
PID Readings collected using a MiniRae 2000.
TCL VOCs = Target Compound List (TCL) VOCs tested via USEPA Method 8260B.

As shown in Table 5, elevated PID readings, defined as greater than 1 ppm, were not detected between 18 feet and 62 feet BGS. PID readings slightly above background was detected at depths of 65 feet to 67 feet and 70 feet to 72 feet. Soil samples from three depths including 65 feet to 66.4 foot interval were submitted to Paradigm for analytical testing in order to evaluate the vertical extent of PCE contamination greater than SCGs.

The deep groundwater monitoring well cluster consisted of installing two 1-inch groundwater monitoring wells. The 'deep' well (designated MW-6D) consisted of a 10 feet of 1-inch ID Schedule 40, PVC 0.010-inch slotted screened section installed between 62 feet and 72 feet in depth and the 'medium depth' well (designated MW-6M) consisted of 10 feet of 1-inch ID Schedule 40, PVC 0.010-inch slotted screen section installed between 30 feet and 40 feet in depth. Each well screen was manifolded to an appropriate length of 1-inch ID Schedule 40 PVC well riser to complete the well. The annulus around the screened sections was sandpacked with size 00N quartz sand to approximately 2-feet above and below each screened section. The annulus between the sand packs (i.e., between approximately 42.5 feet and 60 feet BGS) was filled with a bentonite chip seal. [*Note: The bentonite seal between the well screen/sand pack sections was placed in order facilitate two discrete groundwater sampling depths.*] In addition, the annulus above the upper sand pack was sealed with bentonite chips from about 25.2 feet to 28 feet BGS. A cement/bentonite grout was used to finish the wells along with a flush mount well cover. A *Well Construction Log* for MW-6M and MW-6D is included in Appendix 2.

The deep monitoring wells were developed on February 23, 2006 and allowed to equilibrate for at least 48 hours prior to sampling. Prior to development, the wells were evaluated for DNAPL using a Heron H.01L interface meter. No NAPL was noted with the Heron meter or observed in purged water during development. The groundwater sampling for these deep monitoring wells was accomplished by using passive diffusion bag samplers (24" long, 1.25" wide) in order to obtain discrete samples from two depths (33' and 65' BGS). As such, when installed the prefilled and weighted diffusion bag samplers were lowered into the monitoring wells using measured/pre-cut nylon rope in order to set the diffusion bag into the middle of the screened section. The samplers were deployed on February 27, 2006 and retrieved on March 13, 2006. The liquid within the diffusion bags was transferred to laboratory supplied 40 milliliter (ml) sampling bottles and preserved with HCL acid. The bottles were sent under chain-of-custody control in ice packed coolers to STL for analytical testing and the results were provided in ASP Category B deliverables data package.

2.4 Soil Gas Evaluation

The purpose of the soil gas evaluation was to determine if the impacted subsurface soils and groundwater have impacted soil gas on the adjacent property and was used as part of the Qualitative Exposure Assessment. The RI Work Plan initially proposed that soil gas sampling points be installed in the same areas as shallow monitoring wells MW-2, MW-3 and MW-4; however, based on the work completed as part of this RI the locations of the soil gas sampling points were revised. This modification to the sampling points was discussed with NYSDEC and NYSDOH in a January 6, 2006 meeting. The final approved soil gas sampling locations (designated SG-15 through SG-17) installed along the western property line and on the parcel adjacent to the west of the Site are shown on Figure 4.

Methodology

The soil gas sampling points were installed by TREC using direct-push Geoprobe equipment. Each soil gas sampling point was installed to approximately 4 feet BGS and utilized stainless steal sampling probes with ¾-feet screened sections between 3.25 feet and 4 feet BGS. The screened sections were backfilled with glass beads to create a sampling zone. The soil vapor probes were sealed above the sampling zone with a bentonite slurry to the protective casings which were grouted in place to minimize infiltration of water or outdoor air and to prevent damage to the soil gas point. *Soil Boring Logs* for the three soil vapor sampling points are included in Appendix 1. *Soil Gas Sampling Probe Construction Logs* are included in Appendix 5.

Subsequent to installation, the probes were allowed to equilibrate for at least 24 hours prior to purging and sampling. Purging consisted of removing one to three probe volumes (i.e., the volume of the sample probe and riser tube/pipe) in order to ensure that the samples collected were representative of soil gas conditions. During purging of the sample point, a tracer gas evaluation was also conducted. The tracer gas evaluation was used to verify the integrity of the soil gas probe seal. Butane was the tracer gas used for this study. An enclosure was constructed around the soil gas sampling point (PVC piping) and sealed into the bentonite seal within the flush mount casing. Subsequently, the enclosure was enriched with the tracer gas. The purged soil gas was then tested for the presence of the tracer gas.

The soil gas samples were collected using 1-liter summa canisters with laboratory calibrated regulators to ensure the flow rate during purging did not exceed 0.02 liters per minute (L/min) in order to minimize outdoor air infiltration. The Summa Canister were connected to the soil gas sampling point via polyethylene tubing. The soil gas samples were collected over the same general time period and in the same manner at all locations to minimize possible discrepancies.

Subsequent to the completion of soil gas sampling, the samples were sent under chain-of-custody control to Paradigm for testing. The samples were tested for VOCs using USEPA Method TO-15.

At the time of sampling, the following information was documented on sampling log sheets (included in Appendix 6):

- weather conditions (e.g., precipitation, outdoor temperature, barometric pressure, wind speed and direction) should be noted for the past 24 to 48 hours;
- any pertinent observations should be recorded, such as odors and readings from field instrumentation;
- sample identification;
- date and time of sample collection;
- sampling depth;
- identity of sampler(s);
- sampling methods and devices;
- purge volumes;
- volume of soil vapor extracted;
- the vacuum before and after samples are collected;
- apparent moisture content (dry, moist, saturated, etc.) of the sampling zone; and,
- chain-of-custody protocols used to track samples from sampling point to analysis.

Fieldwork

The three soil gas sampling points (designated SG-15, SG-16, and SG-17) were installed on March 30, 2006. The locations of the soil gas sampling points are shown on Figure 4. The soil gas sampling points were sampled on May 25, 2006. Initially, the tracer gas evaluation was conducted in order to confirm a representative sample. The tracer gas used was butane gas. The sampling enclosure was enriched with butane prior to purging the soil gas probe. A PID was used to evaluate for tracer gas (or other constituents) in the purged soil gas. [*Note: Prior to conducting the tracer gas evaluation, the PID was tested for reaction to the tracer gas in order to ensure the PID would register for butane. PID readings of 45 to 109 ppm were observed during this test.*] The purged soil gas did not detect PID readings greater than 0.6 ppm. As such, the seal appeared to be adequate and the soil gas sampling proceeded.

Each soil gas sample was collected over a 6-hour period using the laboratory supplied, pre-calibrated regulators. Vacuum gauges installed on each Summa Canister were monitored to ensure that the sample was collected slowly over the sampling period. Two field problems occurred during the soil gas sampling work. Both problems were rectified and sampling completed. The first problem encountered was the regulator for sample SG-16 did not draw for the first 90 minutes of sampling. LaBella contacted the laboratory and it was determined that the regulator should be removed, cleaned, and replaced. Subsequent to completing this, the canister/regulator began operating properly and the sample was collected. The second problem was the regulator for sample SG-17 did not appear to be working partially through the sampling based on monitoring of the vacuum gauge. Specifically, the vacuum gauge did not show an increase in pressure for three consecutive readings over a 30-minute interval. As such, the laboratory was contacted and a replacement Summa Canister and regulator with vacuum gauge was mobilized to the Site. Since this sample was started at a later time, this sample was collected over a four hour period and no problems were noted with this re-sample.

2.5 Quality Assurance/Quality Control

The quality assurance/quality control (QA/QC) procedures identified in the Work Plan were implemented during the fieldwork completed as part of the RI. The general QA/QC procedures included: drilling techniques; soil, groundwater and soil gas sampling procedures; field equipment calibration procedures; decontamination procedures, etc.

In addition to the field procedures/techniques, QA/QC testing was also conducted by the laboratory. Specifically, four trip blank samples were submitted for analytical testing as part of the soil and groundwater sampling. The results of the trip blank samples are included with the laboratory data packages. VOCs were detected in three of the four trip blank samples; however, the concentrations detected were only slightly above the laboratory detection limits or estimated values that were below the reported laboratory detection limits. As such, it does not appear that the results of the trip blank data affect the reported laboratory data for the soil and groundwater samples.

The laboratory reports were provided in Analytical Services Protocol Category B Deliverables. The laboratory data is being submitted as a separate package.

2.6 Investigation Derived Waste

The soil boring and groundwater sampling work resulted in generating approximately three (3) drums of soil cuttings and two (2) drums of purge waters from well development and purging activities. The soil cuttings and purge waters were disposed of as part of the Interim Remedial Measure (IRM) soil removal.

3.0 Physical Characteristics of Site

3.1 Geology

The geology of the Site generally consists of medium to fine-grained SAND beneath the surface materials (i.e., topsoil, asphalt or building floor slab) for the uppermost 4 feet, with medium to very fine-grained SAND with some to no Silt and trace amounts of Clay and Gravel between 4 feet and up to 12 feet BGS. Below 12 feet BGS soils predominantly consisted of medium to very fine-grained SAND with some to no Silt with occasional Gravel until 70 feet BGS at which depth SILT followed by Coarse to fine-grained GRAVEL and SILT & CLAY were encountered. Shale mixed with fine-grained SAND with little Silt was encountered from 72.4 feet BGS to 74-feet BGS at which depth the boring was terminated.

3.2 Hydrogeology

The shallow overburden groundwater flow direction was initially evaluated based on the monitoring wells installed as part of the first phase of soil boring. The groundwater flow direction was based on static water levels collected from surveyed monitoring wells MW-2 through MW-5 on November 2, 2005 and indicated a groundwater flow to the northwest (i.e., from the Site towards the rear of the 1598 Penfield Road parcel). The static water levels, casing well elevations and calculated groundwater elevations are provided in Appendix 7. Subsequent to installation of the second phase of borings/wells, a complete round of static water levels was collected on April 28, 2006 to further evaluate the groundwater flow direction based on all eight (8) shallow overburden wells installed at the Site as part of the RI work (i.e., MW-2 through MW-5 and MW-7 through MW-10). [*Note: The groundwater elevation for MW-10 appeared anomalously low and as such, this groundwater elevation was not used in the groundwater flow contouring.*] The static water levels and calculated groundwater elevations are provided in Appendix 7. The groundwater flow direction based on the April 28, 2006 data generally confirmed the groundwater flow direction to the northwest with a slight northern trend also. Groundwater contours for the November 2, 2005 and April 28, 2006 data are illustrated on Figure 6.

3.3 Demography, Land Use and Water Use

The Site is surrounded by commercial properties and the area is generally a commercial area. However, a residential townhouse complex is located to north-northwest beyond the immediately adjacent parcels. The area is zoned for commercial use and drinking water for the area is supplied by the municipality. Irondequoit Creek (a surface water) is located over 600 feet to the northwest and west of the Site.

4.0 Nature and Extent of Impact

The nature and extent of impacts is discussed in this section based on the analytical data and field observations. The nature and extent of impacts are separated into shallow soil impacts (vadose zone and saturated zone), shallow groundwater impacts, deep soil impacts, deep groundwater impacts and soil gas impacts.

4.1 Shallow Soil Sample Results

As shown in Table 4 in Section 2.1, (13) soil samples collected for the first phase of shallow soil borings were analyzed for TCL VOCs using USEPA Method 8260B. The intent of these soil samples was to evaluate the horizontal and vertical extent of soil impacted with PCE and breakdown products. Soil samples were submitted from several "worst case" locations to evaluate for potential hazardous waste and from areas anticipated to be below the hazardous waste criteria and/or SCGs. The sampling results for total VOCs were compared to the SCGs identified in Section 1.4. In addition, to the samples tested for total VOCs, six soil samples were also tested for Toxicity Characteristic Leachate Procedure (TCLP) VOCs in order to evaluate for hazardous waste characteristics and for 'Contained-In Criteria'. Table 6 shows the results from the initial sampling and these results are illustrated on Figure 5.

Table 6

Phase I Shallow Soil Samples
Summary of Detected Volatile Organic Compounds
Results in micrograms per Kilogram (ug/Kg) or about parts-per-billion (ppb)

Parameter	Sample Location and Depth													Subpart 375-6 Remedial Program Soil Cleanup Objectives for the Protection of Public Health: Commercial Use [1]	Subpart 375-6 Remedial Program Soil Cleanup Objectives for the Protection of Groundwater[1]	Hazardous Waste Criteria Toxicity Characteristic[2]
	B-21	B-22	B-26	B-27	B-27	B-28	B-28	B-29+	B-31	B-33+	B-39	B-40	B-41			
	(8'-9')	(8.8'-9.3')	(9'-10')	(8'-9')	(12'-13')	(10'-11')	(12'-13')	(8'-10.6')	(9'-10')	(10'-11')	(10'-11.2')	(9'-10')	(9'-10')			
Total Volatiles*																
Tetrachloroethene (PCE)	**4,800** D	**4,300** D	**1,400** D	**34,000** D	**810** D	**43,000** D	**54,000** E	84 DJ	150 D	60 DJ	**7,900** D	460 D	**530** D	150,000	1,300	N/A
Trichloroethene (TCE)	60	32	69	53	17	63	38	15	7 DJ	76	**4,500** D	140	170	200,000	470	N/A
cis-1,2-Dichloroethene (DCE)	41	7	16	6	6	33	14	46	<6	34	**2,100** D	40	**75** D	500,000	250	N/A
trans-1,2-DCE	<5	<5	<5	<6	<6	<6	<6	<6	<6	2 J	86	5 J	2 J	500,000	190	N/A
Vinyl Chloride (VC)	<11	<11	<10	<12	<12	<11	<11	<12	<11	<12	**50**	<12	<12	13,000	20	N/A
1,1-DCE	<5	<5	<5	1 J	<6	<6	<6	<6	<6	<6	6	<6	<6	500,000	330	N/A
1,1,1-Trichloroethane (TCA)	<5	<5	<5	31	<6	<6	<6	<6	<6	<6	<6	<6	<6	500,000	680	N/A
Carbon Disulfide	1 J	13	9	<6	6	2 J	2 J	3 J	<6	<6	4 J	<6	<6	NL	NL	N/A
Methylcyclohexane	<5	1 J	<5	<6	<6	<6	1 J	<6	<6	<6	<6	<6	<6	NL	NL	N/A
Ethylbenzene	<5	<5	<5	3 J	<6	<6	<6	<6	<6	<6	<6	<6	<6	390,000	1,000	N/A
Isopropylbenzene	<5	<5	<5	25	<6	3 J	11	<6	<6	<6	<6	<6	<6	NL	NL	N/A
Total Xylenes	<16	<16	<16	9 J	<18	<17	5 J	<18	<17	<17	4 J	<18	<18	500,000	1,600	N/A
Methylene Chloride	<5	<5	<5	<6	<6	<6	<6	<6	25 DJ	<6	<6	6	<6	500,000	50	N/A
TCLP Volatiles**																
Tetrachloroethene (PCE)	NA	400	NA	28,000	83	960	2,800	NA	NA	NA	NA	65	NA	N/A	N/A	700
Trichloroethene (TCE)	NA	<50	NA	5.8 J	<50	<50	<50	NA	NA	NA	NA	6.6 J	NA	N/A	N/A	500

Notes:
VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B

(1) = 6 New York Code of Rules and Regulations (NYCRR) Subpart 375-6 Remedial Program Soil Cleanup Objectives
(2) = Characteristic of Hazardous Waste Contaminant Concentration for Toxicity listed in 6 NYCRR Part 371.3 (e), used for disposal criteria.
(3) = Sediment action level listed in NYSDEC TAGM 3028 "Contained-In Criteria" dated November 30, 1992, used for disposal criteria.
(4) = Groundwater action level listed in NYSDEC TAGM 3028 "Contained-In Criteria" dated November 30, 1992, used for disposal criteria.

* =Sample results in Micrograms per Kilogram (µg/Kg) or Parts per Billion (ppb).
** =Sample results in micrograms per Liter (µg/L) or ppb.
TCLP = Sample tested for VOCs subsequent to a Toxicity Characteristic Leachate Procedure (TCLP) extraction.
NA = Sample not analyzed.

<5 = Constituent not detected above the reported laboratory detection limit shown.
J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
B =This flag is used when the analyte is found in the associated blank, as well as in the sample
D = This flag identifies all compounds identified in an analysis at the secondary dilution factor.
E = This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
NL = A value is not listed in NYCRR Subpart 375-6 for these compounds.
4,800 = Bold type denotes a detected concentration that exceeds Subpart 375-6 RPSCOs for the Protection of Groundwater.
= Green highlight denotes a concentration that exceeds the Characteristic Hazardous Waste Contaminant Concentration for Toxicity.
+ = Sample analyzed outside of the VOC holding time.

As shown in Table 6, nine (9) of the thirteen (13) Phase I soil samples tested for total VOCs detected concentrations of VOCs greater than their associated RUSCOs for the Protection of Groundwater. As such, it is anticipated that these areas will require evaluation as part of any overall site remedy. Three (3) soil samples collected from borings B-27 (8'-9') and B-28 (10'-11' and 12'-13'), which were advanced approximately 5 feet and 10 feet away from the concrete holding tank were also tested for TCLP VOCs and indicated concentrations of PCE that exceed the characteristic hazardous waste criteria. A soil sample collected deeper in B-27 (12'-13') detected significantly lower total concentrations of VOCs and the TCLP results indicated that soil from this depth is below the hazardous waste criteria. [*Note: The soil samples from soil boring B-28 indicated an increase in the concentrations of CVOCs between samples from 10'-11' and 12'-13'; however, PID readings were decreasing with depth. Due to insufficient recovery, a sample from below 13' was not obtained for analytical testing.*] Two other soil samples (B-22 [8.8'-9.3'] and B-40 [9'-10']) were submitted for TCLP testing and indicated that these areas were not considered hazardous waste. Due to an elevated concentration of PCE in soil boring B-39, the NYSDEC requested that additional soil borings be advanced to the south and west of B-39. As such, the second phase of soil borings was implemented.

The second phase of soil borings included the submittal of seven (7) additional soil samples for analysis for total TCL VOCs and one of these samples (B-44 (1.3'-2.3')) being tested for TCLP VOCs. The results of the second phase soil borings appeared consistent with the field observations and PID readings with the exceptions of two soil samples, B-44 (1.2'-2.3') and B-52 (9.8'-10.6'). The PID readings for these soil samples did not appear to be consistent with the laboratory data. As such, additional samples from in proximity to these sample locations/depths were collected (B-44R [1'-2'] and B-52R [8'-9']) and tested in order to re-evaluate the results. [*Note: A Data Usability Summary Report (DUSR) was not completed for samples B-44R [1'-2'] and B-52R [8'-9'].*] As such, a total of nine (9) soil samples were analyzed and the sample results for the nine soil samples from the second phase borings are summarized in Table 7 and illustrated in Figure 5.

Samples collected from B-29 and B-33 (as shown on Table 6) were analyzed outside of the VOC holding time.

Table 7

Phase II Shallow Soil Samples
Summary of Detected Volatile Organic Compounds
Results in micrograms per kilogram (ug/Kg) or about parts-per-billion (ppb)

Parameter	Sample Location and Depth									Subpart 375-6 Remedial Program Soil Cleanup Objectives for the Protection of Public Health: Commercial Use (ug/Kg)(1)	Subpart 375-6 Remedial Program Soil Cleanup Objectives for the Protection of Groundwater (ug/Kg)(1)
	B-44 (1.3'-2.3')	B-44R+ (1'-2')	B-44 (12'-14')	B-46 (8'-9')	B-48 (12'-13.9')	B-51 (8'-9')	B-52 (9.8'-10.6')	B-52R+ (8'-9')	B-54 (12'-14.6')		
Total Volatiles*											
Tetrachloroethene (PCE)	130 R	245	490 E	140 D	25	26	**16,000** D	**3,140**	2 J	150,000	1,300
Trichloroethene (TCE)	<5 R	<8.67	140 D	270 D	8	5 J	**2,100** D	**881**	2 J	200,000	470
cis-1,2-Dichloroethene (DCE)	<5 R	NA	130	**380** D	26	17	**870** D	NT	21	500,000	250
trans-1,2-DCE	<5 R	<8.67	2 J	42	<6	<6	32	<178	3 J	500,000	190
1,1-DCE	<5 R	<8.67	<6	5 J	<6	<6	2 J	<178	<6	500,000	330
1,1,2-TCA	<5 R	<8.67	<6	3 J	<6	<6	<6	<178	<6	NL	NL
Acetone	<27 R	NA	<28	<29	<29	32	<32	NT	<32	500,000	50
Carbon Disulfide	<5 R	NA	<6	<6	1 J	<6	<6	NT	<6	NL	NL
TCLP Volatiles**											
Tetrachloroethene (PCE)	<50 R	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichloroethene (TCE)	<50 R	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:

VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B

(1) = 6 New York Code of Rules and Regulations (NYCRR) Subpart 375-6 Remedial Program Soil Cleanup Objectives
(2) = Sediment action level listed in NYSDEC TAGM 3028 "Contained-In Criteria" dated November 30, 1992, used for disposal criteria.

* =Sample results in Micrograms per Kilogram (µg/KG) or Parts per Billion (PPB).
NA = Sample not analyzed.
NT = Constituent not tested for.
<5 = Constituent not detected above the reported laboratory detection limit shown.
J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data Indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
B =This flag is used when the analyte is found in the associated blank, as well as in the sample
D = This flag identifies all compounds identified in an analysis at the secondary dilution factor.
E = This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
NL = A value is not listed in Subpart 375-6 RPSCOs for these compounds.
4,800 = Bold type denotes a detected concentration that exceeds Subpart 375-6 RPSCOs for the Protection of Groundwater.
R = This flag indicates the data was rejected by the data usability summary report preparer.
+ = Indicates that a data usability summary report was not completed on this sample.

As shown on Table 7, six (6) of the nine (9) soil samples did not detect concentrations of total VOCs above the NYSDEC RUSCOs for the Protection of Groundwater. The three (3) samples in which VOCs were detected at concentrations greater than the RUSCOs for the Protection of Groundwater were B-46 (8'-9'), B-52 (9.8'-10.6') and the resample of B-52 (i.e., B-52R [8'-9']). The PID readings and field observations from this boring did not appear to correspond with the initial sampling. Borings B-44 and B-45 noted PID readings greater than 1,000 ppm up to 6 feet in depth; however, the concentration of total VOCs from B-44 1'-2' did not detect concentration of total VOCs above the RUSCOs. In addition, this sample also did not detect concentrations of VOCs subsequent to a TCLP extraction at levels above the reported laboratory method detection limits.

Based on the shallow soil sampling results, the extent of soil exceeding characteristic hazardous waste criteria has been defined. This area appears to be limited to the area around the concrete holding tank specifically, in the area between the wastewater holding tank, B-1, B-8, B-27 and B-28. The extent of soil exceeding hazardous waste is approximately 800 square feet and is illustrated on Figure 8. The vertical extent of the area of hazardous waste has been estimated based on PID readings and soil sampling results and appears to range from approximately 4 feet to 12 feet in depth in the immediate area of the concrete holding tank to approximately 6 feet to about 13 feet to 14 feet in depth to the north and east of the holding tank.

In addition to the area of soil exceeding characteristic hazardous waste criteria, the extent of soil exceeding SCGs for the Site has also been generally defined, and is illustrated on Figure 8. The areas of soil exceeding SCGs are generally limited to within the saturated zone, with the potential exception of vadose zone soil in the area of the former PCE Still. Although laboratory data indicates only low concentrations of PCE in the vadose zone soil around the former PCE Still area, it is anticipated that this area would require remedial work in the event this area is disturbed in the future. The remaining areas of soil impacts above SCGs are within the saturated zone and will be addressed as part of any groundwater remediation.

4.2 Shallow Groundwater Sample Results

The shallow groundwater sampling consisted of installation and sampling of eight (8) new monitoring wells and collecting one (1) groundwater sample from a temporary well within boring B-52R. The sampling results are summarized on Table 8 and are compared to 6 NYCRR Part 703 Groundwater Standards. The shallow groundwater results are also illustrated on Figure 6.

Table 8

Shallow Groundwater Samples
Summary of Detected Volatile Organic Compounds
Results in micrograms per liter (ug/L) or about parts-per-billion (ppb)

Parameter	Well Location and Sampling Date													NYCRR Part 703 Groundwater Standards and Guidance Values (ug/L)[1]
	MW-1+	MW-2		MW-3		MW-4		MW-5		MW-7	MW-8	MW-9+	MW-10	B-52R-GW+	
	8/28/2002	11/2/2005*	11/21/2005	11/2/2005*R	11/21/2005	11/2/2005*	11/21/2005	11/2/2005*	11/21/2005	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/27/2006	
Tetrachloroethene (PCE)	**142,000**	**2,500**	**1,900 D**	1.2 J	<1.0	<1.0	<1.0	2.1	1.9	<1.0	**29**	**4,600**	**92**	**1,340**	5
Trichloroethene (TCE)	**4,840**	**1,200**	**900 D**	<1.0	<1.0	<1.0	<1.0	1.2	1.1	<1.8	**26**	**5,300**	**62**	**1,240**	5
cis-1,2-Dichloroethene (DCE)	**4,060**	**2,100**	**1,400 D**	0.58 J	<1.0	<1.0	<1.0	2.5	2.2	**800 D**	**850**	**4,900**	**310**	<20.0	5
trans-1,2-DCE	<2,000	**16**	**10**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**10**	**28**	**76 D**	**7.4**	<20.0	5
Vinyl Chloride (VC)	<2,000	**25**	**21**	0.76 J	<1.0	<1.0	<1.0	1.1	1.4	**130**	**94**	**15**	**84**	<20.0	2
1,1-DCE	<2,000	3.6	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	**14**	0.76	<20.0	5
Toluene	<2,000	**11**	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.58	1.6	<1.0	<20.0	5
Total VOCs	*150,900*	*5,855.6*	*4,235*	*2.54 J*	*None Detected*	*None Detected*	*None Detected*	*6.9*	*6.6*	*141.7*	*1,027.58*	*14,907*	*556.16*	*2,580*	*Not Applicable*

Notes:
VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B

(1) = Ambient Groundwater Standards or Guidance Values referenced in New York Code of Rules and Regulations (NYCRR) Part 703.

900 = Bold denotes a concentration that exceeds the Gourndwater Standards or Guidance Values referenced in NYCRR Part 703

< 1.0 = Compound not detected above the reported laboratory detection limit.

* = The laboratory analyzed the 11/2/2005 samples outside of their holding times, therefore wells were resampled on 11/21/2005.
+ indicates a data usability summary report was not completed for this sample.
D = This flag identifies all compounds identified in an analysis at the secondary dilution factor.
J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater th
R - laboraotry results for well MW-3 were rejected for the 11/2/2005 sample

As shown on Table 8, concentrations of PCE or breakdown products that exceed the 6 NYCRR Part 703 Groundwater Standards were detected in seven (7) of the nine (9) groundwater samples collected. The detected concentrations of VOCs, if any, in monitoring wells MW-3, MW-4, and MW-5 were below their respective 6 NYCRR Part 703 Groundwater Standards. These wells appear to be upgradient and/or cross gradient of the identified source areas at the Site. Groundwater samples from MW-1 (from the 2002 Phase II ESA investigation), MW-2, MW-9, and B-52R-GW detected significantly elevated concentrations of PCE and breakdown products. Monitoring wells MW-7, MW-8, and MW-10 also detected elevated concentrations that appear to require remedial action. Monitoring wells MW-2 and MW-7 are located within approximately 10 feet of the northwest property line. Each of the monitoring wells with detected VOCs indicate degradation of the PCE is occurring. This is based on the concentrations of the breakdown products TCE and 1,2-DCE being at similar and/or higher concentrations than PCE (the apparent contaminant source). In addition, although concentrations of CVOCs in groundwater over a wide area exceed SCGs, the concentrations of CVOCs significantly decrease with distance from the source areas. Specifically, the concentration total CVOCs in the former PCE Still source area (MW-9) decrease from approximately 15,000 ppb to 2,500 ppb in MW-10 which is approximately 25 feet downgradient of MW-9.

Groundwater samples collected from wells MW-2, MW-2DL, MW-4, MW-5, and Trip Blank during the 11/2/2005 sample event were analyzed outside of their holding time by the laboratory. Therefore the wells were resampled on 11/21/2005. Also, a DUSR was not completed for sample results MW-1 and B-52R-GW included in Table 8.

4.3 Deep Soil and Groundwater Sample Results

The depth of detected soil impacts was evaluated during the advancement of the deep soil boring with field observations including PID readings and confirmed with analytical testing. A summary of the detected TCL VOCs is provided in Table 9 below and shown on Figure 7.

Table 9

Deep Soil Boring
Summary of Detected Volatile Organic Compounds (ug/Kg)

Constituent	Sample Depth			Subpart 375-6 RUSCOs for the Protection of Public Health: Commercial Worker Receptor [1]	Subpart 375-6 RUSCOs for the Protection of Groundwater [1]
	14' – 14.7'	20' – 21.1'	65' – 66.4'		
Tetrachloroethene (PCE)	ND<18.2	ND<7.91	ND<7.71	150,000	1,300
Trichloroethene (TCE)	ND<18.2	ND<7.91	ND<7.71	200,000	470
cis-1,2-Dichloroethene (DCE)	164	ND<7.91	ND<7.71	500,000	250
trans-1,2-DCE	ND<18.2	ND<7.91	ND<7.71	500,000	190
Vinyl Chloride	ND<18.2	ND<7.91	ND<7.71	13,000	20

Notes:
VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B
(1) 6 New York Code of Rules and Regulations (NYCRR) Subpart 375-6 Remedial Program Soil Cleanup Objectives
<18.2 = denotes constituent was not detected at a concentration above the reported laboratory detection limit.
NL = denotes a value is not listed for this contaminant.

As shown in Table 9, VOCs were not detected above the reported laboratory method detection limits in the three deep soil samples analyzed, with the exception of one CVOC (cis-1,2-DCE) in the soil sample from 14 feet to 14.7 feet BGS. However, the detected concentration of cis-1,2-DCE was below its associated RUSCOs for the Protection of Public Health: Commercial Worker Receptor and the RUSCO for the Protection of Groundwater. Based on these results, it does not appear that the PCE contamination has impacted soil above SCGs beneath approximately 15 feet BGS.

In addition to the soil evaluation, groundwater samples were collected from two discrete depths in order to evaluate the depth of groundwater that may exceed SCGs and/or require remedial actions. A summary of the detected VOCs is provided in Table 10 below and shown on Figure 7.

Table 10

Deep Groundwater Samples
Summary of Detected Volatile Organic Compounds (ug/L)

Constituent	Sample Depth		6 NYCRR Part 703 Groundwater Standards
	6M+ (30'-40')	6D+ (62'-72')	
PCE	**19**	**46**	5
TCE	2.3	3.1	5
cis-1,2-DCE	4.4	ND<1.0	5
trans-1,2-DCE	ND<1.0	ND<1.0	5
VC	ND<1.0	ND<1.0	2
Acetone	2.5 J	ND<5.0	50
Chloroform	4.0	0.82 J	7

Notes:
ND <18.2 = denotes constituent was not detected at a concentration above the reported laboratory detection limit.
J = denotes an estimated concentration.
Bold Type* = *denotes a concentration that exceeds the 6 NYCRR Part 703 Groundwater Standards
+ denotes a data usability summary report was not completed for the sample

As shown above, groundwater from the two deep samples detected low concentrations of PCE and other VOCs; however, only PCE was detected at concentrations above its associated 6 NYCRR Part 703 Groundwater Standard. Although the detected concentrations of PCE exceed the groundwater standards, these concentrations are significantly lower than the shallow overburden groundwater and do not appear to represent a remedial concern at the Site. A DUSR was not completed for the samples included in Table 10.

4.4 Soil Gas Sampling Results

The soil gas sampling conducted along the property line and on the adjacent property to the northwest was completed as part of the Qualitative Exposure Assessment. The soil gas sampling results are summarized in Table 11 and illustrated on Figure 7.

Table 11

Soil Vapor Testing
Summary of Detected Volatile Organic Compounds (VOCs)
Results in micrograms per cubic meter (ug/m3)

Sample ID / Parameter	SG-15	SG-16	SG-17 (Off-Site)
Chlororform	**14.9**	**1.57**	**1.27**
1,2-Dichloropropane	0.989	ND<0.678	ND<0.751
Methylene Chloride	27.8 E B	17.5 B	8.90 B
Tetrachloroethene	ND<0.939	**8.45**	<1.10
1,1,1-Trichloroethane	1.85	ND<0.799	ND<0.885
Benzene	**11.1**	**9.76**	1.77
Ethylbenzene	2.11	2.29	2.58
Toluene	14.5	15.1	13.4
m,p-Xylene	6.20	7.11	7.11 B
o-Xylene	2.46	2.54	2.69
Styrene	1.34	1.16	1.51
1,4-Dichlorobenzene	2.76	3.15	1.84
Acetone	222 E B	261 E B	377 E B
2-Butanone	52.4 E	54.8 E	69.5 E
2-Hexanone	ND<0.573	ND<0.605	1.92
4-Methyl-2-Pentanone	1.51	2.83	1.85
Carbon Disulfide	2.56 B	6.15 B	4.10 B
Freon 11	ND<0.779	2.21	1.74

<0.678 = denotes constituent not detected above the reported detection limit.

B = denotes consituent also detected in the Method Blank.

E = denotes an estimated concentration.

NL = Not Listed

As shown in Table 11, the VOCs reported above the reported laboratory method detection limits include several chlorinated VOCs and additional non-chlorinated VOCs. The detected concentrations of VOCs in the three soil gas samples are below the Final October 2006 New York State Department of Health (NYSDOH) Soil Vapor/Indoor Air Decision Matrices: Sub-Slab Vapor Concentration, Mitigation Criteria (Matrix 1 > 250 $\mu g/m^3$ & Matrix 2 > 1,000 $\mu g/m^3$).

5.0 Contaminant Fate and Transport

5.1 Potential Routes of Migration

Potential routes of migration identified for this Site include:

- Chlorinated VOCs in subsurface soil migrating and impacting the groundwater table through precipitation or contact with groundwater;
- Chlorinated VOCs migrating in a dissolved groundwater plume; and,
- Chlorinated VOCs volatilizing from impacted groundwater and impacting soil gas (and potentially indoor air quality).

5.2 Contaminant Persistence

The types of VOCs encountered at the Site can naturally biodegrade by sequential reductive dechlorination as follows: PCE to TCE to DCE (cis or trans 1,2-DCE or 1,1-DCE) to VC to ethene. The groundwater results suggest that biodegradation may be occurring at the Site based on the decrease in downgradient concentrations of PCE and the high concentrations of the breakdown products.

5.3 Contaminant Migration

The groundwater contouring completed as part of the RI work indicates that groundwater is flowing to the northwest and slightly to the north toward Irondequoit Creek. The distribution of contamination in the soil and groundwater samples generally concurs with this flow direction. Based on the groundwater flow direction and the sampling completed, CVOCs appear to have migrated from the source areas (concrete holding tank & former PCE Still) to the northwest and were detected along the property line. Furthermore, based on concentrations of CVOCs in groundwater within approximately 10 feet of the northwest property line, it appears that the property to the northwest (1598 Penfield Road) has been impacted by contaminants emanating from the Site. In addition, the soil gas sampling results indicated low level concentrations of VOCs along the northwest property line, the northern corner of the property and the off-site sampling location to the northwest. Although the soil gas concentrations detected are below the NYSDOH decision matrices, two VOCs were detected at concentrations greater than the USEPA Draft Shallow Soil Gas guidance values. In addition, no CVOCs were detected in the soil gas sample SG-17 collected off-site and adjacent to the 1598 Penfield Road structure.

6.0 Qualitative Exposure Assessment

The qualitative exposure assessment has been completed in general accordance with DER-10 Appendix 3B (NYSDOH Qualitative Human Health Exposure Assessment). The qualitative exposure assessment is presented as on-site exposures and off-site exposures and is based on data obtained as part of the RI work and the previous investigation work completed at the Site. [*Note: As indicated in the RI Work Plan, a Fish and Wildlife Exposure Assessment was not completed due to the absence of fish and/or wildlife resources on or adjacent to the Site.*]

6.1 On-Site Exposure Assessment

Potential Exposure Pathways

Exposure pathways have been evaluated as five elements:

1. Contaminant Source – As previously discussed, there are two source areas at the Site: the former concrete wastewater holding tank area and the former PCE Still area.

2. Contaminant Release and Transport Mechanisms – The release of contamination was from previous Site operations in the source areas. Releases from the concrete wastewater holding tank appear to have been directly to the subsurface via infiltration through the concrete and/or cracks within the concrete, as such, significant contamination in this area appears to begin at approximately 4-feet in depth. The former PCE Still source area appears to be from historic use from above the concrete floor slab that migrated through the concrete and into the subsurface (i.e., from the top down). Contamination from both source areas have leached into the groundwater and migrated with groundwater to the northwest.

3. Point of Exposure – The areas of contamination are located beneath the building, asphalt pavement, or topsoil and groundwater in the area is not used as a source of drinking water. As such, the contamination is not directly accessible to the public and points of exposure are limited. Exposures via direct contact and/or ingestion of soil and groundwater are not a significant concern at this time. As such, the only apparent point of exposure would be vapor intrusion from the sub-slab soil gas. [*Note: On-site vapor intrusion was not evaluated as part of the RI since redevelopment of the Site is planned as an unoccupied facility (refer to Receptor Population below). Although not specifically evaluated, based on the current levels of contamination within the subsurface in the source areas, vapor intrusion appears to be a potential concern if the building on-site was occupied.*]

4. Route of Exposure – Since the only apparent point of exposure is vapor intrusion, the route of exposure would be inhalation of the VOCs.

5. Receptor Population – Since the building is currently vacant, there is not a receptor population currently at the Site. In addition, the Site is planned for redevelopment as an automated (unoccupied) car wash facility that will have open bays (i.e., open air car washing areas). As such, there does not appear to be a future receptor population based on the planned site use.

Based on the above, a completed on-site exposure pathway does not exist for the current or planned use of the Site.

Although there is not a completed exposure pathway on-site (currently or based on future use), there may be completed exposure pathways during remedial activities and/or redevelopment. As such, measures to protect site workers and the public should be implemented prior to any redevelopment including developing a site-specific Health and Safety Plan (HASP) and a Community Air Monitoring Plan (CAMP). The HASP and CAMP should be submitted to regulatory agencies for review and approval. It is anticipated that specific measures within these plans would include (but not limited to): air monitoring of the work zone and downgradient locations, site/work area controls (fencing), response plans for vapor emissions, etc.

6.2 Off-Site Exposure Assessment

Potential Exposure Pathways

Exposure pathways have been evaluated as five elements:

1. Contaminant Source – As previously discussed, there are two source areas at the Site that are impacting the neighboring property to the northwest (1598 Penfield Road parcel): the former concrete wastewater holding tank area and the former PCE Still area.

2. Contaminant Release and Transport Mechanisms – The release of contamination was from previous Site operations in the source areas. Releases from the concrete wastewater holding tank appear to have been directly to the subsurface via infiltration through the concrete and/or cracks within the concrete, as such, significant contamination in this area appears to begin at approximately 4-feet in depth. The former PCE Still source area appears to be from historic use from above the concrete that migrated through the concrete floor slab and into the subsurface (i.e., from the top down). Contamination from both source areas have leached into the groundwater and migrated with groundwater to the northwest. Monitoring wells within 10 feet of the property line identified groundwater contamination at concentrations greater than 6 NYCRR Part 703 Groundwater Standards. Soil gas samples detected two VOCs at concentrations greater than the USEPA Draft Target Shallow Soil Gas Criteria.

3. Point of Exposure – The off-site areas of contamination are limited to the saturated zone and are approximately 6 feet below the ground surface. Groundwater in the area is not used as a source of drinking water. As such, the contamination is not directly accessible to the public and points of exposure are limited. Exposures via direct contact and/or ingestion of soil and groundwater are not a significant concern at this time. As such, the only apparent point of exposure would be vapor intrusion from the sub-slab soil gas. The soil gas sample collected from 1598 Penfield Road (SG-17) indicated that soil gas concentrations are below the NYSDOH decision matrices. Although Chloroform was detected above the USEPA Draft Target Shallow Soil Gas guidance value, the concentration was only slightly exceeded the criteria (i.e., exceeded by 0.17 $\mu g/m^3$). [*Note: The off-site soil gas sampling location was not collected from beneath the building slab where VOCs may accumulate at higher concentrations; however, it appears that any further evaluation of off-site impacts would be the responsibility of the Responsible Party and/or regulatory agencies.*] Based on current data there may be a potential for an off-site point of exposure.

4. Route of Exposure – The only apparent route of exposure is via infiltration from sub-slab soil gas. The off-site soil sample indicated that VOC soil gas concentrations are below the NYSDOH Draft Criteria and one VOC exceeded the USEPA Draft Target Shallow Soil Gas Criteria; however, the concentrations of sub-slab soil gas have not been quantified as part of this investigation.

5. Receptor Population – Based on the groundwater flow direction and the documented locations of contamination the potential receptor population would be occupants of the property to the northwest (1598 Penfield Road). Based on the soil gas sampling results completed as part of the RI there currently does not appear to be a completed exposure pathway. However, the concentrations of soil gas beneath the building have not been quantified.

Although a completed off-site exposure pathway does not currently appear to exist, VOCs may accumulate in the sub-slab soil gas at greater concentrations. However, since the party conducting the work is a Volunteer, additional work is the responsibility of the Responsible Party and/or NYSDEC.

7.0 Interim Remedial Measures

On June 30, 2007, LaBella conducted an IRM Soil Removal program designed to remove impacted soil and groundwater from the source area identified during previous environmental investigations conducted at the Site. Specifically this IRM addressed source area soils in the proximity of the former concrete wastewater holding tank located immediately to the north of the site building. IRM Soil Removal activities followed the IRM Work Plan approved by the NYSDEC on October 18, 2006. A separate IRM Report was submitted to NYSDEC in July 2009; however, a summary of the work completed and the test results is provided below.

7.1 Removal Activities

The remedial excavation work was conducted by the Site owner, Clifton Land Development Company, LLC under the oversight of a LaBella Environmental Geologist. All persons directly involved with the soil removal work were OSHA 40-hr. trained workers. The IRM was focused on the area to the east, north and west of the former concrete wastewater holding tank at the Site where previous environmental investigations (refer to Sections 1.3 and 4.0) identified CVOC-impacted soils at concentrations exceeding 6 NYCRR Subpart 375-6 RPSCOs.

Prior to the start of the IRM excavation activities, approximately 632-gallons of CVOC impacted water was pumped from the former concrete wastewater holding tank and the remedial excavation into a temporary 1,000-gallon polyvinylchloride (PVC) holding tank until it was transported off-site for proper disposal to the Chemical Waste Management Model City Landfill on August 31, 2007 (Refer to Section 7.4). In addition, well development and purge waters generated from the RI were also included with the wastewater holding tank water.

The soil removal was conducted under the oversight of a LaBella Environmental Geologist. The excavation work consisted of excavating impacted soil from areas to the north, west and east of the former wastewater holding tank where the criteria in the Soil Removal Work Plan–Interim Remedial Action were exceeded. Excavated soils were screened with a PID by a LaBella Environmental Geologist for total VOC concentrations as the soil was removed from the ground. A total of approximately 220-cubic yards of soil was excavated from the source area surrounding the wastewater tank, segregated (based on the PID screening readings made at the time the soil was excavated), and staged on-site in one of four (4) soil piles (Clean Soil, Lightly Impacted Soil, Moderately Impacted Soil, and Heavily Impacted Soil). The remedial excavation was backfilled with approximately 250-cubic yards of soil/stone in order to restore the Site for future redevelopment. Below is a summary of Remedial Excavation Details.

Remedial Excavation Details

Area of Excavation	Depth of Excavation	Estimated Volume of "Clean Soil" Excavated †	Estimated Volume of "Lightly Impacted Soil" Excavated †	Estimated Volume of "Moderately Impacted Soil" Excavated †	Estimated Volume of "Heavily Impacted Soil" Excavated †
		0.0–50 ppm	50–500 ppm	500–2,000 ppm	>2,000-ppm
~645-Sq. Ft.	9.0 to 12.0-Ft.	45-Cu. Yds.	30-Cu. Yds.	80-Cu. Yds.	65-Cu. Yds.

† Denotes that the soil volumes are estimated based on the dimensions of the soil piles and the measured dimensions of the IRM excavation.

The segregated soil piles were sampled for waste characterization purposes in accordance with NYSDEC Spill Technology and Remediation Series (STARS) Memo #1 and covered with another layer of 6-mil polyethylene sheeting pending disposal.

Three classes of solid waste (i.e. soil) and one class of liquid waste were removed from the Site as part of the IRM. Each of these waste streams was transported off-site for disposal in accordance with the applicable regulations. The soil was staged on-site in four separate staging piles based on PID readings measured during the IRM. Pending the completion of final waste characterization sampling and confirming disposal arrangements, the soil was staged on double layers of 6-mil polyethylene sheeting surrounded by soil berms. Each soil pile was also covered with a third layer of weighted down 6-mil polyethylene sheeting to prevent precipitation from coming in contact with impacted soil in the pile. In addition, 632 gallons of CVOC impacted groundwater was staged on-site in a temporary 1,000-gallon holding tank pending final waste characterization and disposal.

Six (6) loads of CVOC impacted soil totaling 175.38 tons were transported to Waste Management High Acres Landfill in Fairport, New York for disposal as "Contained In" Non-Hazardous Waste on August 31, 2007. Based on the 'Contained-In' Action Levels, this soil did not require disposal as a hazardous waste.

One (1) load of CVOC impacted soil totaling 19.22 tons was transported to Waste Management's Model City Landfill in Model City, New York for disposal as Hazardous Waste on August 31, 2007.

Two (2) loads of heavily CVOC impacted soil totaling 43.28-tons were transported to the Recupere Sol, Inc. treatment facility in St. Ambrose, Quebec, Canada for thermal treatment on November 13, 2007. According to the Certificate of Destruction, the treatment of this material was completed by December 5, 2007.

A cumulative total of 632-gallons of CVOC impacted wastewater was pumped from the concrete holding tank prior to its removal and from the IRM excavation. The CVOC impacted water was transported to the Waste Management Model City Landfill in Model City. New York for disposal as Hazardous Waste on August 31, 2007.

[Note: The investigation derived waste generated from the RI was also included with these waste streams.]

The location of the remedial excavation, and the soil staging areas are shown on Figure 10. Additional details on the removal work and disposal documentation are provided in the IRM Report being submitted separately.

7.2 Excavation Confirmatory Soil Sampling Analytical Results

A total of six (6) confirmatory soil samples were submitted for laboratory testing from the remedial excavation. The samples were sent under Chain-of-custody control to STL. Each sample was analyzed for TCL VOCs by USEPA Method 8260B and an ASP Category B Deliverables data package was provided by STL. Table 12 provides a summary of the detected VOCs in the confirmatory soil samples.

Table 12

IRM Excavation Confirmatory Soil Samples
Summary of Detected Volatile Organic Compounds (ug/Kg)
Results in micrograms per Kilogram (ug/Kg) or about parts per billion

Parameter	Sample Location and Depth						Subpart 375-6 Remedial Program Soil Cleanup Objectives for the Protection of Public Health: Commercial Use (ug/Kg)[1]	Subpart 375-6 Remedial Program Soil Cleanup Objectives for the Protection of Groundwater (ug/Kg)[1]
	Excavation Base Samples		Excavation Sidewall Samples					
	BS-1 12.0-ft.	BS-2 9.0-ft.	SW-1 8.0-ft.	SW-2 7.5-ft.	SW-3 7.5-ft.	SW-4 8.0-ft.		
Total Volatiles*								
Acetone	<2,100,000	**150** JB	<790	<130	**210** J	**170** JB	500,000	50
Chloromethane	<110,000	15 J	<42	<9.9	<6.4	<6.3	Not Listed	
cis-1,2-Dichloroethene (DCE)	<300,000	32 J	<110	**250** J	<17	<17	500,000	250
Methylene Chloride	**5,400,000** B	<110	**2,600** B	**370** B	<120	<120	500,000	50
Tetrachloroethene (PCE)	**130,000,000**	**9,300**	**46,000**	**3,200**	**4,700** B	**1,600**	150,000	1,300
Trichloroethene (TCE)	<260,000	75 J	<96	98 J	<15	<15	200,000	470

Notes:
VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B

(1) = 6 New York Code of Rules and Regulations (NYCRR) Subpart 375-6 Remedial Program Soil Cleanup Objectives
(2) = Sediment action level listed in NYSDEC TAGM 3028 "Contained-In Criteria" dated November 30, 1992, used for disposal criteria.
(3) = Groundwater action level listed in NYSDEC TAGM 3028 "Contained-In Criteria" dated November 30, 1992, used for disposal criteria.

* =Sample results in Micrograms per Kilogram (µg/Kg) or Parts per Billion (ppb).
<5 = Constituent not detected above the reported laboratory detection limit shown.
J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria
B =This flag is used when the analyte is found in the associated blank, as well as in the sample
NL = A value is not listed in NYCRR Subpart 375-6 for these compounds.
4,800 = Bold type denotes a detected concentration that exceeds Subpart 375-6 RPSCOs for the Protection of Groundwater.
= Green highlight denotes a concentration that exceeds the Subpart 375-6 RPSCOs for the Protection of Public Health: Commercial Worker Receptors.

As shown on Table 12, VOCs (including PCE, TCE cis-1,2-DCE, acetone, methylene chloride, and chloromethane) were identified in the IRM Excavation confirmatory soil samples at detectable levels. Acetone, PCE, and methylene chloride were detected at concentrations exceeding their respective NYSDEC RPSCOs for the Protection of Groundwater within at least one of the six confirmation samples. PCE and methylene chloride were detected in one of the six confirmation samples at concentrations exceeding their respective NYSDEC RPSCOs for the Protection of Health: Commercial. No other VOCs were detected within the IRM excavation confirmatory samples at concentrations exceeding their associated RPSCOs.

7.3 LaBella Associates' Post-IRM Shallow Groundwater Evaluation

A Shallow Groundwater Evaluation was conducted by LaBella in March 2008 to evaluate the effects of the IRM soil removal on the contaminant concentrations in groundwater. This Shallow Groundwater Evaluation consisted of the resampling of seven (7) overburden groundwater monitoring wells that were originally installed and sampled for the RI (i.e. MW-2 through MW-5 and MW-8 through MW-10). *[NOTE: Shallow groundwater monitoring well MW-1 had been damaged prior to November 2005 and was removed during the IRM excavation activities. In addition, shallow overburden monitoring well MW-7 could not be located during the March 2008 sampling event. Finally, nested monitoring well pair MW-6M/6D) was designed and installed to monitor the medium and deep overburden groundwater and therefore were not resampled as part of the post-IRM shallow groundwater evaluation. The replacement of MW-7 will be addressed as part of the remedial design.]*

A summary of the concentrations of total CVOCs detected in groundwater samples collected for the most recent Pre-IRM sampling event (i.e. November 2005 for wells MW-2 through MW-5, and April 2006 for wells MW-8 through MW-10) compared to the analytical results for this Post-IRM groundwater sampling event is presented Table 12 below.

Table 13

Shallow Groundwater Samples
Summary of Total Detected VOCs: Pre-IRM vs. Post-IRM

Monitoring Well ID	Source Area Evaluated	Location Relative to the IRM Excavation	Pre-IRM Groundwater Sampling Event (ug/L)	Post-IRM Groundwater Sampling Event (ug/L)	Reduction in Total CVOCs
MW-2	W.W.H.T.	Downgradient	4,235	2,501	41% Reduction
MW-3	W.W.H.T.	Cross-gradient	None Detected	None Detected	No Change
MW-4	W.W.H.T.	Upgradient	None Detected	None Detected	No Change
MW-5	W.W.H.T.	Upgradient	6.6	9.4	42% Increase
MW-8	W.W.H.T. & Still	Cross-gradient	1,081	659	39% Reduction
MW-9*	Still	Cross-gradient	15,001	62,820	319% Increase
MW-10	Still	Cross-gradient	2,580	1,442	44% Reduction

W.W.H.T. = Wastewater Holding Tank
MW-9 is located directly downgradient from the former PCE still source area.

Copies of the Groundwater Sampling Logs are presented in Appendix 4. The analytical results for post-IRM shallow groundwater sampling are illustrated on Figure 11.

8.0 Site Investigation Conclusions

8.1 Investigation Summary

The previous investigation work and the RI work consisted of the following: advancing a total of fifty-five (55) shallow soil borings and one (1) deep soil boring; conducting a passive soil gas survey using 13 temporary soil gas sampling points; installing three (3) permanent soil gas probes; installing nine (9) shallow overburden groundwater monitoring wells and two (2) deep groundwater monitoring wells; and, collecting/analyzing soil, groundwater and soil gas samples. The RI work was completed in general accordance with the RI Work Plan and Supplemental RI Work Plan approved by NYSDEC. The initial phase of borings consisted of a grid pattern around the concrete wastewater holding tank area to evaluate the extent of shallow soil that exceeds hazardous waste criteria and SCGs. In addition, several of the first phase borings were advanced within the building to evaluate the floor drains/drain lines and other potential source areas. The second phase of soil borings further evaluated the former PCE Still area and overall groundwater impacts. A deep soil boring was advanced/sampled and a nested pair consisting of two deep monitoring wells were installed/sampled in order to evaluate the vertical extent of contamination that may require remedial actions. Soil gas sampling was conducted along property lines and off-site as part of a qualitative exposure assessment.

The analytical testing of soil and groundwater was generally completed by STL in Buffalo and reported in ASP Category B deliverables, with the exception of select samples which were tested locally by Paradigm. In addition, the soil gas samples were tested by Paradigm and provided in ASP Category B deliverables.

8.2 Nature and Extent of Contamination

The nature and extent of contamination at the Site has been delineated. The contamination at the Site is from PCE used as part of former dry cleaning operations. The sources of subsurface contamination appear to be predominantly from the concrete wastewater holding tank formerly located north of the building and to a lesser extent the former PCE Still formerly located in the southern corner of the building. These two source areas appear to have impacted both soil and groundwater. The extent of contamination has been separated into three areas of concern (AOCs), which are described below.

AOC #1: Concrete Wastewater Holding Tank Area

The grid pattern of 1st phase soil borings generally defined the extent of soil that exceeds SCGs and defined the extent of soil that exceeds the hazardous waste criteria. Based on the soil borings, the horizontal extent of soils meeting hazardous waste criteria appeared to be limited to immediately adjacent to the concrete wastewater holding tank area and to the north/northeast to the approximate location of borings B-1, B-27, and B-28. The vertical extent of soils that meet hazardous waste criteria appears to be limited to approximately 10-feet in depth around B-27 and possibly below 15-feet around B-28. Although the deepest soil sample from B-28 exceeded hazardous waste criteria, it is not anticipated that significant contamination extends beyond 14 or 15-feet BGS outside of the B-28 and wastewater holding tank area. This assumption is based on the decreasing PID readings observed in this

boring and only minimal detections in the deep soil samples and groundwater samples collected from MW-6M/6D.

Based on the RI data, an IRM soil removal was completed which consisted of removing and disposing of approximately 238 tons of contaminated soil and 632 gallons of contaminated waters. The IRM removed the wastewater holding tank and the worst case soils in proximity to the holding tank. The confirmatory sampling results indicated that PCE concentrations in each of the samples were above the Part 375-6 RPSCOs for the Protection of Groundwater and one bottom sample from beneath the former tank area exceeded the RPSCO for Restricted Commercial Use. However, the soil removal work appears to have removed impacts above SCGs from the unsaturated zone.

The remaining impacts around the former concrete wastewater holding tank appear to be within the saturated zone and will require additional remedial measures, which should be evaluated as part of a Remedial Alternatives Analysis.

AOC #2: Former PCE Still Area

The second phase of soil borings generally defined the extent of contamination originating from the former PCE Still area. Contamination from the former PCE Still appears to have migrated from the Still through the floor and into the shallow overburden soil and groundwater. The horizontal extent of impacted soil from the former PCE Still within the vadose zone appears to be limited to soil beneath the southern corner of the building. Although elevated PID readings were measured in soil from borings B-44 and B44R, soil samples from these borings did not indicate concentrations of VOCs that exceed the NYSDEC guidance. However, the actual location of the former PCE Still is approximately 10 feet to the southeast and as such soils in the immediate area of the former PCE Still may require remedial actions. Additional evaluation of this area does not appear warranted at this time since the extent of contamination appears limited based on borings within the area (B-44, B-45, B-48, B-53, B-54, and B-55). Any additional evaluation and/or remediation should be conducted at the time of (or subsequent to) building demolition. The extent of vadose zone soil exceeding SCGs has been conservatively estimated at 425 square feet and is illustrated on Figure 8.

The impacts around the former PCE Still require remedial measures which should be evaluated as part of a Remedial Alternatives Analysis.

AOC #3: Groundwater Contamination

The area of groundwater contamination has been defined at the Site based on eight (8) shallow groundwater monitoring wells and the deep nested pair monitoring wells installed as part of the RI work. In addition, one previous shallow groundwater monitoring well was installed as part of the initial Phase II ESA conducted in August 2002. Based on the groundwater sampling conducted on the deep monitoring wells (MW-6M/6D), it appears that significant groundwater contamination has not migrated to the deep groundwater and is limited to shallow groundwater. The vertical extent of shallow groundwater impacts appears to be approximately 15-feet in depth based on the deep soil and groundwater sampling which detected only minimal concentrations of contaminants at depths greater than 15-feet. In addition, PID readings and laboratory analysis of soil samples from within the saturated zone generally decreased with depth. The horizontal extent of groundwater contamination is relatively widespread across the Site and is summarized below:

- Northern Extent – The groundwater sample from monitoring well MW-3 only detected minor concentrations of CVOCs and soils observed from numerous borings in the northern portion of the property (B-14 through B-20) did not detect significant evidence of impairment. Based on this data, the northern extent of groundwater contamination has been generally defined and is limited to groundwater south of B-16 through B-20.
- Eastern Extent – Soils observed from borings B-24, B-29, and B-34 did not encounter evidence of impairment and PID readings were less than 10 ppm from within the saturated zone. Furthermore, a soil sample from boring B-29 from within the saturated zone (8'-10.6') detected only minor concentrations of CVOCs that were below the NYSDEC RUSCO for the protection of groundwater. A groundwater sample from MW-5 detected only minor concentrations of CVOCs, which were below Part 703 Groundwater Standards.
- Southern Extent – Soil borings B-53, B-54 and B-55 did not detect evidence of impairment and PID readings from the saturated zone within these borings were below 2 ppm. Therefore, on-site source areas have not impacted the southern portion of the Site.
- Western Extent – Groundwater contamination appears to extend up to and beyond the western/northwestern property line. This is based on groundwater samples collected from wells MW-2 and MW-7 which are approximately 10 feet from the west property line. These wells contained concentrations of CVOCs above the Part 703 Groundwater Standards.

Figure 9 illustrates the extent of on-site groundwater potentially requiring remedial action.

8.3 Fate and Transport

The CVOCs at the Site can naturally biodegrade by sequential reductive dechlorination. The groundwater sampling results suggest that biodegradation may be occurring at the Site based on the decrease in downgradient concentrations of PCE and the high concentrations of the breakdown products.

The apparent groundwater flow direction at the Site is to the northwest and slightly to the north. The contaminant distribution in the soil and groundwater samples concurs with this flow direction. CVOCs have migrated from the source areas to the northwest and appear to have impacted the property to the northwest (1598 Penfield Road). Soil gas sampling results indicated low level concentrations of VOCs along the northwest property line, the northern corner of the property and the off-site sampling location to the northwest.

8.4 Potential Exposures

Based on the current data collected from the Site and the off-site soil gas sample, there does not appear to be exposure issues on-site based on the current use and anticipated future site use as an automated car wash. [*Note: It is recommended that a CAMP be developed and implemented during site redevelopment in order to protect site workers and the public. A site-specific HASP was developed as part of the RI Work Plan.*]

The off-site exposure assessment indicated that although a completed exposure pathway does not appear to exist, there does appear to be a potential route of exposure via infiltration from sub-slab soil areas. However, the concentration of soil gas beneath the building at 1598 Penfield Road was not quantified as part of the work. There is a potential that higher concentrations of VOCs may accumulate in the sub-slab soil gas. However, since Springs Land Company, LLC is under Volunteer status, it appears that

additional quantitative investigation is not required as part of this BCP program. As such, it appears that any further evaluation of off-site impacts would be the responsibility of the Responsible Party and/or the regulatory agencies.

8.5 Interim Remedial Measure

An IRM Soil Excavation and Disposal action was conducted at the Site in June 2007. The results of the IRM are summarized below:

- Six (6) loads of CVOC impacted soil totaling 175.38 tons were transported to Waste Management High Acres Landfill in Fairport, New York for disposal as "Contained In" Non-Hazardous Waste on August 31, 2007.
- One (1) load of CVOC impacted soil totaling 19.22 tons was transported to the Waste Management Model City Landfill in Model City. New York for disposal as Hazardous Waste on August 31, 2007.
- Two (2) loads of CVOC impacted soil totaling 43.28-tons were transported to the Recupere Sol, Inc. treatment facility in St. Ambrose, Quebec, Canada for thermal treatment on November 13, 2007. According to the Certificate of Destruction, the treatment of this material was completed by December 5, 2007.
- A cumulative total of 632-gallons of CVOC impacted water was pumped from the concrete holding tank prior to its removal and from the IRM excavation. This CVOC impacted water was transported to the Waste Management Model City Landfill in Model City. New York for disposal as Hazardous Waste on August 31, 2007.

8.6 Post-IRM Shallow Groundwater Evaluation

A Shallow Overburden Groundwater Evaluation consisting of the resampling of seven (7) overburden groundwater monitoring wells that were originally installed and sampled for the RI was conducted at the Site subsequent to the IRM Soil Removal in March 2008. Analytical results indicate that total CVOC concentrations within wells down or cross-gradient to the IRM soil removal area had dropped between 39 and 44 percent relative to detected pre-IRM levels. The total CVOC concentration with the samples from monitoring well MW-9 did increase relative to its pre-IRM detected concentration, however, this well is downgradient from the former PCE still source area.

8.7 Conclusions

Based on the work completed as part of the RI, there appears to be the need for additional remedial measures to be conducted at the Site. The Interim Remedial Measure (IRM) implemented to remove the source area soil identified as a characteristic hazardous waste around the concrete wastewater holding tank has been successfully completed and appears to have had an impact in lowering CVOC concentrations in groundwater downgradient from this source area; however, additional remedial measures are warranted in this area. A similar soil removal for unsaturated soils and worst case source area soils in the area of the PCE Still appears prudent. Remediation of groundwater and saturated zone soils also is warranted.

Based on the work completed as part of the RI, an Alternatives Analysis Report should be developed in order to evaluate remedial measures to address the three AOCs that still exist at the Site.

9.0 Citizen Participation Activities

As part of the BCP Agreement enacted for the Site, actions are required to be taken to ensure continued Citizen Participation and education. The Citizen Participation Plan completed for the Site indicates that subsequent the submission of the RI Report, a fact sheet will be prepared/mailed to the brownfield site contact list. As such, within 10-business days of submitting this RI Report, a fact sheet will be submitted to the NYSDEC for review. Subsequent to NYSDEC input, the fact sheet will be mailed to the brownfield site contact list. [*Note: These Citizen Participation activities were completed as part of the initial submission of the RI Report.*]

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LABELLA
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300 State Street
Rochester, New York 14614

Figures

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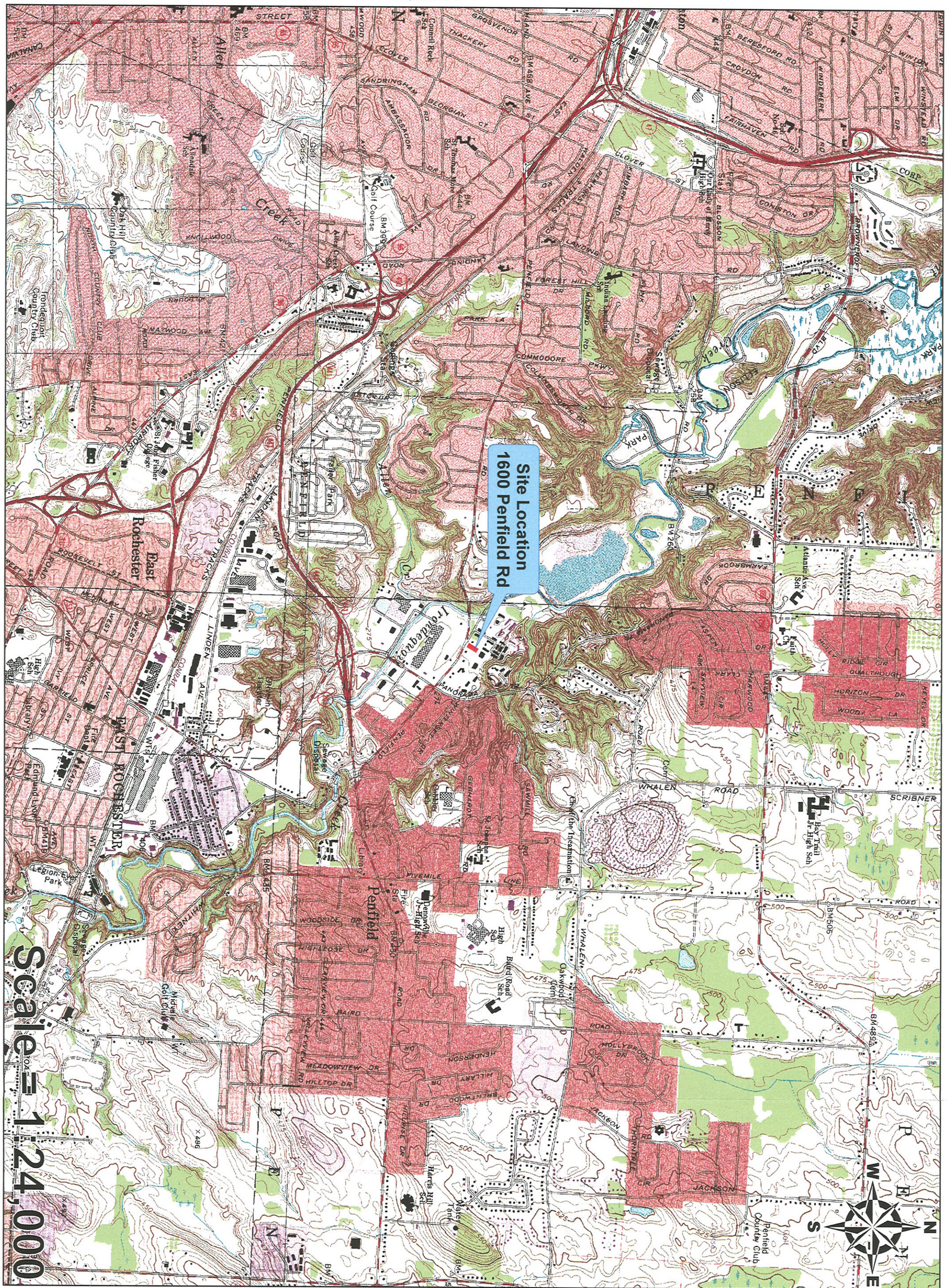

FIGURE 1

205237.01

PROJECT/DRAWING NUMBER

DRAWING TITLE

SITE LOCATION MAP WITH USGS QUADRANGLE TOPOGRAPHY MAP

ISSUED FOR: REVISION

DATE: JUNE, 2009

DESIGNED BY: JJW

DRAWN BY: JJW

REVIEWED BY: DPN

PROJECT/CLIENT

CARRIAGE CLEANTOWN REMEDIAL INVESTIGATION REPORT

SPRINGS LAND COMPANY, LLC

1600 PENFIELD ROAD PENFIELD, NEW YORK

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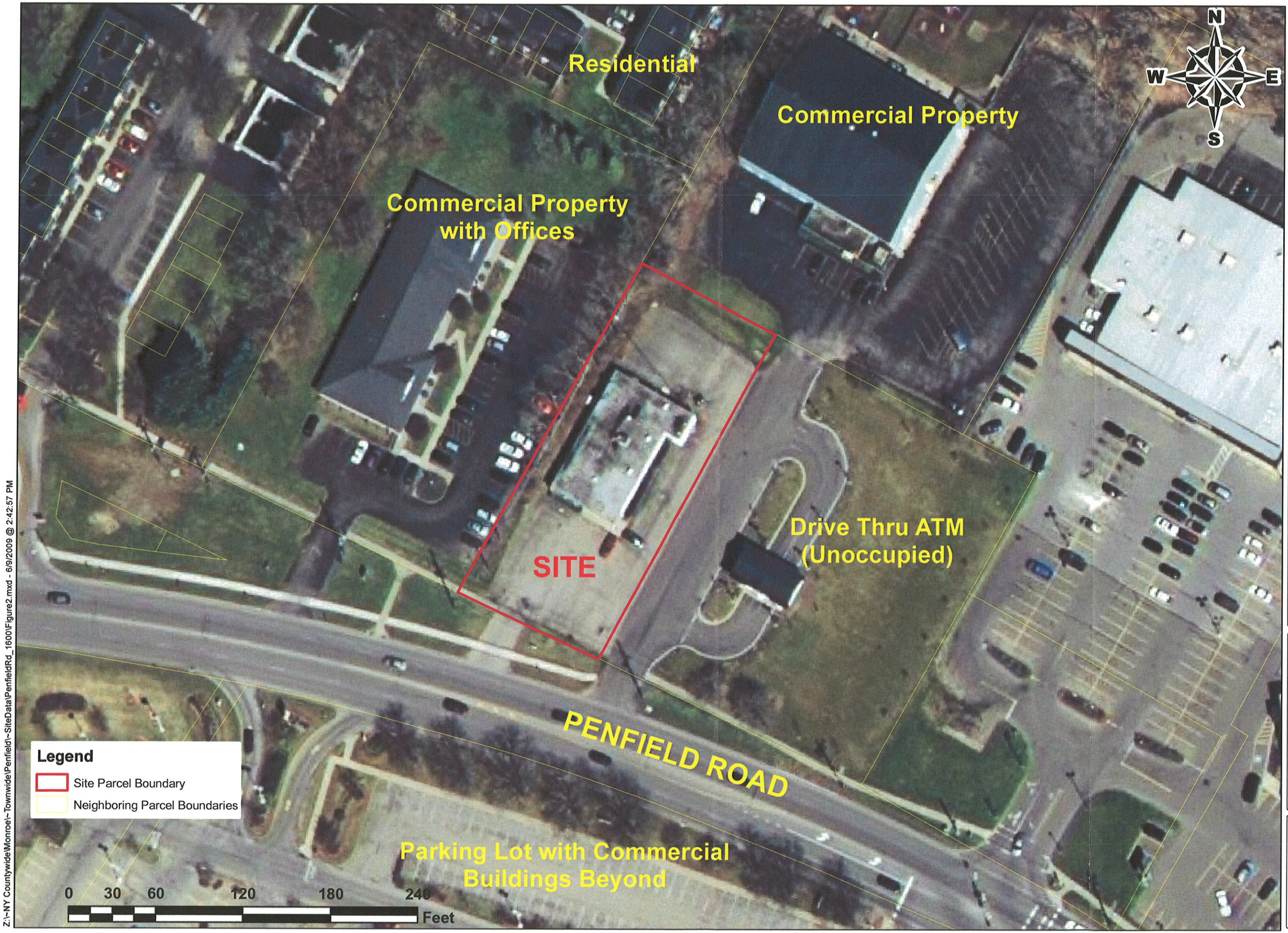

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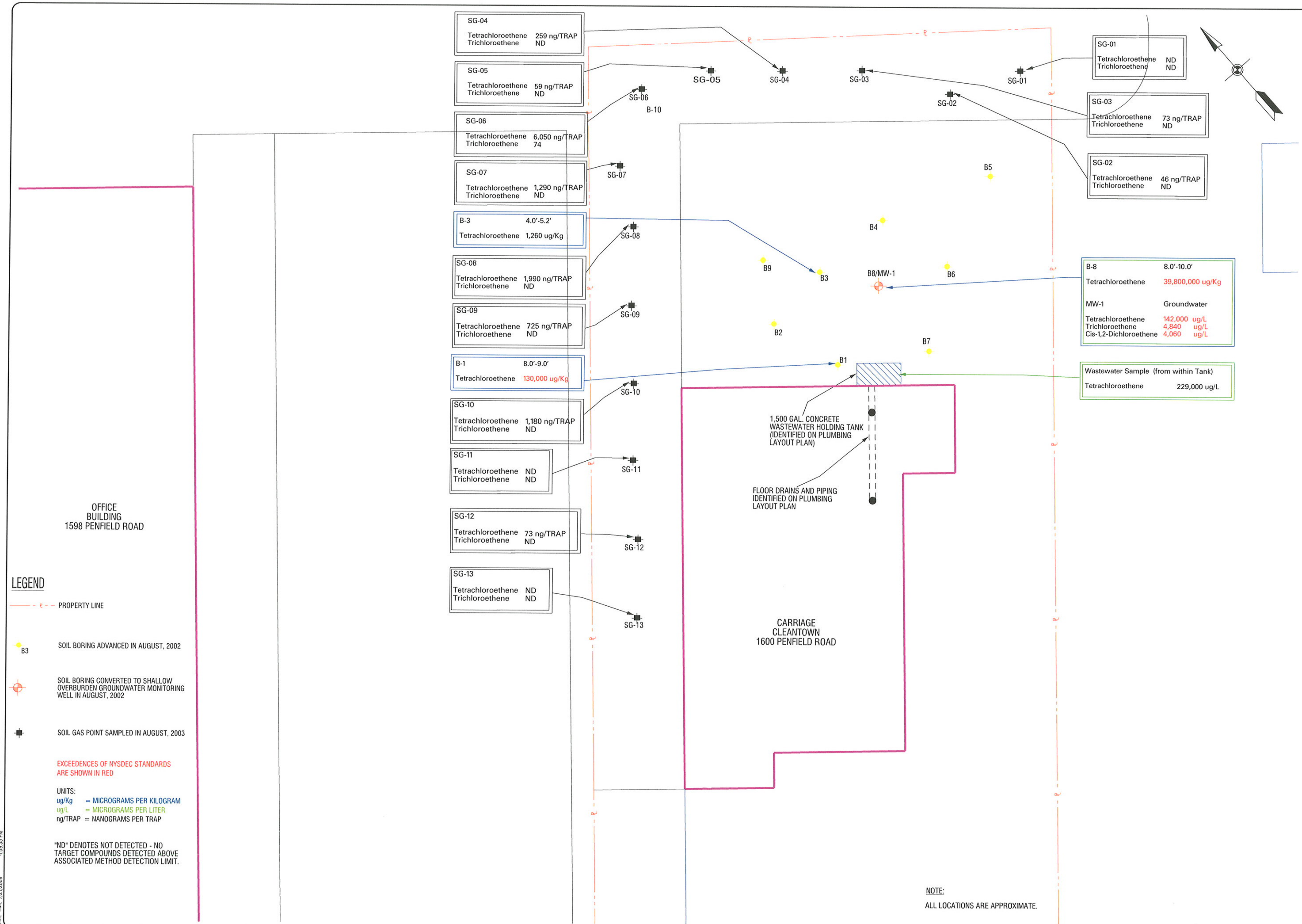
PROJECT/CLIENT
CARRIAGE CLEANTOWN
REMEDIAL INVESTIGATION REPORT
SPRINGS LAND COMPANY, LLC
1600 PENFIELD ROAD
PENFIELD, NEW YORK

DRAWING TITLE
SITE PLAN
WITH ADJACENT
PROPERTIES

ISSUED FOR
REVISION
DATE: JUNE 2009

DESIGNED BY: JJW
DRAWN BY: JJW
REVIEWED BY: DPN

PROJECT/DRAWING NUMBER
205237.01
FIGURE 2



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PROJECT/CLIENT

CARRIAGE CLEANTOWN
REMEDIAL INVESTIGATION REPORT

SPRINGS LAND COMPANY, LLC

1600 PENFIELD ROAD
PENFIELD, NEW YORK

DRAWING TITLE

SITE PLAN WITH HISTORIC SAMPLING DATA

ISSUED FOR: REVISION

DATE: JUNE 2009

SCALE: 1" = 20'
DESIGNED BY: DPN
DRAWN BY: GK
REVIEWED BY: DPN

PROJECT NUMBER
205237.01

DRAWING NUMBER
FIGURE 3

SHEET 1 OF 1

SG-17

OFFICE
BUILDING
1598 PENFIELD ROAD

B-35 (MW-3) SG-16 SG-06 SG-05 SG-04 SG-03 B-36 (MW-4) SG-01 SG-02

B-10 B-11 B-12 B-13

SG-07 B-14 B-15 B-16 B-17 B-18 B5

SG-08 B-19 B-20 B-21 B4 B-22 B-23 B-24

B9 B3 B8/MW-1 B6

SG-09 B-25 MW-6M/MW-6D B-26 B-27 B-28 B-29

B2 B7

B-37 (MW-2) SG-10 B-30 B-31 B1 B-32 B-41 B-33 B-34

B-40

1,500 GAL. CONCRETE WASTEWATER HOLDING TANK (IDENTIFIED ON PLUMBING LAYOUT PLAN)

SG-11 B-39 B-38 (MW-5)

FLOOR DRAINS AND PIPING IDENTIFIED ON PLUMBING LAYOUT PLAN

B-51 B-42

SG-12 B-49/MW-8

B-43/MW-7 B-46

SG-13

CARRIAGE
CLEANTOWN
1600 PENFIELD ROAD

B-50 B-45

SG-15 B-44/MW-9 & B-44R B-53

B-47/MW-10

APPROX. LOCATION OF PCE STILL

B-48 B-52 & B-52R

B-54 B-55

NOTE:

ALL LOCATIONS ARE APPROXIMATE.

LEGEND

- PROPERTY LINE
- B3 — SOIL BORING ADVANCED IN AUGUST, 2002
- SOIL BORING CONVERTED TO SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL IN AUGUST, 2002
- SOIL BORING ADVANCED IN NOVEMBER, 2005
- GROUNDWATER MONITORING WELL INSTALLED IN NOVEMBER, 2005
- SOIL GAS POINT SAMPLED IN AUGUST, 2003
- PERMANENT SOIL GAS SAMPLING WELL
- SUPPLEMENTAL SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL LOCATION
- SUPPLEMENTAL SHALLOW SOIL BORING LOCATION
- DEEP SOIL BORING AND GROUNDWATER MONITORING WELL LOCATION

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PROJECT/CLIENT
CARRIAGE CLEANTOWN
REMEDIAL INVESTIGATION REPORT
SPRINGS LAND COMPANY, LLC
1600 PENFIELD ROAD
PENFIELD, NEW YORK

DRAWING TITLE
SITE PLAN
WITH REMEDIAL
INVESTIGATION
SAMPLING LOCATIONS

ISSUED FOR: REVISION
SCALE: 1" = 20'
DESIGNED BY: DPN
DRAWN BY: GK
REVIEWED BY: DPN
DATE: JUNE 2009

PROJECT NUMBER
205237.01

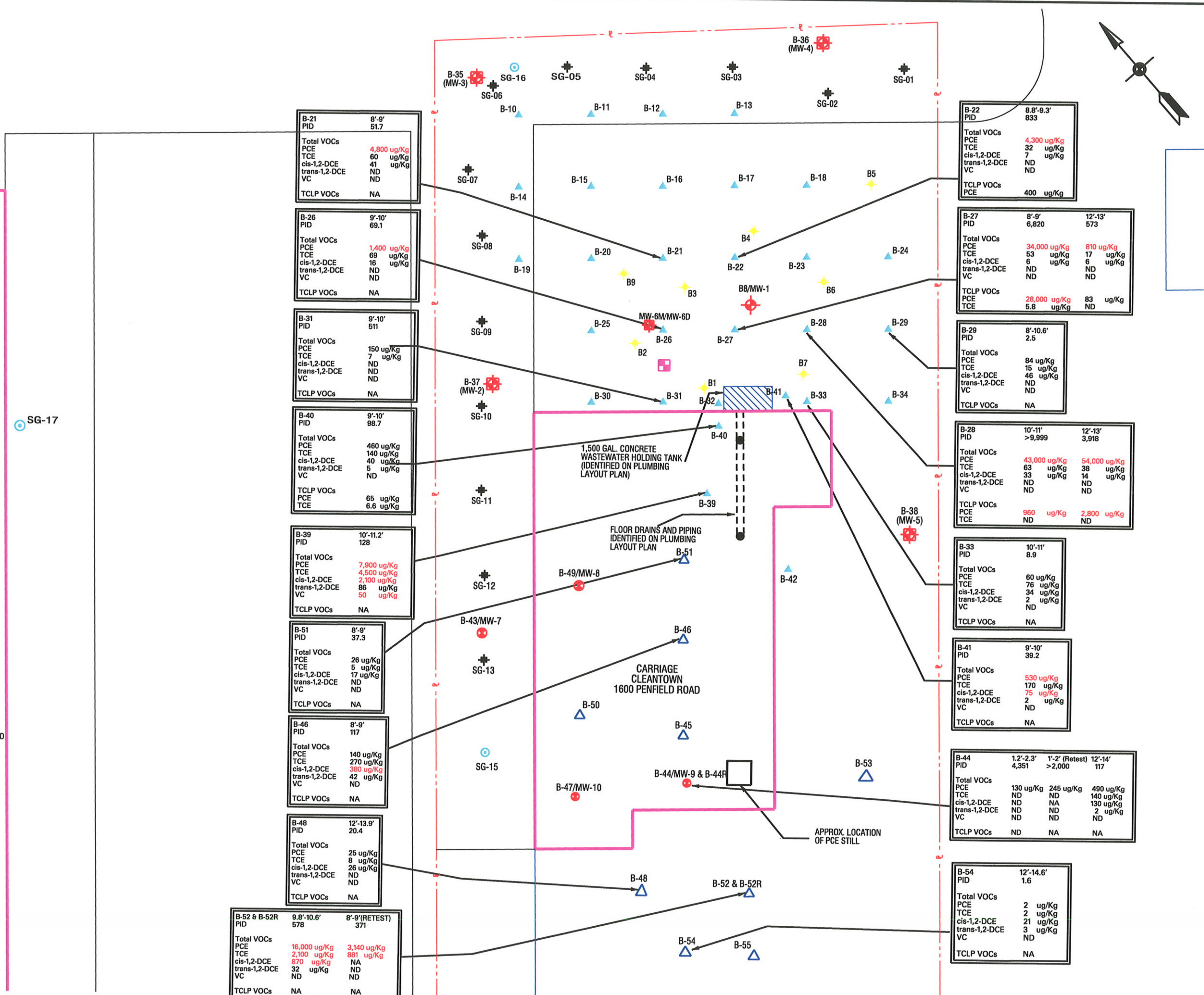
DRAWING NUMBER
FIGURE 4

SHEET 1 OF 1

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. SAMPLE RESULTS IN MICROGRAMS PER KILOGRAM (ug/KG) OR PARTS PER BILLION (PPB).
3. "ND" DENOTES NOT DETECTED - NO INDIVIDUAL TARGET COMPOUNDS DETECTED ABOVE ASSOCIATED METHOD DETECTION LIMIT.
4. ABBREVIATIONS ARE:
   - VOCs - Volatile Organic Compounds
   - TCLP - Toxicity Characteristic Leachate Procedure
   - PCE - Tetrachloroethene
   - TCE - Trichloroethene
   - DCE - Dichloroethene
   - VC - Vinyl Chloride
   - NA - Not Analyzed
5. EXCEEDANCES OF NYSDEC PART 375-6 PROTECTION OF GROUNDWATER STANDARDS ARE SHOWN IN RED.

OFFICE BUILDING
1598 PENFIELD ROAD



LEGEND

- PROPERTY LINE
- B3 — SOIL BORING ADVANCED IN AUGUST, 2002
- SOIL BORING CONVERTED TO SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL IN AUGUST, 2002
- SOIL BORING ADVANCED IN NOVEMBER, 2005
- GROUNDWATER MONITORING WELL INSTALLED IN NOVEMBER, 2005
- SOIL GAS POINT SAMPLED IN AUGUST, 2003
- PERMANENT SOIL GAS SAMPLING WELL
- SUPPLEMENTAL SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL LOCATION
- SUPPLEMENTAL SHALLOW SOIL BORING LOCATION
- SUPPLEMENTAL DEEP GROUNDWATER MONITORING WELL LOCATION

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PROJECT/CLIENT
CARRIAGE CLEANTOWN
REMEDIAL INVESTIGATION REPORT
SPRINGS LAND COMPANY, LLC
1600 PENFIELD ROAD
PENFIELD, NEW YORK

DRAWING TITLE
SITE PLAN WITH SHALLOW SOIL SAMPLING RESULTS

ISSUED FOR: REVISION
DATE: JUNE 2009
SCALE: 1" = 20'
DESIGNED BY: DPN
DRAWN BY: GK
REVIEWED BY: DPN

PROJECT NUMBER
205237.01

DRAWING NUMBER
FIGURE 5

SHEET 1 OF 1

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. SAMPLE RESULTS IN MICROGRAMS PER LITER (ug/L) OR PARTS PER BILLION (PPB).
3. "ND" DENOTES NOT DETECTED - NO INDIVIDUAL TARGET COMPOUNDS DETECTED ABOVE ASSOCIATED METHOD DETECTION LIMIT.
4. ABBREVIATIONS ARE:
   VOCs - Volatile Organic Compounds
   TCLP - Toxicity Characteristic Leachate Procedure
   PCE - Tetrachloroethene
   TCE - Trichloroethene
   DCE - Dichloroethene
   VC - Vinyl Chloride
   NA - Not Analyzed
5. EXCEEDANCES OF NYSDEC PART 703 GROUNDWATER STANDARDS ARE SHOWN IN RED.

OFFICE BUILDING
1598 PENFIELD ROAD

LEGEND

- PROPERTY LINE
- B3 — SOIL BORING ADVANCED IN AUGUST, 2002
- SOIL BORING CONVERTED TO SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL IN AUGUST, 2002
- SOIL BORING ADVANCED IN NOVEMBER, 2005
- GROUNDWATER MONITORING WELL INSTALLED IN NOVEMBER, 2005
- SOIL GAS POINT SAMPLED IN AUGUST, 2003
- PERMANENT SOIL GAS SAMPLING WELL
- SUPPLEMENTAL SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL LOCATION
- SUPPLEMENTAL SHALLOW SOIL BORING LOCATION
- SUPPLEMENTAL DEEP GROUNDWATER MONITORING WELL LOCATION
- ESTIMATED EXTENT OF GROUNDWATER THAT EXCEEDS SCGs

B-35/MW-3

GW ELEV.	89.6	89.77
	11/02/05	11/21/05
PCE	1.2 ug/L	ND
TCE	ND	ND
cis-1,2-DCE	0.58 ug/L	ND
trans-1,2-DCE	ND	ND
1,1-DCE	ND	ND
VC	0.76 ug/L	ND
Toluene	ND	ND

B-37/MW-2

GW ELEV.	89.58	89.75
	11/02/05	11/21/05
PCE	2,500 ug/L	1,900 ug/L
TCE	1,200 ug/L	900 ug/L
cis-1,2-DCE	2,100 ug/L	1,400 ug/L
trans-1,2-DCE	16 ug/L	10 ug/L
1,1-DCE	3.6 ug/L	2.7 ug/L
VC	25 ug/L	2.1 ug/L
Toluene	11 ug/L	1.3 ug/L

B-49/MW-8

GW ELEV.	99.71	
		4/05/06
PCE		29 ug/L
TCE		26 ug/L
cis-1,2-DCE		850 ug/L
trans-1,2-DCE		37 ug/L
1,1-DCE		ND
VC		94 ug/L
Toluene		0.58 ug/L

B-43/MW-7

GW ELEV.	96.71	
		4/05/06
PCE		ND
TCE		5.3 ug/L
cis-1,2-DCE		800 ug/L
trans-1,2-DCE		10 ug/L
1,1-DCE		1.7 ug/L
VC		130 ug/L
Toluene		ND

B-47/MW-10

GW ELEV.	*See Below*	
		4/05/06
PCE		92 ug/L
TCE		62 ug/L
cis-1,2-DCE		310 ug/L
trans-1,2-DCE		7.4 ug/L
1,1-DCE		0.76 ug/L
VC		84 ug/L
Toluene		ND

*MW-10 Groundwater Elevation appeared anomalous and was not included

B-36/MW-4

GW ELEV.	89.76	94.36
	11/02/05	11/21/05
PCE	ND	ND
TCE	ND	ND
cis-1,2-DCE	ND	ND
trans-1,2-DCE	ND	ND
1,1-DCE	ND	ND
VC	ND	ND
Toluene	ND	ND

B-8/MW-1

(NO GW ELEV.)

	8/28/02
PCE	142,000 ug/L
TCE	4,840 ug/L
cis-1,2-DCE	4,060 ug/L
trans-1,2-DCE	ND
1,1-DCE	ND
VC	ND
Toluene	ND

B-38/MW-5

GW ELEV.	89.73	89.87
	11/02/05	11/21/05
PCE	2.1 ug/L	1.9 ug/L
TCE	1.2 ug/L	1.1 ug/L
cis-1,2-DCE	2.5 ug/L	2.2 ug/L
trans-1,2-DCE	ND	ND
1,1-DCE	ND	ND
VC	1.1 ug/L	1.4 ug/L
Toluene	ND	ND

B-44/MW-9

GW ELEV.	98.86'	
		4/05/06
PCE		4,600 ug/L
TCE		5,300 ug/L
cis-1,2-DCE		4,900 ug/L
trans-1,2-DCE		760 ug/L
1,1-DCE		14 ug/L
VC		15 ug/L
Toluene		1.6 ug/L

B-52R-GW

PCE	1,340 ug/L
TCE	1,240 ug/L
cis-1,2-DCE	ND
trans-1,2-DCE	ND
1,1-DCE	ND
VC	ND
Toluene	ND

SG-01, SG-02, SG-03, SG-04, SG-05, SG-06, SG-07, SG-08, SG-09, SG-10, SG-11, SG-12, SG-13, SG-15, SG-16, SG-17

B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-24, B-25, B-26, B-27, B-28, B-29, B-30, B-31, B-32, B-33, B-34, B-35 (MW-3), B-36 (MW-4), B-37 (MW-2), B-38 (MW-5), B-39, B-40, B-41, B-42, B-43/MW-7, B-44/MW-9 & B-44R, B-45, B-46, B-47/MW-10, B-48, B-49/MW-8, B-50, B-51, B-52 & B-52R, B-53, B-54, B-55, B1, B2, B3, B4, B5, B6, B7, B8/MW-1, B9, MW-6M/MW-6D

APPARENT GROUNDWATER FLOW DIRECTION 11-2-2005

APPARENT GROUNDWATER FLOW DIRECTION 4-28-2006

APPARENT GROUNDWATER FLOW DIRECTION 4-28-2006

89.7, 89.85, 89.65, 89.6, 90, 90.15, 89.95

1,500 GAL. CONCRETE WASTEWATER HOLDING TANK (IDENTIFIED ON PLUMBING LAYOUT PLAN)

1,500 GAL. CONCRETE WASTEWATER HOLDING TANK

FLOOR DRAINS AND PIPING IDENTIFIED ON PLUMBING LAYOUT PLAN

AOC#3
(ESTIMATED EXTENT OF GROUNDWATER AND SATURATED SOIL THAT EXCEEDS SCGs

CARRIAGE CLEANTOWN
1600 PENFIELD ROAD

NO.	REVISION	BY	DATE
1	ADDRESS NYSDEC COMMENTS	RCN	5/8/09
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It is a violation of New York Education Law Article 145 Sec.7209 for any person, unless acting under the direction of a licensed architect, professional engineer or land surveyor, to alter an item in any way. If an item bearing the stamp of a licensed architect, engineer or land surveyor is altered, the altering architect, engineer or land surveyor must affix to the item his or her seal or stamp and the notation "altered by" followed by his or her signature and date of such alteration, and a specific description of the alteration.

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PROJECT/CLIENT
CARRIAGE CLEANTOWN
REMEDIAL INVESTIGATION REPORT
SPRINGS LAND COMPANY, LLC
1600 PENFIELD ROAD
PENFIELD, NEW YORK

DRAWING TITLE
SITE PLAN
WITH SHALLOW GROUNDWATER SAMPLING RESULTS AND GROUNDWATER CONTOURS

ISSUED FOR: REVISION
SCALE: 1" = 20'
DESIGNED BY: DPN
DRAWN BY: GK
REVIEWED BY: DPN
DATE: JUNE 2009

PROJECT NUMBER
205237.01

DRAWING NUMBER
FIGURE 6

SHEET 1 OF 1

PLOTDRVR=PL_TDRV$
MODEL=$MODEL$
PAPER=$PAPER$
DATE=$DATE$
TIME=$TIME$

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. SAMPLE RESULTS IN UNITS OF:
   ug/Kg = MICROGRAMS PER KILOGRAM
   ug/L = MICROGRAMS PER LITER
   ng/TRAP = NANOGRAMS PER TRAP
3. "ND" DENOTES NOT DETECTED - NO INDIVIDUAL TARGET COMPOUNDS DETECTED ABOVE ASSOCIATED METHOD DETECTION LIMIT.
4. ABBREVIATIONS ARE:
   VOCs - Volatile Organic Compounds
   TCLP - Toxicity Characteristic Leachate Procedure
   PCE - Tetrachloroethene
   TCE - Trichloroethene
   DCE - Dichloroethene
   VC - Vinyl Chloride
   NA - Not Analyzed
5. EXCEEDANCES ARE SHOWN IN RED.

OFFICE BUILDING
1598 PENFIELD ROAD

CARRIAGE CLEANTOWN
1600 PENFIELD ROAD

1,500 GAL. CONCRETE WASTEWATER HOLDING TANK (IDENTIFIED ON PLUMBING LAYOUT PLAN)

FLOOR DRAINS AND PIPING IDENTIFIED ON PLUMBING LAYOUT PLAN

APPROX. LOCATION OF PCE STILL

SG-16 (RESULTS IS ug/m³)	
Chloroform	1.57
1,2-Dichloropropane	ND
Methylene Chloride	17.5
Tetrachloroethene	8.45
1,1,1-Trichloroethane	ND
Benzene	9.76
Ethylbenzene	2.29
Toluene	15.1
m,p-Xylene	7.11
o-Xylene	2.54
Styrene	1.16
1,4-Dichlorobenzene	3.15
Acetone	261
2-Butanone	54.8
2-Hexanone	ND
4-Methyl-2-Pentanone	2.83
Carbon Disulfide	6.15
Freon 11	2.21

MW-6M/6D	6M (30'-40')	6D (62'-72')
PCE	19 ug/L	46 ug/L
TCE	2.3 ug/L	3.1 ug/L
cis-1,2-DCE	4.4 ug/L	ND
trans-1,2-DCE	ND	ND
VC	ND	ND
Acetone	2.5 ug/L J	ND
Chloroform	4.0 ug/L	0.82 ug/L J

MW-6M/6D	14' - 14.7'	20' - 21.1'	65' - 66.4'
PCE	ND	ND	ND
TCE	ND	ND	ND
cis-1,2-DCE	164	ND	ND
trans-1,2-DCE	ND	ND	ND
VC	ND	ND	ND

SG-17 (RESULTS IN ug/m³)	
Chloroform	1.27
1,2-Dichloropropane	ND
Methylene Chloride	8.90
Tetrachloroethene	ND
1,1,1-Trichloroethane	ND
Benzene	1.77
Ethylbenzene	2.58
Toluene	13.4
m,p-Xylene	7.11
o-Xylene	2.69
Styrene	1.51
1,4-Dichlorobenzene	1.84
Acetone	377
2-Butanone	69.5
2-Hexanone	1.92
4-Methyl-2-Pentanone	1.85
Carbon Disulfide	4.10
Freon 11	1.74

SG-15 (RESULTS IN ug/m³)	
Chloroform	14.9
1,2-Dichloropropane	0.989
Methylene Chloride	27.8
Tetrachloroethene	ND
1,1,1-Trichloroethane	1.85
Benzene	11.1
Ethylbenzene	2.11
Toluene	14.5
m,p-Xylene	6.20
o-Xylene	2.46
Styrene	1.34
1,4-Dichlorobenzene	2.76
Acetone	222
2-Butanone	52.4
2-Hexanone	ND
4-Methyl-2-Pentanone	1.51
Carbon Disulfide	2.56
Freon 11	ND

LEGEND

- PROPERTY LINE
- B3 — SOIL BORING ADVANCED IN AUGUST, 2002
- SOIL BORING CONVERTED TO SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL IN AUGUST, 2002
- SOIL BORING ADVANCED IN NOVEMBER, 2005
- GROUNDWATER MONITORING WELL INSTALLED IN NOVEMBER, 2005
- SOIL GAS POINT SAMPLED IN AUGUST, 2003
- PERMANENT SOIL GAS SAMPLING WELL
- SUPPLEMENTAL SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL LOCATION
- SUPPLEMENTAL SHALLOW SOIL BORING LOCATION
- SUPPLEMENTAL DEEP GROUNDWATER MONITORING WELL LOCATION

PLOTDRVR Civil-XM-Half-Color.pltcfg
MODEL Default
FILE PATH N:\Clifton Land Company\205237\Civil\Ustation Contract.dwg\Figure 7 fnl.dgn
DATE / TIME 7/21/2009 4:19:32 PM

NO	REVISION	BY	DATE
1	ADDRESS NYSDEC COMMENTS	RCN	6/8/09
2			
3			
4			
5			
6			

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PROJECT/CLIENT
CARRIAGE CLEANTOWN
REMEDIAL INVESTIGATION REPORT
SPRINGS LAND COMPANY, LLC
1600 PENFIELD ROAD
PENFIELD, NEW YORK

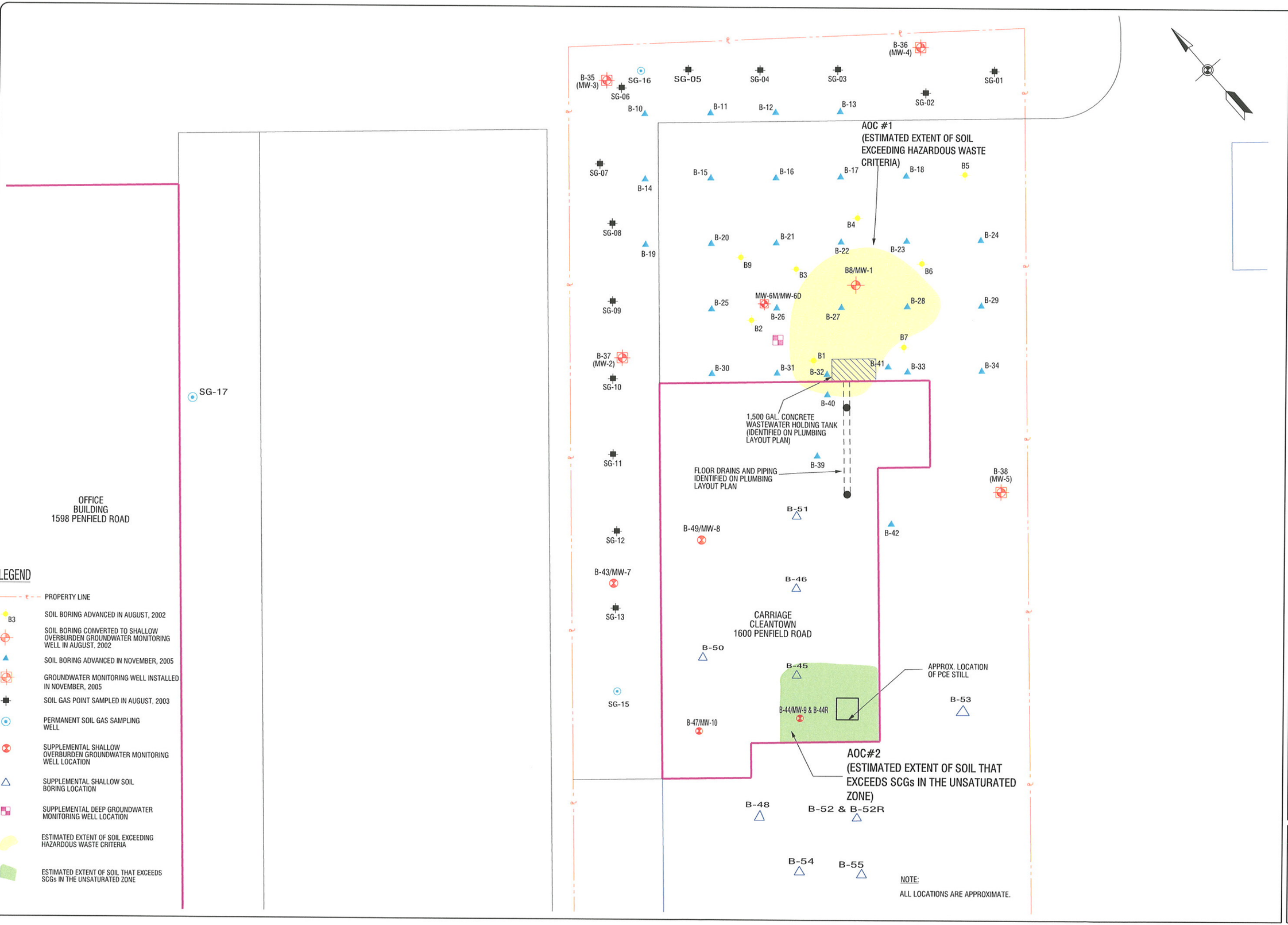
DRAWING TITLE
SITE PLAN
WITH SOIL GAS, DEEP SOIL AND GROUNDWATER SAMPLING RESULTS

ISSUED FOR: REVISION
SCALE: 1" = 20'
DESIGNED BY: DPN
DRAWN BY: GK
REVIEWED BY: DPN
DATE: JUNE 2009

PROJECT NUMBER
205237.01

DRAWING NUMBER
FIGURE 7

SHEET 1 OF 1



PLOTDRVR: Civil-XM-Half-Color.pltcfg
MODEL: Default
FILE PATH: N:\Clifton Land Company\205237\Civil\Istallion\Contract.dwg\Figure 8 fnl.dgn
DATE / TIME: 7/21/2009 4:21:48 PM

NO	REVISION	BY	DATE
1	ADDRESS NYSDEC COMMENTS	RCN	8/8/09
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PROJECT/CLIENT
CARRIAGE CLEANTOWN
REMEDIAL INVESTIGATION REPORT
SPRINGS LAND COMPANY, LLC
1600 PENFIELD ROAD
PENFIELD, NEW YORK

DRAWING TITLE
SITE PLAN
WITH ESTIMATED EXTENT OF VADOSE ZONE SOIL WHICH EXCEEDS SOIL CLEANUP GUIDELINES

ISSUED FOR: REVISION
SCALE: 1" = 20'
DESIGNED BY: DPN
DRAWN BY: OK
REVIEWED BY: DPN
DATE: JUNE 2009

PROJECT NUMBER
205237.01
DRAWING NUMBER
FIGURE 8
SHEET 1 OF 1

AOC#3
(ESTIMATED EXTENT OF GROUNDWATER AND SATURATED SOIL THAT EXCEEDS SCGs)

NOTE:
ALL LOCATIONS ARE APPROXIMATE.

LEGEND

- PROPERTY LINE
- B3 — SOIL BORING ADVANCED IN AUGUST, 2002
- SOIL BORING CONVERTED TO SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL IN AUGUST, 2002
- SOIL BORING ADVANCED IN NOVEMBER, 2005
- GROUNDWATER MONITORING WELL INSTALLED IN NOVEMBER, 2005
- SOIL GAS POINT SAMPLED IN AUGUST, 2003
- PERMANENT SOIL GAS SAMPLING WELL
- SUPPLEMENTAL SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL LOCATION
- SUPPLEMENTAL SHALLOW SOIL BORING LOCATION
- SUPPLEMENTAL DEEP GROUNDWATER MONITORING WELL LOCATION
- ESTIMATED EXTENT OF GROUNDWATER THAT EXCEEDS SCGs

NO	REVISION	BY	DATE
1	ADDRESS NYSDEC COMMENTS	RCN	8/6/09
2			
3			
4			
5			
6			

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PROJECT/CLIENT
CARRIAGE CLEANTOWN
REMEDIAL INVESTIGATION REPORT
SPRINGS LAND COMPANY, LLC
1600 PENFIELD ROAD
PENFIELD, NEW YORK

DRAWING TITLE
SITE PLAN
WITH ESTIMATED EXTENT OF GROUNDWATER THAT EXCEEDS SCGs

ISSUED FOR: REVISION
SCALE: 1" = 20'
DESIGNED BY: DPN
DRAWN BY: GK
REVIEWED BY: DPN
DATE: JUNE 2009

PROJECT NUMBER
205237.01

DRAWING NUMBER
FIGURE 9

SHEET 1 OF 1

PLOTDRVR: Civil-XM-Half-Color.pltcfg
MODEL: Default
FILE PATH: N:\Clifton Land Company\205237\Civil\Illustration\Contract.dwg\Figure 9 ha RCN.dgn
DATE / TIME: 7/21/2009 4:25:18 PM

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. SAMPLE RESULTS IN MICROGRAMS PER CUBIC METER (ug/m3) OR PARTS PER BILLION (PPB).
3. ABBREVIATIONS ARE:
   AOC - Area of Concern
   J - Value Approximated
   B - Analyte detected in method blank
5. RED TYPE DENOTES A DETECTED CONCENTRATION THAT EXCEEDS SUBPART 375-6 RPSCOs FOR THE PROTECTION OF GROUNDWATER.

   GREEN TYPE DENOTES A DETECTED CONCENTRATION THAT EXCEEDS THE SUBPART 375-6 RPSCOs FOR THE PROTECTION OF PUBLIC HEALTH COMMERCIAL WORKER RECEPTORS.

OFFICE BUILDING
1598 PENFIELD ROAD

SG-17

SW-3 (7.5')	(Results in ug/m³)
Acetone	210 J
Tetrachloroethene	4,700 B

BS-2 (9.0')	(Results in ug/m³)
Acetone	150 JB
Chloromethane	15 J
cis-1,2-Dichloroethene	32 J
Tetrachloroethene	9,300
Trichloroethene	75 J

SW-4 (8.0')	(Results in ug/m³)
Acetone	170 JB
Tetrachloroethene	1,600

BS-1 (12.0')	(Results in ug/m³)
Methylene chloride	5,400,000 B
Tetrachloroethene	130,000,000

SW-2 (7.5')	(Results in ug/m³)
cis-1,2-Dichloroethene	250 J
Methylene chloride	370 B
Tetrachloroethene	3,200
Trichloroethene	98 J

SW-1 (8.0')	(Results in ug/m³)
Methylene chloride	2,600 B
Tetrachloroethene	46,000

B-35 (MW-3), B-36 (MW-4), B-37 (MW-2)

SG-01, SG-02, SG-03, SG-04, SG-05, SG-06, SG-07, SG-08, SG-09, SG-10, SG-11, SG-12, SG-13, SG-15, SG-16

B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-24, B-25, B-26, B-27, B-28, B-29, B-30, B-31, B-32, B-33, B-34, B-39, B-40, B-42, B-45, B-46, B-48, B-50, B-51, B-52 & B-52R, B-53, B-54, B-55

B1, B2, B3, B4, B5, B6, B7, B8/MW-1, B9

SW-1, SW-2, SW-3, SW-4, BS-1, BS-2

MW-6M/MW-6D, B-44/MW-9 & B-44R, B-47/MW-10, B-49/MW-8, B-43/MW-7

B-38 (MW-5)

LIMITS OF IRM EXCAVATION

IMPORTED CLEAN SOIL PILE

1,500 GAL. CONCRETE WASTEWATER HOLDING TANK (IDENTIFIED ON PLUMBING LAYOUT PLAN)

FLOOR DRAINS AND PIPING IDENTIFIED ON PLUMBING LAYOUT PLAN

FRAC TANK STAGING LOCATION

CARRIAGE CLEANTOWN 1600 PENFIELD ROAD

APPROX. LOCATION OF PCE STILL

AOC#2
(ESTIMATED EXTENT OF SOIL THAT EXCEEDS SCGs IN THE UNSATURATED ZONE)

SOIL PILE #1

SOIL PILE #2

SOIL PILE #3

LEGEND

- PROPERTY LINE
- B3 — SOIL BORING ADVANCED IN AUGUST, 2002
- SOIL BORING CONVERTED TO SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL IN AUGUST, 2002
- SOIL BORING ADVANCED IN NOVEMBER, 2005
- GROUNDWATER MONITORING WELL INSTALLED IN NOVEMBER, 2005
- SOIL GAS POINT SAMPLED IN AUGUST, 2003
- PERMANENT SOIL GAS SAMPLING WELL
- SUPPLEMENTAL SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL LOCATION
- SUPPLEMENTAL SHALLOW SOIL BORING LOCATION
- SUPPLEMENTAL DEEP GROUNDWATER MONITORING WELL LOCATION
- LIMITS OF IRM EXCAVATION
- ESTIMATED EXTENT OF SOIL THAT EXCEEDS SCGs IN THE UNSATURATED ZONE

FILE PATH: N:\Clifton Land Company\205237\Cnh\Usation\Contract.dwg\Figure 10.dwg

NO.	REVISION	BY	DATE
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PROJECT/CLIENT
CARRIAGE CLEANTOWN
REMEDIAL INVESTIGATION REPORT
SPRINGS LAND COMPANY, LLC
1600 PENFIELD ROAD
PENFIELD, NEW YORK

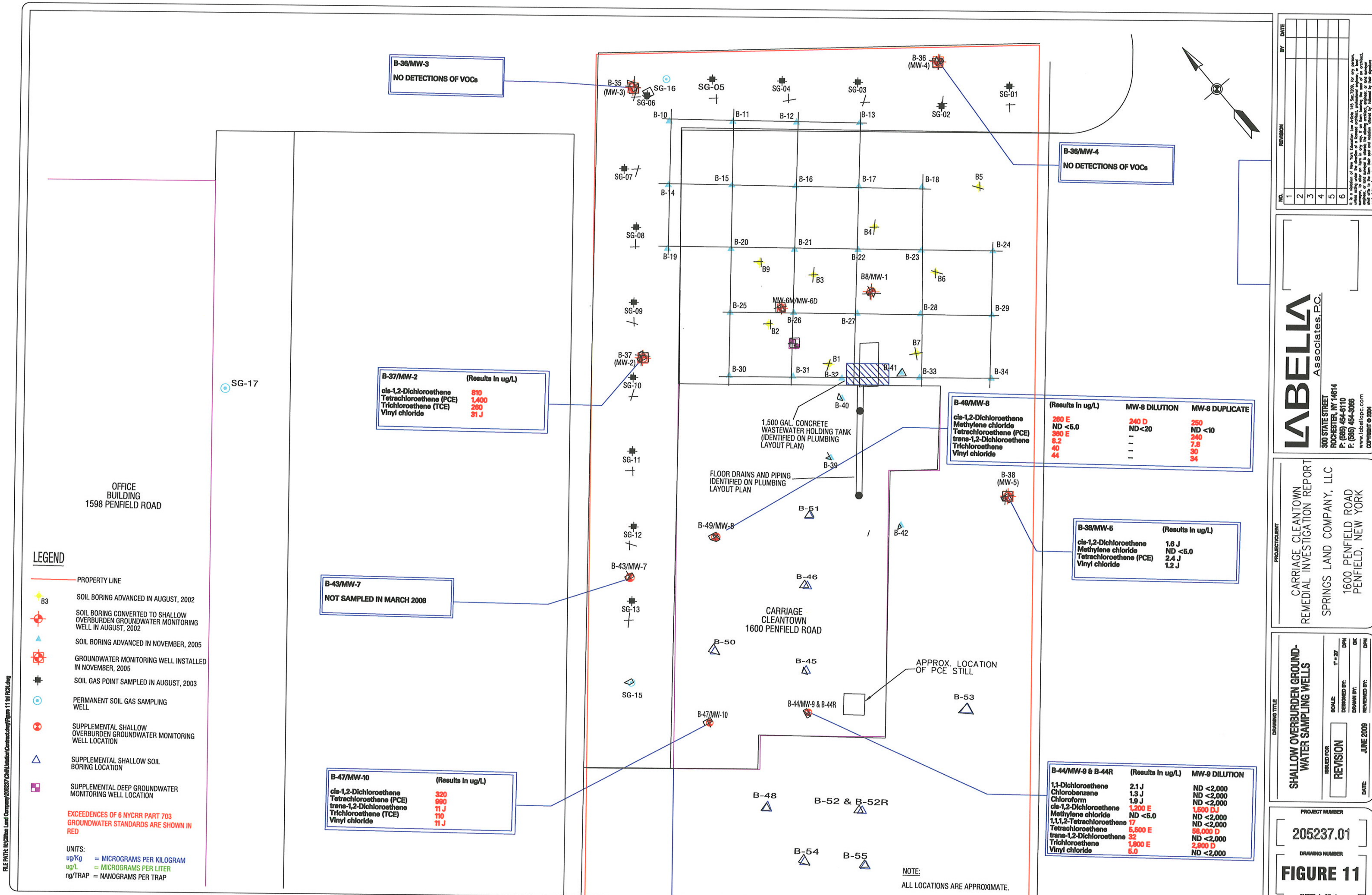
DRAWING TITLE
IRM SOIL REMOVAL
SITE PLAN

ISSUED FOR: DRAFT
SCALE: 1" = 20'
DESIGNED BY: DPH
DRAWN BY: ED
REVIEWED BY: DP
DATE: JUNE 2009

PROJECT NUMBER
205237.01

DRAWING NUMBER
FIGURE 10

SHEET 1 OF 1


B-36/MW-3
NO DETECTIONS OF VOCs
B-36/MW-4
NO DETECTIONS OF VOCs
B-37/MW-2 (Results in ug/L)
cis-1,2-Dichloroethene 810
Tetrachloroethene (PCE) 1,400
Trichloroethene (TCE) 260
Vinyl chloride 31 J
B-49/MW-8 (Results in ug/L) MW-8 DILUTION MW-8 DUPLICATE
cis-1,2-Dichloroethene 280 E 240 D 250
Methylene chloride ND <5.0 ND<20 ND <10
Tetrachloroethene (PCE) 360 E -- 240
trans-1,2-Dichloroethene 8.2 -- 7.8
Trichloroethene 40 -- 30
Vinyl chloride 44 -- 34
B-38/MW-5 (Results in ug/L)
cis-1,2-Dichloroethene 1.6 J
Methylene chloride ND <5.0
Tetrachloroethene (PCE) 2.4 J
Vinyl chloride 1.2 J
B-43/MW-7
NOT SAMPLED IN MARCH 2008
B-47/MW-10 (Results in ug/L)
cis-1,2-Dichloroethene 320
Tetrachloroethene (PCE) 990
trans-1,2-Dichloroethene 11 J
Trichloroethene (TCE) 110
Vinyl chloride 11 J
B-44/MW-9 & B-44R (Results in ug/L) MW-9 DILUTION
1,1-Dichloroethene 2.1 J ND <2,000
Chlorobenzene 1.3 J ND <2,000
Chloroform 1.9 J ND <2,000
cis-1,2-Dichloroethene 1,200 E 1,500 DJ
Methylene chloride ND <5.0 ND <2,000
1,1,1,2-Tetrachloroethene 17 ND <2,000
Tetrachloroethene 5,500 E 58,000 D
trans-1,2-Dichloroethene 32 ND <2,000
Trichloroethene 1,800 E 2,900 D
Vinyl chloride 5.0 ND <2,000
OFFICE BUILDING 1598 PENFIELD ROAD
CARRIAGE CLEANTOWN 1600 PENFIELD ROAD
1,500 GAL. CONCRETE WASTEWATER HOLDING TANK (IDENTIFIED ON PLUMBING LAYOUT PLAN)
FLOOR DRAINS AND PIPING IDENTIFIED ON PLUMBING LAYOUT PLAN
APPROX. LOCATION OF PCE STILL
SG-01 SG-02 SG-03 SG-04 SG-05 SG-06 SG-07 SG-08 SG-09 SG-10 SG-11 SG-12 SG-13 SG-15 SG-16 SG-17
B-10 B-11 B-12 B-13 B-14 B-15 B-16 B-17 B-18 B-19 B-20 B-21 B-22 B-23 B-24 B-25 B-26 B-27 B-28 B-29 B-30 B-31 B-32 B-33 B-34 B-39 B-40 B-41 B-42
B1 B2 B3 B4 B5 B6 B7 B9 B8/MW-1 MW-6M/MW-6D
B-35 (MW-3) B-36 (MW-4) B-37 (MW-2) B-38 (MW-5) B-43/MW-7 B-49/MW-8 B-47/MW-10 B-44/MW-9 & B-44R
B-45 B-46 B-48 B-50 B-51 B-52 & B-52R B-53 B-54 B-55
LEGEND
PROPERTY LINE
SOIL BORING ADVANCED IN AUGUST, 2002
SOIL BORING CONVERTED TO SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL IN AUGUST, 2002
SOIL BORING ADVANCED IN NOVEMBER, 2005
GROUNDWATER MONITORING WELL INSTALLED IN NOVEMBER, 2005
SOIL GAS POINT SAMPLED IN AUGUST, 2003
PERMANENT SOIL GAS SAMPLING WELL
SUPPLEMENTAL SHALLOW OVERBURDEN GROUNDWATER MONITORING WELL LOCATION
SUPPLEMENTAL SHALLOW SOIL BORING LOCATION
SUPPLEMENTAL DEEP GROUNDWATER MONITORING WELL LOCATION
EXCEEDENCES OF 6 NYCRR PART 703 GROUNDWATER STANDARDS ARE SHOWN IN RED
UNITS:
ug/Kg = MICROGRAMS PER KILOGRAM
ug/L = MICROGRAMS PER LITER
ng/TRAP = NANOGRAMS PER TRAP
NOTE:
ALL LOCATIONS ARE APPROXIMATE.
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CARRIAGE CLEANTOWN REMEDIAL INVESTIGATION REPORT
SPRINGS LAND COMPANY, LLC
1600 PENFIELD ROAD PENFIELD, NEW YORK
SHALLOW OVERBURDEN GROUND-WATER SAMPLING WELLS
ISSUED FOR REVISION
DATE: JUNE 2009
PROJECT NUMBER 205237.01
DRAWING NUMBER FIGURE 11
SHEET 1 OF 1

LABELLA
LaBella Associates, P.C.
300 State Street
Rochester, New York 14614

Appendix 1
Soil Boring Logs

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-10
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 1312 TO 1350
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.8-ft.	0.0-ft	**TOPSOIL** Dark brown f SAND, little(-) Silt, organics present (roots, root traces, humus), damp, no odors.	0.4	
			0.4-ft.	**ALLUVIUM** Brown f SAND, trace(+) Silt, damp, no odors.	0.1	
2				.... Grading To .... Brown mf$^{(+)}$ SAND, damp to wet, no odors.	0.1	
4	S-2 4' - 8'	2.7-ft.	4.0-ft.	Brown SILT, some f Sand, wet to saturated @ ~5.5-ft., no odors.	0.1	
				.... Grading To	0.1	
6				Brown Clayey SILT, trace f Sand, saturated, no odors.	0.0	
8	S-3 8' - 12'	2.4-ft.	8.0-ft.	As above, saturated, no odors.	0.1	
					0.8	
10			9.5-ft.	Gray cm$^{(+)}$f subrounded to angular GRAVEL, some cmf Sand, saturated, no odors.		
12	S-4 12' - 14'	0.7-ft.	12.0-ft.	Gray cm SAND, little cm$^{(+)}$f subrounded to subangular Gravel, saturated, no odors.	0.0	
14				End of Boring @ 14.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				14.0-FT.	Approx. 5.5-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-10

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-11
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 1245 TO 1310
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.1-ft.	0.0-ft	**TOPSOIL** Dark brown SILT, some f Sand, trace(+) f Gravel, organics present (roots, root traces, humus) damp, no odors.	0.7	
			0.4-ft.	**ALLUVIUM** Brown SILT, some f Sand, damp, no odors.	0.1	
2				.... Grading To	0.2	
				Brown and gray mottled SILT, wet, no odors.		
4	S-2 4' - 8'	3.2-ft.	4.0-ft.	As above, wet to saturated @ 5.0-ft., no odors..	0.2	
				.... Grading To	0.1	
6				Brownish-gray Clayey SILT, saturated, no odors.	0.0	
8	S-3 8' - 12'	2.0-ft.	8.0-ft.	As above, saturated, no odors. .... Grading To	0.1	
				Grayish-brown SILT, trace f Sand, saturated, no odors.		
			9.3-ft.	Gray cmf SAND, little mf angular to subrounded Gravel, saturated, no odors.	0.1	
10						
12				Borehole caves in to 8.8-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				12.0-FT.	Approx. 5.0-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-11

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-12
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 1225 TO 1245
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.9-ft.	0.0-ft	**TOPSOIL** Dark brown f SAND, little Silt, trace f Gravel, organics present (roots, root traces, humus), moist to damp, no odors.	0.2	
			0.3-ft.	Black f GRAVEL (Asphalt fragments), moist, no odors.	0.0	
2			0.4-ft.	**ALLUVIUM** Brown f SAND, trace(-) to trace(+) Silt, damp, no odors.	0.1	
4	S-2 4' - 8'	3.0-ft.	4.0-ft.	Brown and gray mottled SILT, little(-) f Sand, wet to saturated @ ~5.2-ft., no odors.	0.1	
				. . . . Grading To	0.2	
6				Brownish-gray Clayey SILT, saturated, no odors.	0.3	
8				Borehole caves in to 2.4-ft. BGS. End of Boring @ 8.0-ft. BGS		
10						
12						
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				8.0-FT.	Approx. 5.2-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-13
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 1134 TO 1205
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	1.5-ft.	0.0-ft	**TOPSOIL** Dark brown f SAND, trace(+) Silt, organics present (roots, root traces, humus), damp, moderate chlorinated solvent odor.	253	
			0.6-ft.	**ALLUVIUM** Grayish-brown f SAND, little(-) Silt, damp to wet, no odors.	7.4	
2						
4	S-2 4' - 8'	3.4-ft.	4.0-ft.	Gray and brown mottled SILT to Clayey SILT, trace(-) f Sand, wet to saturated @ ~4.3-ft., no odors.	3.2	
					2.4	
6					1.2	
8				Borehole caves in to 4.0-ft. BGS. End of Boring @ 8.0-ft. BGS		
10						
12						
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				8.0-FT.	Approx. 4.3-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
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300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-14
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 1425 TO 1445
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.7-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	35.1	
			0.2-ft.	Brown cmf SAND, little(+) mf subrounded to angular Gravel, moist, no odors.		
				ALLUVIUM	0.9	
			0.6-ft.	Brown f SAND, trace Silt, damp, no odors.		
2				. . . . Grading To	4.1	
				Brown mf SAND, damp to wet, no odors.		
4	S-2 4' - 8'	3.2-ft.	4.0-ft.	As above, wet to saturated @ 4.9-ft., no odors..	20.3	
					31.4	
6			6.7-ft.	Brownish-gray Clayey SILT, saturated, no odors.	9.6	
8	S-3 8' - 12'	1.9-ft.	8.0-ft.	Gray Clayey SILT, saturated, no odors.		
				. . . . Grading To	2.0	
				Gray $mf^{(+)}$ SAND, trace(-) Silt, saturated, no odors.	1.7	
			9.7-ft.	Gray cmf SAND and cmf angular to subangular GRAVEL, saturated, no odors.		
10						
12				Borehole caves in to 7.5-ft. BGS.		
				End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 4.9-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-14

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-15
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 1407 TO 1423
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.8-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	0.9	
			0.2-ft.	Dark brown cmf SAND, little mf angular to subrounded Gravel, moist, no odors.		
				ALLUVIUM	0.9	
			0.9-ft.	Brown f SAND, trace Silt, damp, no odors.		
2				. . . . Grading To		
				Brown mf SAND, damp to wet, no odors.	0.3	
			2.8-ft.	Brownish-gray Clayey SILT, wet, no odors.		
4	S-2 4' - 8'	3.2-ft.	4.0-ft.	Brown and gray mottled Clayey SILT, saturated, no odors.	4.2	
				. . . . Grading To		
				Brown and gray mottled SILT, saturated, no odors.	2.6	
6						
			6.2-ft.	Brown mf SAND, little Clayey Silt, saturated, no odors.	1.0	
8	S-3 8' - 12'	2.6-ft.	8.0-ft.	Gray Clayey SILT (Includes trace peat and wood fragments), saturated, no odors.		
				. . . . Grading To	0.1	
				Brownish-gray SILT, little(-) f Sand (Includes trace(-) peat and wood fragments), saturated, no odors.	0.1	
10			10.0-ft.	Gray cmf SAND and cmf angular to subangular GRAVEL, saturated, no odors.	0.1	
12				Borehole caves in to 8.6-ft. BGS.		
				End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 4.0-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-15

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-16
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 1009 TO 1040
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.4-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	9.1	
			0.2-ft.	Dark brown cmf SAND, some mf subangular Gravel, moist, no odors.		
				ALLUVIUM	1.7	
			0.6-ft.	Brown mf(+) SAND, trace(+) mf subrounded to subangular Gravel, moist to damp, no odors.		
2					2.1	
4	S-2 4' - 8'	3.6-ft.	4.0-ft.	Brown and gray mottled SILT, wet to saturated @ ~4.8-ft., no odors.	0.1	
				.... Grading To	0.1	
				Brown Clayey SILT, saturated, no odors.		
6				.... Grading To	0.1	
				Brown and gray mottled SILT, saturated, no odors.	0.0	
8	S-3 8' - 12'	2.1-ft.	8.0-ft.	Brownish-gray Clayey SILT, trace f Sand, saturated, no odors.	0.1	
					0.1	
			9.4-ft.	Gray cmf SAND and cmf subrounded to angular GRAVEL, saturated, no odors.		
10					0.4	
12	S-4 12' - 15'	1.3-ft.	12.0-ft.	As above, saturated, no odors.	0.8	
					0.1	
14						
				End of Boring @ 15.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				15.0-FT.	Approx. 4.8-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
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m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-16

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-17
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 0930 TO 1005
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	1.5-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	1.4	
			0.2-ft.	Dark brown cmf SAND, some cmf angular to subangular Gravel, moist, no odors.		
				ALLUVIUM	2.2	
			0.7-ft.	Brown f SAND, trace Silt, moist, no odors.		
2				. . . . Grading To		
				Brownish-gray SILT, trace(+) f Sand, damp, no odors.		
4	S-2 4' - 8'	3.3-ft.	4.0-ft.	As above, damp, no odors.	1.7	
				. . . . Grading To	0.9	
				Brown and gray mottled Clayey SILT, saturated @ ~5.0-ft., no odors.		
6					0.6	
					0.8	
8	S-3 8' - 12'	2.5-ft.	8.0-ft.	Brown f SAND, saturated, no odors.		
			8.5-ft.	Brown Clayey SILT, saturated, no odors.	2.0	
				. . . . Grading To		
				Brownish-gray SILT, saturated, no odors.	0.5	
10			10.2-ft.	Gray cmf SAND, some cmf angular to subrounded Gravel, saturated, no odors.	6.3	
12	S-4 12' - 15'	1.1-ft.	12.0-ft.	As above, saturated, no odors.	2.8	
14						
				End of Boring @ 15.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				15.0-FT.	Approx. 5.0-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
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trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-17

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-18
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 1105 TO 1130
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.7-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	0.3	
				BURIED TOPSOIL		
			0.2-ft.	Brown cmf SAND, little mf subrounded to angular Gravel, (roots, root traces, humus), moist to damp, no odors.	1.8	
2				**ALLUVIUM**		
			0.8-ft.	Brown SILT, little f Sand, damp, no odors.	1.9	
			1.0-ft	Brown mf(+) SAND, damp to wet, no odors.		
			2.6-ft.	Dark grayish-brown SILT, wet, no odors.		
4	S-2 4' - 8'	3.1-ft.	4.0-ft.	Brown SILT, little(-) f Sand, wet to saturated @ ~4.9-ft., no odors.	0.4	
				.... Grading To	0.4	
6				Brown with gray mottling Clayey SILT, saturated, no odors.	3.7	
8	S-3 8' - 12'	1.9-ft.	8.0-ft.	As above, but grayish-brown, saturated, no odors.	0.4	
			9.3-ft.	Gray cmf angular to subangular GRAVEL, little cmf Sand, saturated, no odors.	1.0	
10						
12				Borehole caves in to 8.8-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 4.9-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-18

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-19
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 1450 TO 1510
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.6-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	8.4	
			0.2-ft.	Dark brown cmf SAND, some(-) mf subangular Gravel, moist, no odors.		
				ALLUVIUM	11.7	
			0.7-ft.	Brown f SAND, damp, no odors.		
2				. . . . Grading To		
				Brown mf SAND, wet, no odors.	10.4	
4	S-2 4' - 8'	3.2-ft.	4.0-ft.	As above, wet, no odors.		
					4.3	
			4.7-ft.	Brown and gray mottled SILT, wet to saturated @ ~5.3-ft., no odors.		
					0.4	
				. . . . Grading To		
6				Brown and gray mottled Clayey SILT, saturated, no odors.	0.3	
8	S-3 8' - 12'	2.5-ft.	8.0-ft.	Light gray Clayey SILT, saturated, no odors.		
					0.4	
					0.2	
10			9.9-ft.	Gray cmf angular to subangular GRAVEL, some cmf Sand, saturated, no odors.		
					0.1	
12				Borehole caves in to 8.8-ft. BGS.		
				End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 5.3-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-19

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-20
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 1319 TO 1407
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.0-ft.	0.0-ft	**FILL MATERIAL** Asphalt Pavement - Not sampled	2.0	
			0.2-ft.	Dark brown cmf SAND, trace(+) mf subrounded Gravel, moist, no odors.	3.5	
			0.4-ft.	**ALLUVIUM** Brown f SAND, trace Silt, moist, no odors.		
2				. . . . Grading To . . . . Brown mf(+) SAND, damp, no odors.		
4	S-2 4' - 8'	3.0-ft.	4.0-ft.	Brown SILT, trace(+) f Sand, wet to saturated @ ~5.7-ft., no odors.	0.7	
				. . . . Grading To	0.7	
6				Brown Clayey SILT, saturated, no odors.	0.5	
8	S-3 8' - 12'	1.7-ft.	8.0-ft.	Gray Clayey SILT, saturated, no odors.	0.7	
				. . . . Grading To	0.5	
				Gray SILT, trace f Sand, saturated, no odors.		
10			9.5-ft.	Gray cmf angular to subrounded GRAVEL, some(+) cmf Sand, saturated, no odors.		
12				Borehole caves in to 7.5-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 5.7-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-20

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-21
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 1045 TO 1040
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.2-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	7.7	
			0.2-ft.	Dark brown cmf SAND, little mf(+) angular to subangular Gravel, moist, no odors.		
				ALLUVIUM	38.7	
			0.8-ft.	Brown f SAND, trace(-) Silt, damp, no odors.		
2						
4	S-2 4' - 8'	2.8-ft.	4.0-ft.	Brown mf SAND, wet, no odors.	10.1	
			4.6-ft.	Brown with little gray mottling SILT, wet to saturated @ ~5.2-ft., no odors.	14.9	
				.... Grading To		
6				Brown with trace gray mottling Clayey SILT, saturated, no odors.	10.6	
8	S-3 8' - 12'	2.1-ft.	8.0-ft.	Brown SILT, trace(-) f Sand, saturated, very slight chlorinated solvent odor.		
				.... Grading To	51.7	
				Brown SILT, little(-) f Sand, saturated, no odors		
			9.1-ft.	Gray cmf subrounded to angular GRAVEL and cmf SAND, saturated, no odors.	11.3	
10						
12	S-4 12' - 15'	0.8-ft.	12.0-ft.	As above, saturated, no odors.	0.9	
14						
				End of Boring @ 15.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				15.0-FT.	Approx. 4.8-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-21

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-22
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 0901 TO 0930
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.4-ft.	0.0-ft 0.2-ft.	**FILL MATERIAL** Asphalt Pavement - Not sampled Dark brown cmf SAND, little(+) mf subrounded to angular Gravel, moist to damp, very slight chlorinated solvent odor.	65.8 143	
2			1.2-ft.	**ALLUVIUM** Brown f SAND, damp to wet, slight chlorinated solvent odor.		
4	S-2 4' - 8'	3.1-ft.	4.0-ft. 4.2-ft.	As above, wet, very slight chlorinated solvent odor. Brown Clayey SILT, trace(-) f Sand, wet to saturated @ ~5.2-ft., very slight chlorinated solvent odor.	35.1 68.1	
6				. . . . Grading To . . . . Brown SILT, little(-) f Sand, saturated, very slight chlorinated solvent odor.	64.2	
8	S-3 8' - 12'	1.3-ft.	8.0-ft. 8.9-ft.	As above, saturated, slight chlorinated solvent odor. Gray cm$^{(+)}$f subrounded to subangular GRAVEL and cmf SAND, saturated, moderate chlorinated solvent odor.	117 833	
10						
12	S-4 12' - 15'	1.3-ft.	12.0-ft.	As above, saturated, very slight chlorinated solvent odor.	29.4	
14				End of Boring @ 15.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				15.0-FT.	Approx. 4.8-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
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trace = 1 to 10%
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m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-22

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-23
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 1025 TO 1100
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.5-ft.	0.0-ft	**FILL MATERIAL** Asphalt Pavement - Not sampled	5.3	
			0.2-ft.	Brown cmf SAND, little(+) cmf subrounded to angular Gravel, damp, no odors.	12.9	
			0.8-ft.	**ALLUVIUM** Brown f SAND, trace mf subrounded to angular Gravel, damp to wet, no odors to very slight chlorinated solvent odor.		
2					46.4	
4	S-2 4' - 8'	3.7-ft.	4.0-ft.	Brown m(+)f SAND, little(+) Silt, wet, no odors.	28.2	
			4.6-ft.	Brown SILT, some(-) f Sand, wet to saturated @ ~5.4-ft., no odors.	21.3	
				.... Grading To		
6				Brown and gray mottled SILT, saturated, no odors.	19.9	
					18.9	
8	S-3 8' - 12'	2.7-ft.	8.0-ft.	Brown m(+)f SAND, saturated, no odors.	20.1	
			9.0-ft.	Brown SILT, trace mf Sand, saturated, no odors.	29.8	
10			10.1-ft.	Brownish-gray cm(+)f angular to subrounded GRAVEL, some(-) cmf Sand, saturated, no odors.	47.1	
12	S-4 12' - 14'	2.2-ft.	12.0-ft.	As above, saturated, no odors.	2.1	
				.... Grading To	2.0	
14				Gray c(+)m SAND, trace(-) f Gravel, saturated, no odors.		
				End of Boring @ 15.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				15.0-FT.	Approx. 5.4-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-23

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-24
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 0850 TO 0920
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.8-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	1.6	
			0.2-ft.	Brown cm(+)f SAND, some(-) mf angular to subrounded Gravel, moist, no odors.		
			0.9-ft.	Brown mf(+) SAND, trace Silt, damp to wet, no odors.	7.9	
2					8.6	
4	S-2 4' - 8'	3.7-ft.	4.0-ft.	Gray to brown SILT, trace f Sand, wet to saturated @ ~6.0-ft., no odors.	6.4	
				.... Grading To	3.2	
				Brown and gray mottled Clayey SILT, trace(-) f Sand, saturated, no odors.		
6					5.0	
					9.3	
8	S-3 8' - 12'	2.6-ft.	8.0-ft.	As above, saturated, no odors.		
				.... Grading To	2.2	
				Brown SILT, trace f Sand, saturated, no odors.		
			9.2-ft.	Gray cm(+)f SAND and cmf angular to subrounded GRAVEL, saturated, no odors.	1.5	
10					1.2	
12	S-4 12' - 14'	2.0-ft.	12.0-ft.	As above, saturated, no odors.	0.4	
			13.1-ft	Gray cm(+)f SAND, saturated, no odors.	0.3	
				.... Grading To		
14				Gray mf SAND, saturated, no odors.		
				Borehole caves in to 10.1-ft. BGS.		
				End of Boring @ 15.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				15.0-FT.	Approx. 6.0-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
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little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-24

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-25
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 1303 TO 1318
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.4-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	2.9	
			0.2-ft.	Brown cmf SAND, little mf subrounded to subangular Gravel, moist, no odors.		
				ALLUVIUM	2.0	
			1.0-ft.	Brown f SAND, trace Silt, moist, no odors.		
2				. . . . Grading To		
				Brown mf(+) SAND, damp, no odors.	1.6	
4	S-2 4' - 8'	3.0-ft.	4.0-ft.	As above, damp to wet, no odors.	2.1	
			4.6-ft.	Brown SILT, trace f Sand, wet to saturated @ ~6.1-ft., no odors.	1.7	
6					1.3	
8	S-3 8' - 12'	3.1-ft.	8.0-ft.	As above, saturated, no odors.		
				. . . . Grading To	4.0	
				Brown and gray mottled Clayey SILT, saturated, no odors.	2.6	
10						
			10.5-ft.	Gray mf SAND, saturated, no odors.	3.1	
			10.9-ft.	Gray cm(+)f SAND and cmf subrounded to angular GRAVEL, saturated, no odors.		
12				Borehole caves in to 8.4-ft. BGS.		
				End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 6.1-FT.

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
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BGS = Below the Ground Surface
NA = Not Applicable

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-26
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 1120 TO 1140
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.7-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	5.9	
			0.2-ft.	Dark brown cmf SAND, little(+) cmf angular to subrounded Gravel, moist, no odors.		
				ALLUVIUM	14.6	
			0.8-ft.	Brown f SAND, trace c angular Gravel, moist to damp, no odors.		
2				. . . . Grading To		
				Brown mf SAND, damp, no odors.	14.4	
4	S-2 4' - 8'	3.3-ft.	4.0-ft.	Brown f SAND, trace Silt, damp to wet, no odors.	15.2	
			4.8-ft.	Brown with little gray mottling SILT, wet to saturated @ ~5.6-ft., no odors.	11.9	
6					10.0	
8	S-3 8' - 12'	2.0-ft.	8.0-ft.	As above, saturated, no odors.		
				. . . . Grading To	43.7	
				Brown mf SAND, trace Silt, saturated, no odors.		
			9.2-ft.	Gray cmf SAND and cmf angular to subangular GRAVEL, saturated, no odors.	69.1	
10						
12	S-4 12' - 14'	0.2-ft.	12.0-ft.	As above, saturated, no odors.	11.1	
14						
				End of Boring @ 15.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				15.0-FT.	Approx. 5.6-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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NA = Not Applicable

BORING: B-26

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-27
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 0823 TO 0840
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.7-ft.	0.0-ft	**FILL MATERIAL** Asphalt Pavement - Not sampled	25.4	
			0.2-ft.	Dark brown cmf SAND, little(-) mf subrounded to angular Gravel, moist, very slight chlorinated solvent odor.	149	
2			0.6-ft.	**ALLUVIUM** Brown f SAND, little Silt, damp to wet, slight chlorinated solvent odor.	223	
4	S-2 4' - 8'	2.9-ft.	4.0-ft.	As above, wet, moderate chlorinated solvent odor.	300	
			5.0-ft.	Brown SILT, wet to saturated @ ~5.4-ft., moderate to strong chlorinated solvent odor.	273	
6					1,374	
8	S-3 8' - 12'	2.0-ft.	8.0-ft.	As above, saturated, strong chlorinated solvent odor. . . . . Grading To . . . . Brown f SAND, trace(-) Silt, saturated, strong chlorinated solvent odor.	6,820	
			9.3-ft.	Gray cmf SAND, some(+) cmf subround to angular Gravel, saturated, strong chlorinated solvent odor.	4,164	
10						
12	S-4 12' - 14'	1.1-ft.	12.0-ft.	As above, saturated, moderate chlorinated solvent odor.	573	
14						
				End of Boring @ 15.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				15.0-FT.	Approx. 5.4-FT.

NOTES:

GENERAL NOTES
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NA = Not Applicable

BORING: B-27

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-28
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 0945 TO 1020
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.6-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	9.9	
			0.2-ft.	Brown cmf SAND, little mf angular to subrounded Gravel, moist, no odors.		
				ALLUVIUM	51.5	
			0.9-ft.	Brown f SAND, trace(-) f Gravel, damp, no odors.		
2				. . . . Grading To		
				Brown mf SAND, trace mf angular to subrounded Gravel, damp to wet, very slight chlorinated solvent odor.	72.0	
4	S-2 4' - 8'	3.2-ft.	4.0-ft.	As above, wet, very slight chlorinated solvent odor.	28.4	
			4.7-ft.	Brown and gray mottled SILT, trace(+) f Sand, wet to saturated @ ~5.8-ft., slight chlorinated solvent odor.	37.6	
6				. . . . Grading To		
				Brown with trace gray mottling SILT to Clayey SILT, saturated, slight chlorinated solvent odor.	35.1	
8	S-3 8' - 12'	3.3-ft.	8.0-ft.	As above, saturated, slight chlorinated solvent odor.		
			8.6-ft.	Brown mf SAND, little cmf subrounded to angular Gravel, slight chlorinated solvent odor.	127	
			9.3-ft.	Brown and gray mottled SILT, saturated , slight chlorinated solvent odor.	134	
10				. . . . Grading To		
				Brown $mf^{(+)}$ SAND, trace(-) Silt, moderate chlorinated solvent odor.	>9,999	
			10.5-ft.	Grayish-brown cmf SAND, little to some(-) cmf angular to subrounded Gravel, saturated, very strong chlorinated solvent odor.		
12	S-4 12' - 14'	0.8-ft.	12.0-ft.	Grayish-brown $cm^{(+)}f$ SAND, little(-) mf angular to subrounded Gravel, saturated, strong chlorinated solvent odor.	3,918	
14				End of Boring @ 14.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				14.0-FT.	Approx. 5.5-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-28

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-29
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 0820 TO 0845
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.0-ft.	0.0-ft	**FILL MATERIAL** Asphalt Pavement - Not sampled	79.4	
			0.2-ft.	Brown cm(+)f SAND, some cm(+)f angular to subrounded Gravel, moist, slight chlorinated solvent odor.	9.6	
2			1.2-ft.	Brown cmf angular to subrounded GRAVEL, some(+) cmf(+) Sand, damp, no odors.		
4	S-2 4' - 8'	3.4-ft.	4.0-ft.	**ALLUVIUM** Dark gray to brown SILT, little(-) f Sand, wet to saturated @ ~6.7-ft., no odors.	3.1	
					5.9	
6					1.9	
8	S-3 8' - 12'	2.2-ft.	8.0-ft.	As above, saturated, no odors.		
			8.5-ft.	Brown f SAND, trace Silt, saturated, no odors.	2.0	
			9.2-ft.	Gray cmf angular to subrounded GRAVEL, some(+) cmf Sand, saturated, no odors.	2.5	
10						
12				Borehole caves in to 8.3-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				12.0-FT.	Approx. 6.7-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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3) Abbreviations
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m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-29

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-30
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 1230 TO 1300
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.2-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	2.0	
			0.2-ft.	Brown cm subrounded to subangular GRAVEL and mf SAND, moist, no odors.		
				ALLUVIUM	3.9	
			0.3-ft.	Brown mf SAND, moist to damp, no odors.		
2						
4	S-2 4' - 8'	3.1-ft.	4.0-ft.	Brown mf(+) SAND, damp, no odors.	3.1	
				. . . . Grading To	2.2	
6				Brown and gray mottled Clayey SILT, trace(-) f Sand, wet to saturated @ ~6.5-ft., no odors.	1.5	
8	S-3 8' - 12'	2.5-ft.	8.0-ft.	Brown mf SAND, little Clayey Silt, saturated, no odors.		
				. . . . Grading To	2.0	
				Brown SILT, little(-) f Sand, saturated, no odors.		
				. . . . Grading To	5.4	
				Brown mf(+) SAND, little Silt, saturated, no odors.		
10			9.5-ft.	Gray cmf SAND, some cmf angular to subrounded Gravel, saturated, no odors.	21.8	
12				Borehole caves in to 8.4-ft. BGS.		
				End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 6.1-FT.

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-30

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-31
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental | BORING LOCATION: | TIME: 1145 TO 1225
DRILLER: Paul Wiley | GROUND SURFACE ELEVATION: NA | DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles | START DATE: 28-Oct-05 | END DATE: 28-Oct-05

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT | DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA | INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push | OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.4-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	3.1	
			0.2-ft.	Dark brown cmf SAND, little cm(+)f angular to subangular Gravel, moist, no odors.		
				ALLUVIUM	5.3	
			0.6-ft.	Brown f SAND, trace(+) Silt, moist to damp, no odors.		
2				. . . . Grading To		
				Brown mf SAND, damp, no odors.	11.5	
4	S-2 4' - 8'	2.7-ft.	4.0-ft.	As above, damp to wet, no odors.	20.7	
			5.0-ft.	Brown SILT, trace f Sand, wet to saturated @ ~6.0-ft., no odors.	8.8	
6				. . . . Grading To	8.3	
				Brown and gray mottled SILT, saturated, no odors.		
8	S-3 8' - 12'	1.7-ft.	8.0-ft.	As above, saturated, no odors.	9.1	
			8.6-ft.	Brown m(+)f SAND, saturated, moderate chlorinated solvent odor.		
			8.9-ft.	Gray cmf SAND, some(+) cmf angular to subangular Gravel, saturated, moderate chlorinated solvent odor.	511	
10						
12	S-4 12' - 15'	0.5-ft.	12.0-ft.	As above, saturated, very faint chlorinated solvent odor.	64.9	
14						
				End of Boring @ 15.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				15.0-FT.	Approx. 6.0-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations: and = 35 to 50 %; some = 20 to 35%; little = 10 to 20%; trace = 1 to 10%; c = coarse; m = medium; f = fine; BGS = Below the Ground Surface; NA = Not Applicable

BORING: B-31

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-32
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 0800 TO 0820
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.9-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	15.9	
			0.2-ft.	Dark brown cmf SAND, little(+) mf(+) angular to subangular Gravel, damp, no odors.		
				ALLUVIUM	69.0	
			0.6-ft.	Brown f SAND, some(-) Silt, damp, no odors.		
2				.... Grading To	72.0	
				Brown mf SAND, damp to wet, slight chlorinated solvent odor.		
4	S-2 4' - 8'	3.3-ft.	4.0-ft.	As above, wet, moderate to strong chlorinated solvent odor.	351	
			5.3-ft.	Brown SILT, little(-) f Sand, wet to saturated @ ~5.6-ft., strong chlorinated solvent odor.	>9.999	
6				.... Grading To	4,731	
				Brown Clayey SILT, little(+) f Sand, saturated, strong chlorinated solvent odor.		
8	S-3 8' - 12'	2.2-ft.	8.0-ft.	Brown f SAND, little(-) Silt, saturated, strong chlorinated solvent odor.		
				.... Grading To	3,411	
				Brown mf SAND, trace(-) Silt, saturated, strong chlorinated solvent odor.		
			9.1-ft.	Gray cmf SAND, little(-) mf(+) subrounded to subangular Gravel, moderate strong chlorinated solvent odor.	318	
10						
12				Borehole caves in to 8.7-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 5.6-FT.

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-32

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-33
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 0920 TO 0940
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	1.7-ft.	0.0-ft	**FILL MATERIAL** Asphalt Pavement - Not sampled	20.8	
			0.2-ft.	Brown cm(+)f SAND, some cm(+)f angular to subrounded Gravel, moist, no odors.	63.1	
2			0.7-ft.	**ALLUVIUM** Brown m(+)f SAND, damp, no odors.		
4	S-2 4' - 8'	3.2-ft.	4.0-ft.	As above, wet, very slight chlorinated solvent odor.	32.0	
			5.0-ft.	Dark brownish-gray to brown Clayey SILT to SILT, trace f Sand, saturated, no odors.	10.0	
6					8.0	
8	S-3 8' - 12'	3.0-ft.	8.0-ft.	As above, saturated, no odors.		
			8.6-ft.	Brown mf SAND, saturated, no odors.	4.2	
10			10.0-ft.	Gray cmf SAND and cmf angular to subrounded GRAVEL, saturated, no odors.	5.0	
					8.9	
12				Borehole caves in to 9.2-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 6.7-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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trace = 1 to 10%
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m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-33

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-34
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 0755 TO 0820
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.7-ft.	0.0-ft	**FILL MATERIAL** Asphalt Pavement - Not sampled	113	
			0.2-ft.	Brown cm$^{(+)}$f SAND, little mf subrounded to rounded Gravel, moist, slight chlorinated solvent odor.	4.1	
2			1.4-ft.	**ALLUVIUM** Brown mf SAND, trace(+) mf(+) angular to subrounded Gravel, moist to damp, no odors.	8.4	
4	S-2 4' - 8'	2.3-ft.	4.0-ft.	As above, damp to wet, no odors.	3.9	
			4.7-ft.	Brown SILT, little(+) f Sand, wet, no odors.		
			5.3-ft.	Brown SILT, little(+) mf angular to subrounded Gravel, little(+) cmf$^{(+)}$ Sand, saturated, no odors.	4.1	
6					0.7	
8	S-3 8' - 12'	2.7-ft.	8.0-ft.	As above, saturated, no odors.	3.1	
					0.9	
			9.8-ft.	Gray mf SAND, some(-) cmf angular to subrounded Gravel, saturated, no odors.		
10					0.9	
12				Borehole caves in to 8.0-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 6.7-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-34

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-35 / MW-3
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 1400 TO 1450
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.4-ft.	0.0-ft	**TOP SOIL** Dark brown to brown SILT, little(+) f Sand, includes organic matter (roots, root traces, humus) damp, no odors.	0.2	
				. . . . Grading To	0.0	
2			0.6-ft.	**ALLUVIUM** Brown SILT to Clayey SILT, damp to wet, no odors.	0.0	
					0.1	
4	S-2 4' - 8'	3.3-ft.	4.0-ft.	Brown and gray mottled Clayey SILT, little(-) f Sand, wet to saturated @ ~5.0-ft., no odors.	0.0	
				. . . . Grading To	0.1	
6				Brown with little gray mottling Clayey SILT, trace f Sand, saturated, no odors.	0.1	
8	S-3 8' - 12'	2.0-ft.	8.0-ft.	Gray $c^{(+)}$mf SAND, little(+) cmf subrounded to angular Gravel, saturated, no odors.	0.2	
					0.2	
10						
12				Borehole caves in to 8.5-ft. BGS. End of Sampling @ 12.0-ft. BGS Well installed to 15-ft. BGS with dedicated drive point.		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				12.0-FT.	Approx. 5.0-FT.

NOTES: Monitoring well MW-3 was constructed within borehole B-35.
- Due to cave in of the borehole, well installed by pushing to 15-feet with dedicated drive point

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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3) Abbreviations
and = 35 to 50 %
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little = 10 to 20%
trace = 1 to 10%
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m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-35 / MW-3

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-36 / MW-4
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 28-Oct-05
END DATE: 28-Oct-05
TIME: 1510 TO 1550
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.5-ft.	0.0-ft	**TOP SOIL** Dark brown f SAND, some(-) Silt, includes organic matter (roots, root traces, humus), moist, no odors.	0.1	
			0.6-ft.	**ALLUVIUM** Brown and gray mottled Clayey SILT, damp to wet, no odors.	0.1	
2					0.2	
					2.3	
4	S-2 4' - 8'	3.2-ft.	4.0-ft.	As above, wet to saturated @ ~4.6-ft., no odors.	0.5	
				. . . . Grading To	0.1	
6				Gray Clayey SILT, damp to wet, no odors.	0.0	
8	S-3 8' - 12'	2.2-ft.	8.0-ft.	As above, saturated, no odors.	0.0	
				. . . . Grading To		
				Gray SILT, little(+) f Sand, saturated, no odors.	4.9	
			9.8-ft.	Gray cmf SAND and cmf angular to subangular GRAVEL, saturated, no odors.		
10						
12	S-4 12' - 15'	2.3-ft.	12.0-ft.	As above, saturated, no odors.	0.3	
				. . . . Grading To	0.1	
14				Gray m(+)f SAND, saturated, no odors.		
				End of Boring @ 15.0-ft. BGS		
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				15.0-FT.	Approx. 4.6-FT.

NOTES: Monitoring well MW-4 was constructed within borehole B-36.

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-36 / MW-4

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-37 / MW-2
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 1455 TO 1550
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.0-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled	0.2	
				ALLUVIUM		
			0.2-ft.	Brown mf SAND, trace Silt, moist to damp, no odors.	0.1	
2						
4	S-2 4' - 8'	3.2-ft.	4.0-ft.	As above, wet, no odors.		
			4.5-ft.	Brown mf SAND, trace(+) m(+)f subrounded to subangular Gravel, wet, no odors.	4.1	
			5.2-ft.	Brown SILT, little f Sand, wet to saturated @ ~5.7-ft., no odors.	2.6	
6				.... Grading To		
				Brown SILT, saturated, no odors.	1.6	
8	S-3 8' - 12'	2.3-ft.	8.0-ft.	As above, saturated, no odors.		
				.... Grading To	1.2	
				Brown SILT and f SAND, wet to saturated @ ~5.7-ft., no odors.	2.2	
10						
12	S-4 12' - 15'	1.5-ft.	12.0-ft.	Brownish-gray cmf SAND, some(+) m(+)f subrounded to angular Gravel, saturated, no odors.		
				.... Grading To	8.4	
				Gray c(+)mf SAND, saturated, no odors.	19.0	
14						
16				Borehole caves in to 12.3-ft. BGS. End of Sampling @ 15.0-ft. BGS Well installed to 15-ft. BGS with dedicated drive point.		
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 5.7-FT.

NOTES: Monitoring well MW-3 was constructed within borehole B-35.
- Due to cave in of the borehole, well installed by pushing to 15-feet with dedicated drive point

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
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m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-37 / MW-2

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ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-38 / MW-5
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 27-Oct-05
END DATE: 27-Oct-05
TIME: 1355 TO 1450
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.6-ft.	0.0-ft	**FILL MATERIAL** Asphalt Pavement - Not sampled	0.2	
			0.2-ft.	**ALLUVIUM** Brown mf SAND, trace mf subrounded to subangular Gravel, trace(-) Silt (discrete clast of Silt), moist to damp, no odors.	0.1	
2					0.3	
4	S-2 4' - 8'	3.7-ft.	4.0-ft.	Brown f SAND, trace(-) Silt, wet to saturated @ ~4.5-ft., no odors.	0.2	
			5.0-ft.	Dark brown to brown SILT, trace(-) f Sand, saturated, no odors.	0.2	
6				.... Grading To	0.1	
				Brown Clayey SILT, saturated, no odors.	0.2	
8	S-3 8' - 12'	2.0-ft.	8.0-ft.	Brown and gray mottled Clayey SILT, saturated, no odors.	0.1	
				.... Grading To	0.0	
10				Gray with little brown mottling SILT, trace(-) f Sand, saturated, no odors.		
12	S-4 12' - 15'	1.7-ft.	12.0-ft.	Gray cmf SAND and cmf angular to subangular GRAVEL, saturated, no odors.		
				.... Grading To	0.1	
				Gray cm$^{(+)}$f SAND, saturated, no odors.	0.0	
14						
16				Borehole caves in to 12.3-ft. BGS. End of Sampling @ 15.0-ft. BGS Well installed to 15-ft. BGS with dedicated drive point.		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				12.0-FT.	Approx. 4.5-FT.

NOTES: Monitoring well MW-3 was constructed within borehole B-35.
- Due to cave in of the borehole, well installed by pushing to 15-feet with dedicated drive point

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
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trace = 1 to 10%
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m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-38 / MW-5

LABELLA Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-39
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 02-Nov-05
END DATE: 2-Nov-05
TIME: 1020 TO 1042
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.0-ft.	0.0-ft	**FILL MATERIAL** Concrete Slab - Not sampled	10.8	
			0.2-ft.	**ALLUVIUM** Brown mf(+) SAND, slightly moist, no odors	16.1	
2				.... Grading To	8.1	
				Brown f SAND, trace(-) Silt, damp, no odors.		
4	S-2 4' - 8'	3.7-ft.	4.0-ft.	Brown Clayey Silt, damp, no odors.	67.4	
				.... Grading To	99.8	
				Brown SILT, trace f Sand, wet to saturated @ ~6.2-ft., no odors.		
6				.... Grading To	10.7	
				Brown mf(+) SAND, saturated, no odors.	9.3	
8	S-3 8' - 12'	3.2-ft.	8.0-ft.	As above, saturated, no odors.	67.2	
			8.6-ft.	Brown SILT, saturated, no odors.	91.4	
				.... Grading To		
10				Gray Clayey SILT, saturated, very slight chlorinated solvent odor.	128	
12				Borehole caves in to 8.6-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				12.0-FT.	Approx. 6.2-FT.

NOTES:

GENERAL NOTES
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NA = Not Applicable

LABELLA Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-40
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 02-Nov-05
END DATE: 2-Nov-05
TIME: 1045 TO 1120
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.7-ft.		**FILL MATERIAL**		
			0.0-ft	Concrete Slab - Not sampled	20.8	
				ALLUVIUM		
			0.2-ft.	Brown f SAND, trace(-) Silt, slightly moist, no odors	21.6	
2				.... Grading To		
				Brown mf SAND, moist to damp, no odors.	18.3	
4	S-2 4' - 8'	3.3-ft.	4.0-ft.	As above, damp to wet, no odors.	52.9	
					26.6	
			5.5-ft.	Brown and gray mottled Clayey SILT, trace f Sand, wet to saturated @ ~6.1-ft., no odors.		
6				.... Grading To	24.3	
				Brown and gray mottled Clayey SILT, saturated, no odors.		
8	S-3 8' - 12'	2.6-ft.	8.0-ft.	As above, saturated, no odors.	47.6	
			9.1-ft.	Brown m(+)f SAND, saturated, slight chlorinated solvent odor.	98.7	
10				.... Grading To	39.1	
				Brown cmf SAND, little mf angular to subangular Gravel, saturated, very slight chlorinated solvent odor.		
12				Borehole caves in to 8.2-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 6.1-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-40

LABELLA Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-41
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 02-Nov-05
END DATE: 2-Nov-05
TIME: 1135 TO 1150
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.7-ft.	0.0-ft	**FILL MATERIAL** Asphalt Pavement - Not sampled	1.7	
			0.2-ft.	**ALLUVIUM** Brown f SAND, slightly moist, no odors	223	
			1.4-ft.	Organic PEAT, damp, moderate chlorinated solvent odor.		
2			1.5-ft.	Brown $m^{(+)}f$ SAND, damp, slight chlorinated solvent odor.	39.7	
4	S-2 4' - 8'	3.1-ft.	4.0-ft.	As above, damp to wet, slight chlorinated solvent odor.	81.8	
			5.0-ft.	Brown and gray mottled SILT, little(-) f Sand, wet to saturated @ ~5.6-ft., no odors.	22.0	
6				. . . . Grading To . . . . Brown with trace gray mottling Clayey SILT, saturated, no odors.	25.6	
8	S-3 8' - 12'	2.5-ft.	8.0-ft.	As above, saturated, no odors.	14.7	
			8.5-ft.	Brown SILT, saturated, no odors. . . . . Grading To . . . . Brown $mf^{(+)}$ SAND, saturated, no odors.	39.2	
10			10.8-ft.	Brown cmf SAND, some mf subrounded to angular Gravel, saturated, no odors.	21.3	
12				Borehole caves in to 9.1-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				12.0-FT.	Approx. 5.6-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
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little = 10 to 20%
trace = 1 to 10%
c = coarse
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f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-41

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Preliminary Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-42
SHEET 1 OF 1
JOB: 205237
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Paul Wiley
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 02-Nov-05
END DATE: 2-Nov-05
TIME: 1154 TO 1210
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.6-ft.	0.0-ft	**FILL MATERIAL** Asphalt Pavement - Not sampled	0.1	
			0.2-ft.	**ALLUVIUM** Brown f SAND, moist, no odors	0.3	
2				.... Grading To .... Brown mf SAND, moist to damp, no odors.	0.2	
4	S-2 4' - 8'	3.1-ft.	4.0-ft.	Brown SILT, some(-) f SAND, damp, no odors.	0.1	
				.... Grading To	8.4	
6				Gray Clayey SILT, wet to saturated @ ~7.0-ft., no odors.	23.3	
8	S-3 8' - 12'	2.6-ft.	8.0-ft.	As above, saturated, no odors.	13.8	
				.... Grading To	12.3	
10				Gray and brown mottled Clayey SILT to SILT & CLAY, saturated, no odors.	8.4	
12				Borehole caves in to 7.5-ft. BGS. End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				12.0-FT.	Approx. 7.0-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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3) Abbreviations
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trace = 1 to 10%
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f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-42

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-43 (MW-7)
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 0850 TO 0915
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.9-ft.	0.0-ft	**TOPSOIL** Dark brown f SAND, some(-) Silt, organics present (roots, root traces, humus), damp, no odors.	0.0	
			0.4-ft.	**ALLUVIUM** Brown mf SAND, moist, no odors.	0.0	
2			2.3-ft.	Brown SILT and vf SAND, damp to wet, no odors.	0.0	
4	S-2 4' - 8'	3.1-ft.	4.0-ft.	As above, wet, no odors.	0.3	
			4.7-ft.	Grayish-brown SILT, some vf Sand, wet to saturated @ ~5.2-ft., no odors.	0.2	
			5.3-ft.	Brown SILT and vf SAND, saturated, no odors.		
6					0.1	
8	S-3 8' - 12'	3.0-ft.	8.0-ft.	Brown with some gray mottling SILT and vf SAND, saturated, no odors.	0.0	
			9.2-ft.	Gray SILT and vf SAND, saturated, no odors.	0.0	
10				.... Grading To .... Gray mf(+) SAND, little(-) Silt, with occasional varves of brownish-gray Clayey SILT, saturated, no odors.	0.0	
12	S-4 12' - 14'	1.7-ft.	12.0-ft.	Brown cm(+)f SAND, saturated, no odors.	5.2	
					1.7	
14						
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				16.0-FT.	Approx. 5.2-FT.

NOTES:
- Well MW-7 completed within borehole B-43.

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
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trace = 1 to 10%
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BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-43 (MW-7)

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-44 (MW-9)
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1020 TO 1100
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.3-ft.		**FILL MATERIAL**		
			0.0-ft	Concrete Slab - Not sampled.	2,567	
				ALLUVIUM		
			0.3-ft.	Brown mf SAND, moist to damp, strong chlorinated solvent odor.	4,351	
2					3,554	
4	S-2 4' - 8'	3.4-ft.	4.0-ft.	Brown mf(+) SAND, wet, moderate to slight chlorinated solvent odor.	239	
			5.3-ft.	Grayish-brown f SAND and SILT, wet, slight chlorinated solvent odor.	208	
6				.... Grading To	67.4	
				Grayish-brown SILT, some vf Sand, wet to saturated @ ~5.8-feet, slight chlorinated solvent odor.		
8	S-3 8' - 12'	3.2-ft.	8.0-ft.	Brown Clayey SILT, trace vf Sand, saturated, slight chlorinated solvent odor.	385	
					211	
			9.8-ft.	Brown mf(+) to mf SAND, trace(-) Silt, saturated, slight chlorinated solvent odor.		
10					49.8	
12	S-4 12' - 14'	1.7-ft.	12.0-ft.	Brown $cm^{(+)}f$ SAND, saturated, no odors.	117	
				.... Grading To	14.8	
14				Gray cmf angular to subrounded GRAVEL, some(+) $c^{(+)}mf$ Sand, very slight chlorinated solvent odor.		
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				16.0-FT.	Approx. 5.8-FT.

NOTES:
- Well MW-9 completed within borehole B-44.

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-44 (MW-9)

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-44R
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: Not Applicable
DRILLER: Craig Stiles
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION: ~6-inches southeast of boring B-44
GROUND SURFACE ELEVATION: NA
START DATE: 27-Apr-06
END DATE: 27-Apr-06
TIME: 1605 TO 1650
DATUM: NA

TYPE OF DRILL RIG: Hand-Operated Hammer Drill
AUGER SIZE AND TYPE: 1.0-inch Outside Diameter
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 0.5'	100%	0.0-ft	**FILL MATERIAL** Concrete Slab - Not sampled.		
			0.3-ft.	**ALLUVIUM** Brown mf SAND, moist to damp, strong chlorinated solvent odor.	>2,000	PID Reading @ Borehole
2						
4						
6						
8						
10						
12						
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				0.5-FT.	Not Encountered

NOTES:

GENERAL NOTES
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BORING: B-44R

LABELLA Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-45
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1103 TO 1137
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.4-ft.		**FILL MATERIAL**		
			0.0-ft	Concrete Slab - Not sampled.	1,369	
				ALLUVIUM		
			0.3-ft.	Brown mf SAND, moist, moderate to strong chlorinated solvent odor.	1,004	
2				.... Grading To		
				Brown mf(+) SAND, moist to damp, moderate chlorinated solvent odor.	820	
4	S-2 4' - 8'	3.7-ft.	4.0-ft.	As above, wet, moderate to strong chlorinated solvent odor.	2,512	
			5.3-ft.	Brown vf SAND, trace Silt, wet to saturated @ ~5.7-feet, moderate to string chlorinated solvent odor.	1,867	
6				.... Grading To	564	
				Brown SILT, some vf Sand, saturated, moderate chlorinated solvent odor.	41.6	
8	S-3 8' - 12'	3.2-ft.	8.0-ft.	As above, saturated, moderate to slight chlorinated solvent odor.	515	
				.... Grading To	267	
10				Brown mf(+) SAND, trace Clayey Silt, saturated, slight chlorinated solvent odor.	72.9	
12	S-4 12' - 14'	1.9-ft.	12.0-ft.	Brown $cm^{(+)}f$ SAND, saturated, no odors.	5.4	
					4.8	
14						
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				16.0-FT.	Approx. 5.7-FT.

NOTES:

GENERAL NOTES
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BORING: B-45

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-46
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1310 TO 1342
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.9-ft.	0.0-ft	**FILL MATERIAL** Concrete Slab - Not sampled.	12.4	
			0.3-ft.	**ALLUVIUM** Brown mf(+) SAND, trace(-) Silt with 1-In. thick interbed of Brown SILT, little vf Sand @ 1.5 feet below surface grade, moist to damp, no odors.	19.6	
2					11.9	
4	S-2 4' - 8'	3.8-ft.	4.0-ft.	Brown f SAND, trace Silt, wet to saturated @ ~5.7-ft., very slight to slight chlorinated solvent odor.	30.7	
					48.3	
			5.8-ft.	Brown to grayish-brown SILT, little vf Sand, saturated, slight to very slight perchoroethylene odor.		
6					118	
					19.5	
8	S-3 8' - 12'	3.4-ft.	8.0-ft.	As above, saturated, slight chlorinated solvent odor.	117	
				.... Grading To	52.6	
10				Grayish-brown Clayey SILT, trace(-) vf Sand, saturated, no odors.	14.9	
12	S-4 12' - 14'	1.1-ft.	12.0-ft.	Brown cm(+)f SAND, saturated, no odors. weathered petroleum odor.	4.6	
14						
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				16.0-FT.	Approx. 5.7-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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BORING: B-46

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-47 (MW-10)
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1345 TO 1410
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.3-ft.		**FILL MATERIAL**		
			0.0-ft	Concrete Slab - Not sampled.	10.0	
				ALLUVIUM		
			0.3-ft.	Brown mf(+) SAND, trace(-) Silt, moist to damp, no odors to very faint chlorinated solvent odor.	9.4	
2					34.7	
4	S-2 4' - 8'	3.9-ft.	4.0-ft.	As above, wet, no odors.	13.1	
			4.9-ft.	Brown SILT and vf SAND, wet to saturated @ ~5.2-feet. No odors.	10.4	
			5.3-ft.	Brown to grayish-brown mf(+) SAND, trace Silt, saturated, no odors.		
6			6.0-ft.	Grayish-brown SILT, little vf Sand, saturated, no odors.	0.7	
					0.0	
8	S-3 8' - 12'	3.1-ft.	8.0-ft.	Gray SILT, little vf Sand, saturated, no odors.	1.0	
				. . . . Grading To	0.5	
				Gray Clayey SILT, saturated, no odors.		
10					0.0	
12	S-4 12' - 14'	0.4-ft.	12.0-ft.	Brown cm(+)f SAND, saturated, no odors. odors.	0.2	
14						
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				16.0-FT.	Approx. 5.2-FT.

NOTES:
- Well MW-10 completed within borehole B-47.

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
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LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-48
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1518 TO 1542
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.0-ft.		**FILL MATERIAL**		
			0.0-ft	Concrete Slab - Not sampled.	0.5	
				ALLUVIUM		
			0.3-ft.	Brown mf SAND, moist, no odors.	0.8	
2				.... Grading To	0.5	
				Brown vf SAND, little(-) Silt, damp to wet, no odors.		
4	S-2 4' - 8'	3.5-ft.	4.0-ft.	As above, wet to saturated @ ~4.6-ft., no odors.	0.2	
					0.1	
			5.5-ft.	Gray to grayish-brown SILT to Clayey SILT, trace(+) vf Sand, saturated, no odors.		
6					0.0	
8	S-3 8' - 12'	3.0-ft.	8.0-ft.	As above, saturated, no odors.	0.0	
				.... Grading To	0.0	
				Brownish-gray SILT & CLAY, saturated, no odors.		
10					0.0	
12	S-4 12' - 14'	1.9-ft.	12.0-ft.	Brown cm(+)f SAND, saturated, no odors.	20.4	
					20.3	
14						
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				16.0-FT.	Approx. 4.6-FT.

NOTES:

GENERAL NOTES
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BORING: B-48

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-49 (MW-8)
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1140 TO 1220
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.9-ft.	0.0-ft	**FILL MATERIAL** Concrete Slab - Not sampled.	6.7	
			0.3-ft.	**ALLUVIUM** Brown mf SAND, moist to damp, no odors.	12.2	
2			1.0-ft.	Brown and gray mottled SILT, little vf Sand, damp to wet, no odors.	10.9	
4	S-2 4' - 8'	3.5-ft.	4.0-ft.	As above, wet to saturated @ ~5.4-feet., no odors.	3.3	
				odor.	1.6	
6					0.3	
8	S-3 8' - 12'	2.7-ft.	8.0-ft.	As above, saturated, no odors.	0.1	
					1.2	
10			9.7-ft.	Brown $mf^{(+)}$ SAND, trace Silt, saturated, no odors.	0.8	
12	S-4 12' - 14'	1.7-ft.	12.0-ft.	Brown $cm^{(+)}f$ SAND, saturated, no odors. weathered petroleum odor.	10.8	
					7.2	
14						
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				16.0-FT.	Approx. 5.4-FT.

NOTES:
- Well MW-8 completed within borehole B-49.

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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BORING: B-49 (MW-8)

LABELLA Associates, P.C.

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PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-50
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1225 TO 1250
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.7-ft.		**FILL MATERIAL**		
			0.0-ft	Concrete Slab - Not sampled.	12.5	
				ALLUVIUM		
			0.3-ft.	Brown mf SAND, moist to damp, no odors.	38.7	
2					48.8	
4	S-2 4' - 8'	3.1-ft.	4.0-ft.	Brown vf to f SAND, damp, no odors.	16.9	
			4.6-ft.	Brown to grayish-brown SILT, little vf Sand, wet to saturated @ ~5.6-feet, no odors.	11.4	
6					1.2	
8	S-3 8' - 12'	3.1-ft.	8.0-ft.	As above, saturated, no odors.	1.6	
				. . . . Grading To	4.0	
10				Grayish-brown Clayey SILT, trace vf Sand, saturated, no odors.	0.3	
12	S-4 12' - 14'	2.0-ft.	12.0-ft.	Brown cm(+)f SAND, saturated, no odors.	7.7	
				. . . . Grading To		
				Grayish-brown cmf SAND and cmf subrounded to subangular GRAVEL, saturated, slight weathered petroleum odor.	8.8	
14						
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				16.0-FT.	Approx. 5.7-FT.

NOTES:

GENERAL NOTES
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BORING: B-50

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ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-51
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1250 TO 1320
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.8-ft.		**FILL MATERIAL**		
			0.0-ft	Concrete Slab - Not sampled.	26.7	
				ALLUVIUM		
			0.3-ft.	Brown mf(+) SAND, moist to damp, no odors.	64.8	
2					47.3	
4	S-2 4' - 8'	3.4-ft.	4.0-ft.	As above, wet, no odors.		
				. . . . Grading To	37.5	
				Brown f SAND, little(+) Silt, wet to saturated @ ~5.1-feet, no odors.		
			5.2-ft.	Brownish-gray SILT, little(-) vf Sand, saturated, no odors.	54.9	
6					17.0	
8	S-3 8' - 12'	4.0-ft.	8.0-ft.	As above, saturated, no odors.	37.3	
				. . . . Grading To	21.4	
10				Brownish-gray Clayey SILT, saturated, no odors.	16.9	
					14.2	
12	S-4 12' - 14'	1.2-ft.	12.0-ft.	Brown cm(+)f SAND, saturated, no odors.	1.7	
14						
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				16.0-FT.	Approx. 5.1-FT.

NOTES:

GENERAL NOTES
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BORING: B-51

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-52
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1545 TO 1645
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.9-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled.	0.1	
				ALLUVIUM		
			0.2-ft.	Brown mf(+) SAND, moist to damp, no odors.	0.0	
2					0.0	
4	S-2 4' - 8'	3.2-ft.	4.0-ft.	As above, wet, no odors.		
				.... Grading To	0.8	
				Brown vf SAND, trace Silt, wet to saturated @ ~5.4-feet, no odors.	6.7	
			5.5-ft.	Brownish-gray SILT, little(-) vf Sand, saturated, no odors to very faint chlorinated solvent		
6				odor.	113	
8	S-3 8' - 12'	3.6-ft.	8.0-ft.	As above, saturated, very faint chlorinated solvent odor.	97.9	
			8.9-ft.	Brownish-gray mf SAND, trace(-) Silt, saturated, slight to moderate chlorinated solvent odor.	198	
10					578	
12	S-4 12' - 14'	0.0-ft.	12.0-ft.	Brown cm(+)f SAND, saturated, no odors.		
14						
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				16.0-FT.	Approx. 5.4-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-52R
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION: ~6-Inches west of Boring B-52
GROUND SURFACE ELEVATION: NA
START DATE: 27-Apr-06
END DATE: 27-Apr-06
TIME: 1525 TO 1540
DATUM: NA

TYPE OF DRILL RIG: Truck/~~Track~~ Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.0-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled.	0.1	
				ALLUVIUM		
			0.2-ft.	Brown mf to mf(+) SAND, moist, no odors.	0.0	
2					0.0	
4	S-2 4' - 8'	3.2-ft.	4.0-ft.	As above, wet, no odors.	24.8	
			4.6-ft.	Gray to brown vf SAND, some Silt, wet, no odors to moderate chlorinated solvent odor.	424	
			5.5-ft.	Brownish-gray SILT, little(-) vf Sand, saturated, saturated, no odors to very faint chlorinated solvent odor.		
6			6.2-ft.	Brown SILT & CLAY to Clayey SILT, some(-) vf SAND, slight to very slight chlorinated solvent odor.	96.5	
8	S-3 8' - 12'	3.1-ft.	8.0-ft.	As above, saturated, slight chlorinated solvent odor.	371	
			9.1-ft.	Brown mf(+) to f SAND, saturated, slight to very slight chlorinated solvent odor.	109	
10					84.0	
				Bottom of Boring @ 12-feet Below Surface Grade		

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				12.0-FT.	Not Encountered

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-52R

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-53
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1655 TO 1725
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.0-ft.	0.0-ft	**FILL MATERIAL** Asphalt Pavement - Not sampled.	0.5	
			0.2-ft.	**ALLUVIUM** Brown mf(+) to f SAND, moist to damp, no odors.	1.0	
2					0.8	
4	S-2 4' - 8'	3.3-ft.	4.0-ft.	As above, damp to wet, no odors.	0.1	
			4.8-ft.	Brown SILT, trace(+) vf Sand, wet to saturated @ ~5.6-feet, no odors.	0.0	
6				.... Grading To .... Brown SILT, saturated, no odors.	0.0	
8	S-3 8' - 12'	3.0-ft.	8.0-ft.	As above, saturated, no odors.	0.1	
					0.3	
10			9.6-ft.	Brown mf SAND, little m(+)f subrounded Gravel, saturated, no odors.	0.0	
12	S-4 12' - 14'	1.8-ft.	12.0-ft.	Brown cm(+)f SAND, saturated, no odors.	0.2	
					0.3	
14						
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				16.0-FT.	Approx. 5.4-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-53

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-54
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1730 TO 1757
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.6-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled.	0.3	
				ALLUVIUM		
			0.2-ft.	Brown mf(+) SAND, moist, no odors.	0.1	
2				.... Grading To	0.0	
				Brown f SAND, little(-) Silt, damp to wet, no odors.	0.0	
4	S-2 4' - 8'	3.8-ft.	4.0-ft.	As above, wet, no odors.	0.1	
					0.0	
			5.4-ft.	Brownish-gray SILT, trace(+) vf Sand, wet to saturated @ ~5.6-ft., no odors.		
6				.... Grading To	0.0	
				Grayish-brown Clayey SILT, saturated, no odors.	0.0	
8	S-3 8' - 12'	3.3-ft.	8.0-ft.	As above, saturated, no odors.	0.0	
				.... Grading To	0.0	
				Brownish-gray vf SAND, little(+) Clayey Silt, saturated, no odors.		
10			10.7-ft.	Brown f SAND, trace Silt, saturated, no odors.	0.2	
12	S-4 12' - 14'	2.6-ft.	12.0-ft.	Brown cm(+)f SAND, saturated, no odors.	1.6	
			12.5-ft.	Grayish-brown cmf subrounded to angular GRAVEL, trace(+) cm Sand, saturated, no odors.	0.5	
			13.3-ft.	Brown m(+)f SAND, saturated, no odors.		
14					0.1	
16				End of Boring @ 16.0-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				16.0-FT.	Approx. 5.6-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: B-54

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: B-55
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 1800 TO 1823
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.4-ft.		**FILL MATERIAL**		
			0.0-ft	Asphalt Pavement - Not sampled.	0.9	
				ALLUVIUM		
			0.2-ft.	Brown mf(+) SAND, moist to damp, no odors.	1.4	
2					0.0	
			2.9-ft.	Brown vf SAND, trace Silt, wet, no odors.	0.0	
4	S-2 4' - 8'	3.7-ft.	4.0-ft.	Dark brown to brown SILT, wet to saturated @ ~5.8-feet, no odors.	0.6	
					0.5	
6					0.2	
					0.2	
8	S-3 8' - 12'	3.8-ft.	8.0-ft.	As above, saturated, no odors.	0.3	
					0.1	
			9.9-ft.	Brownish-gray mf(+) SAND, trace Silt, saturated, no odors.		
10					0.0	
			11.0-ft.	Brown cmf SAND, some(-) mf subrounded to subangular Gravel, saturated, no odors.	0.0	
12				End of Boring @ 12.0-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				12.0-FT.	Approx. 5.8-FT.

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
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some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
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NA = Not Applicable

BORING: B-55

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment 1600 Penfield Road Penfield, New York	BORING **MW-6** SHEET 1 OF 5 JOB # 205237 CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION

DRILLER Steve Reyes GROUND SURFACE ELEVATION DATUM

LABELLA REPRESENTATIVE: C. Stiles START DATE 20-Feb-06 END DATE 22-Feb-06

TYPE OF DRILL RIG: Truck-mount CME Model 85 Hollow-stem Auger Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE BLOWS / 6"	SAMPLE NO.	SAMPLE DEPTH (FT.)	SAMPLE N-VALUE /RQD(%)	SAMPLE RECOVERY (INCHES)	DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
1									
2									
3									
4									
5	6 4 3 4	S-1	4' - 6'	7	1.5-ft.	4.0-ft. 5.0-ft.	Brown mf SAND, damp, no odors. Brown vf SAND, some(-) Silt, damp to wet, no odors.	4.1 4.6	S
6									
7									
8									
9									
10	4 5 7 8	S-2	9' - 11'	12	1.0-ft.	9.0-ft.	Grayish-brown cmf SAND, some mf subrounded Gravel, saturated, very slight solvent odor.	81.0	S
11									
12									
13									
14									
15	5 4 3	S-3	14' - 16'	7	0.7-ft.	14.0-ft.	Brownish-gray mf SAND, saturated, no odors.	7.9	S
16	3								

LEGEND

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment 1600 Penfield Road Penfield, New York	BORING **MW-6** SHEET 2 OF 5 JOB # 205237 CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION

DRILLER Steve Reyes GROUND SURFACE ELEVATION DATUM

LABELLA REPRESENTATIVE: C. Stiles START DATE 20-Feb-06 END DATE 22-Feb-06

TYPE OF DRILL RIG: Truck-mount CME Model 85 Hollow-stem Auger Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)	DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
17	4 4 5 4	S-4	16' - 18'	9	1.3-ft.	16.0-ft.	Brownish-gray mf SAND, trace f subrounded Gravel, saturated, no odors.	8.2 4.7	S
19	3 5 5 5	S-5	18' - 20'	10	1.2-ft.	18.0-ft.	Gray mf SAND, trace f subrounded Gravel, saturated, no odors.	0.2	S
21	4 2 3 2	S-6	20' - 22'	5	1.1-ft.	20.0-ft.	Gray mf(+) SAND, saturated, no odors.	0.5	S
23	5 7 9 18	S-7	22' - 24'	16	1.3-ft.	22.0-ft.	As above, saturated, no odors.	0.0	S
25	8 11 14 23	S-8	24' - 26'	25	1.4-ft.			0.3	S
27	7 7 11 20	S-9	26' - 28'	18	1.4-ft.			0.0	S
29	12 12 23 28	S-10	28' - 30'	35	1.5-ft	28.0-ft.	Gray mf(+) SAND, faint stratification visible, saturated, no odors.	0.0	S
31	8 9 23 52	S-11	30' - 32'	32	1.6-ft.	30.0-ft.	As above, saturated, no odors.	0.0 0.0	S

LEGEND

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment 1600 Penfield Road Penfield, New York	BORING **MW-6** SHEET 3 OF 5 JOB # 205237 CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION

DRILLER Steve Reyes GROUND SURFACE ELEVATION DATUM

LABELLA REPRESENTATIVE: C. Stiles START DATE 20-Feb-06 END DATE 22-Feb-06

TYPE OF DRILL RIG: Truck-mount CME Model 85 Hollow-stem Auger Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)	DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
33	2, 2, 5, 6	S-12	32' - 34'	7	1.0-ft.	32.0-ft.	Gray mf(+) SAND, saturated, no odors.	0.0	S
35	8, 8, 14, 17	S-13	34' - 36'	22	1.2-ft.	34.0-ft.	As above, saturated, no odors.	0.0	S
37	5, 10, 11, 16	S-14	36' - 38'	21	1.6-ft.			0.0	S
39	16, 14, 12, 12	S-15	38' - 40'	26	1.7-ft.			0.0	S
41	3, 3, 5, 5	S-16	40' - 42'	8	1.7-ft.	40.0-ft.	As above (Suspected running sand)	0.0	S
46	6, 5, 5, 5	S-17	45' - 47'	10	0.6-ft.		Gray mf SAND, saturated, no odors.	0.0	S

LEGEND

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment 1600 Penfield Road Penfield, New York	BORING **MW-6** SHEET 4 OF 5 JOB # 205237 CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION

DRILLER Steve Reyes GROUND SURFACE ELEVATION DATUM

LABELLA REPRESENTATIVE: C. Stiles START DATE 20-Feb-06 END DATE 22-Feb-06

TYPE OF DRILL RIG: Truck-mount CME Model 85 Hollow-stem Auger Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)	DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
49									
50	7					50.0-ft	Gray mf SAND, saturated, no odors.		
51	10	S-18	50' - 52'	19	1.0-ft.			0.0	S
52	9 7								
53									
54									
55									
56	9 16	S-19	55' - 57'	37	0.5-ft.	55.0-ft.	Gray f-vf SAND, trace Silt, saturated, no odors.	0.0	S
57	21 17								
58									
59									
60									
61	14 31	S-20	60' - 62'	78	1.4-ft.	60.0-ft.	Brown f-vf SAND, saturated, no odors.	0.1	S
62	47 100/4"							0.3	
63									

LEGEND

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment 1600 Penfield Road Penfield, New York	BORING **MW-6** SHEET 5 OF 5 JOB # 205237 CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION

DRILLER Steve Reyes GROUND SURFACE ELEVATION DATUM

LABELLA REPRESENTATIVE: C. Stiles START DATE 20-Feb-06 END DATE 22-Feb-06

TYPE OF DRILL RIG: Truck-mount CME Model 85 Hollow-stem Auger Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE BLOWS / 6"	SAMPLE NO.	SAMPLE DEPTH (FT.)	SAMPLE N-VALUE /RQD(%)	SAMPLE RECOVERY (INCHES)	DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
65									
	14					65.0-ft.	Gray cmf SAND, little(-) f subrounded Gravel, trace(-) Silt & Clay,	2.6	
66	21	S-21	65' - 67'	41	1.4-ft.		saturated, no odors.		S
	20							3.8*	
67	18								
68									
69									
70									
	16					70.0-ft.	Brown SILT, little(-) vf Sand, saturated, no odors.	1.8	
71	21	S-22	70' - 72'	78	1.5-ft.				S
	57					71.0-ft.	Grayish-brown cmf angular to subangular GRAVEL and SILT & CLAY,	0.5**	
72	100/4"						little cmf Sand, saturated, no odors.		
	52					72.0-ft.	As above, saturated, no odors.	0.1	
73	63	S-23	72' - 74'	144	1.2-ft.	72.4-ft.	SHALE, saturated, no odors.		S
	81					72.6-ft.	Brown f SAND, little(+) Silt, saturated, no odors.	0.1	
74	100/2"					73.1-ft.	SHALE, saturated, no odors.		
75									
76									
77									
78									
79									

LEGEND

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

NOTES:

* denotes a headspace reading of 22.3 ppm was obtained for the 66.0' to 66.4' interval.

** denotes a headspace reading of 0.3 ppm was obtained for the 71.0' to 71.5' interval.

- Monitoring wells MW-6M and MW-6D were installed within borehole MW-6.

GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: SG-15
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 0920 TO 0935
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.7-ft.	0.0-ft	**TOPSOIL** Dark brown f SAND, some(-) Silt, organics present (roots, root traces, humus), damp, no odors.	0.0	
			0.45-ft.	**ALLUVIUM** Brown mf(+) SAND, moist, no odors.	0.0	
2			2.2-ft.	Brown vf SAND, some Silt, damp to wet, no odors.	0.0	
4				End of Boring @ 4.0-ft. BGS		
6						
8						
10						
12						
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				4.0-FT.	Not Encountered

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: SG-15

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: SG-16
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06
END DATE: 30-Mar-06
TIME: 0935 TO 0950
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	3.2-ft.	0.0-ft	**TOP SOIL** Dark brown to brown SILT, little f Sand, includes organic matter (roots, root traces, humus), damp, no odors.	0.0	
				.... Grading To	0.0	
2			0.6-ft.	**ALLUVIUM** Brown SILT, damp to wet, no odors.	0.1	
					0.0	
4				End of Boring @ 4.0-ft. BGS		
6						
8						
10						
12						
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				4.0-FT.	Not Encountered

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: SG-16

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Subsurface Site Characterization
Former Carriage Cleaners
1600 Penfield Road, Penfield, New York

BORING: SG-17
SHEET 1 OF 1
JOB: 205237.01
CHKD BY:

CONTRACTOR: TREC Environmental
DRILLER: Jim Agar
LABELLA REPRESENTATIVE: C. A. Stiles
BORING LOCATION:
GROUND SURFACE ELEVATION: NA
START DATE: 30-Mar-06 END DATE: 30-Mar-06
TIME: 0950 TO ###
DATUM: NA

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	2.8-ft.	0.0-ft	**TOPSOIL** Dark brown f SAND, some(-) Silt, organics present (roots, root traces, humus), damp, no odors.	0.0	
			0.5-ft.	**ALLUVIUM** Brown mf(+) SAND, moist, no odors.	0.0	
2			2.0-ft.	Brown vf SAND, some Silt, damp to wet, no odors.	0.0	
4				End of Boring @ 4.0-ft. BGS		
6						
8						
10						
12						
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				4.0-FT.	Not Encountered

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
3) Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
BGS = Below the Ground Surface
NA = Not Applicable

BORING: SG-17

LABELLA
LaBella Associates, P.C.
300 State Street
Rochester, New York 14614

Appendix 2
Monitoring Well Construction Diagrams

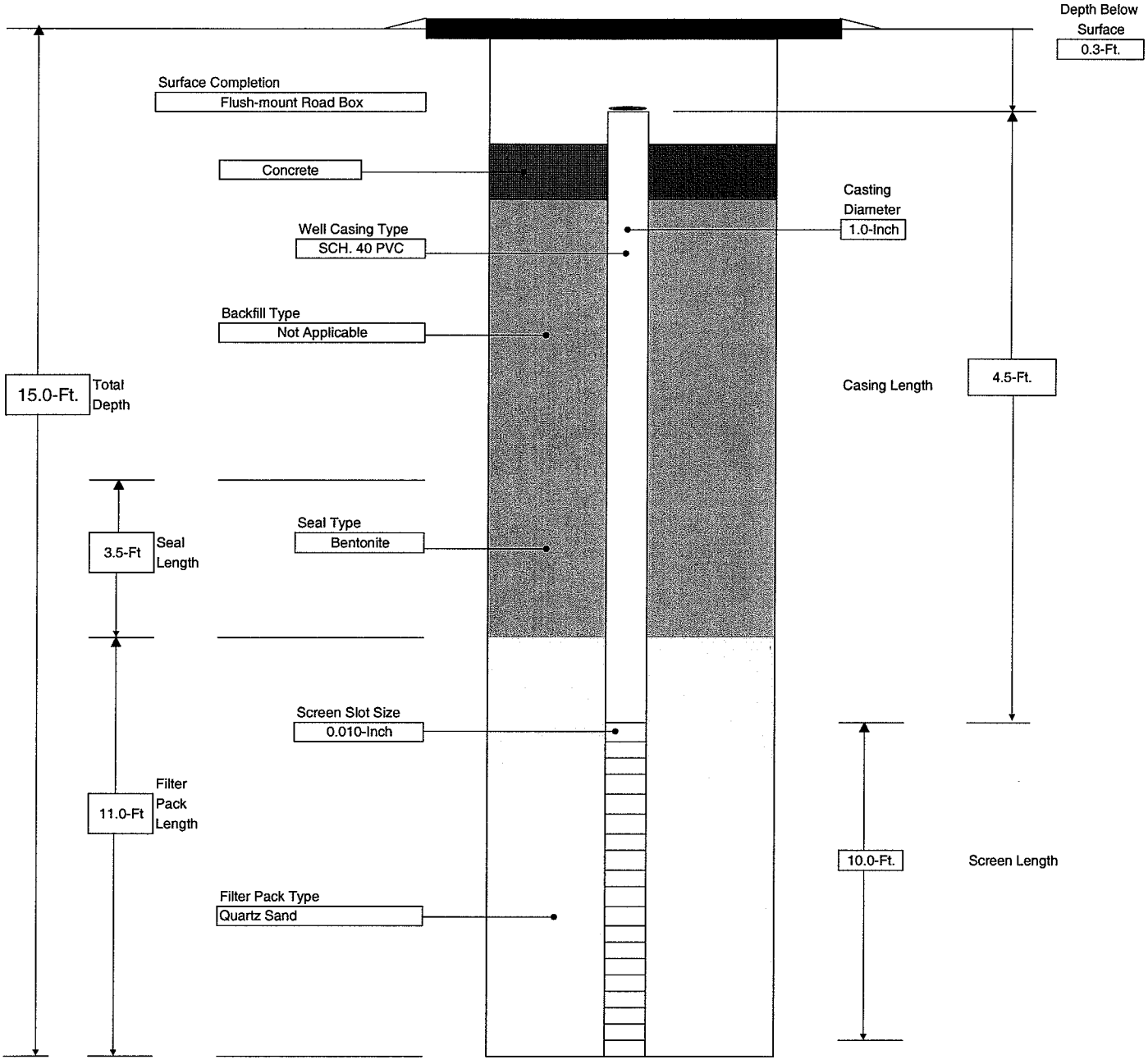
LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment Supplemental Site Characterization 1600 Penfield Road, Penfield, New York	WELL ID **MW-2 (Boring B-37)** SHEET 1 OF 1 JOB # 205237.01 CHKD. BY:

CONTRACTOR:	TREC Environmental Services, Inc.	BORING LOCATION	
DRILLER	Paul Wiley	GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE:	C.A. Stiles	START DATE 27-Oct-05	END DATE 27-Oct-05

TYPE OF DRILL RIG:	Track Mounted Geoprobe Model 5400-LT
AUGER SIZE AND TYPE	N/A
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	N/A

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS



NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

Hole Diameter 2.25"

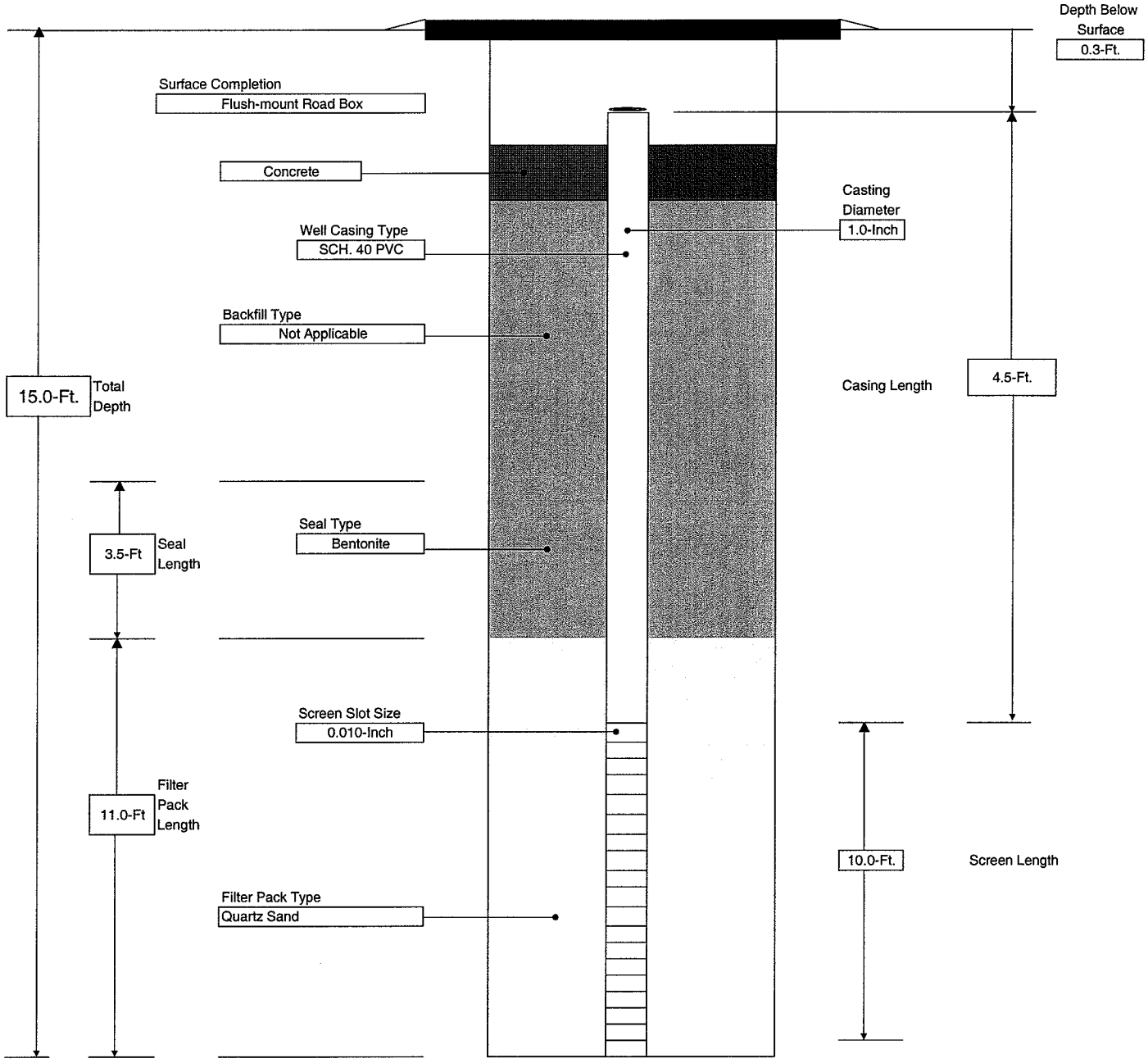
GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment Supplemental Site Characterization 1600 Penfield Road, Penfield, New York	WELL ID **MW-3 (Boring B-35)** SHEET 1 OF 1 JOB # 205237.01 CHKD. BY:

CONTRACTOR:	TREC Environmental Services, Inc.	BORING LOCATION	
DRILLER	Paul Wiley	GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE:	C.A. Stiles	START DATE 27-Oct-05	END DATE 27-Oct-05

TYPE OF DRILL RIG:	Track Mounted Geoprobe Model 5400-LT	WATER LEVEL DATA			
AUGER SIZE AND TYPE	N/A	DATE	TIME	WATER	CASING	REMARKS
OVERBURDEN SAMPLING METHOD	Direct Push					
ROCK DRILLING METHOD	N/A					



NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

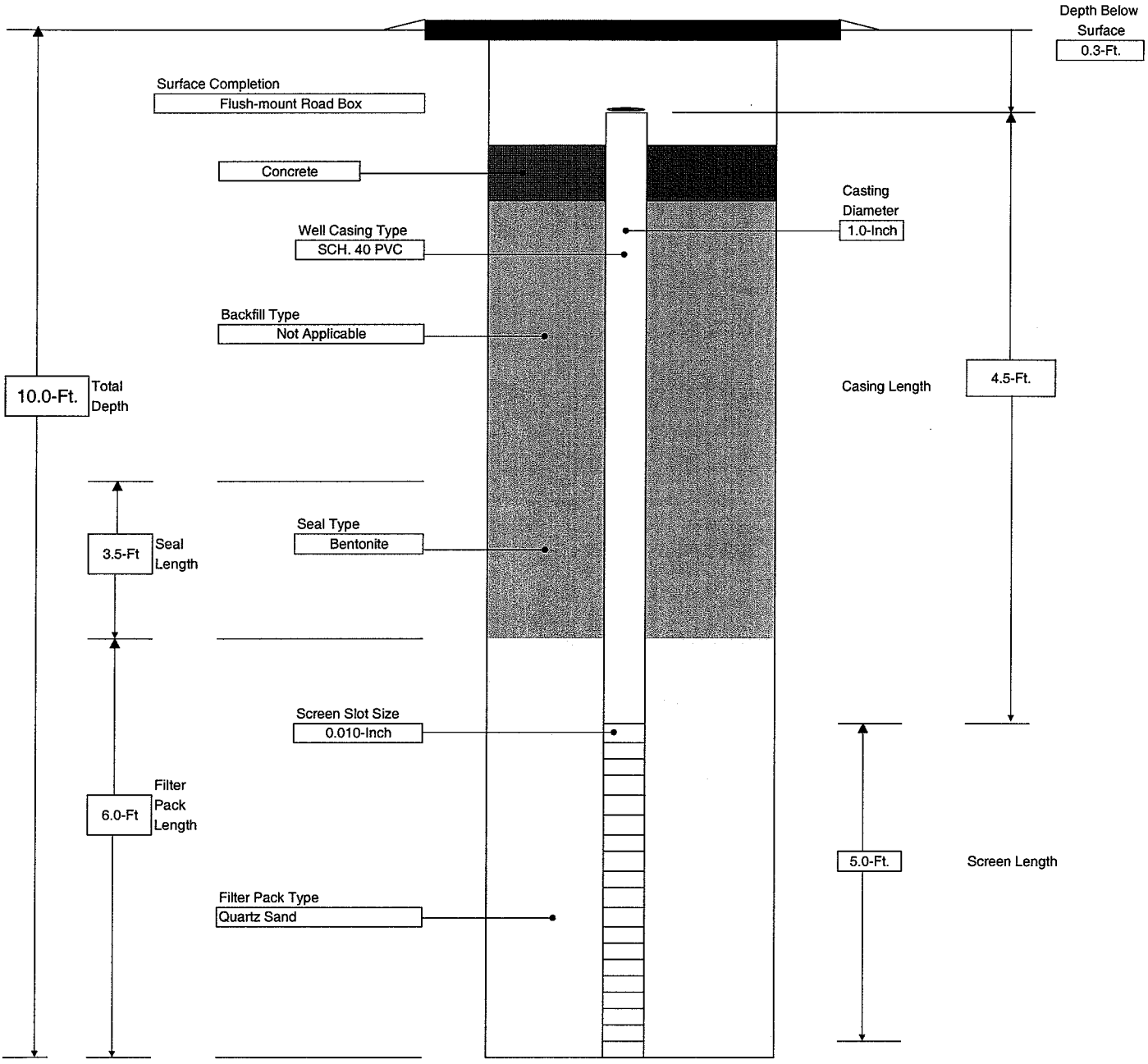
LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment Supplemental Site Characterization 1600 Penfield Road, Penfield, New York	WELL ID **MW-4 (Boring B-36)** SHEET 1 OF 1 JOB # 205237.01 CHKD. BY:

CONTRACTOR:	TREC Environmental Services, Inc.	BORING LOCATION	
DRILLER	Paul Wiley	GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE:	C.A. Stiles	START DATE 27-Oct-05	END DATE 27-Oct-05

TYPE OF DRILL RIG:	Track Mounted Geoprobe Model 5400-LT
AUGER SIZE AND TYPE	N/A
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	N/A

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS



NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

Hole Diameter 2.25"

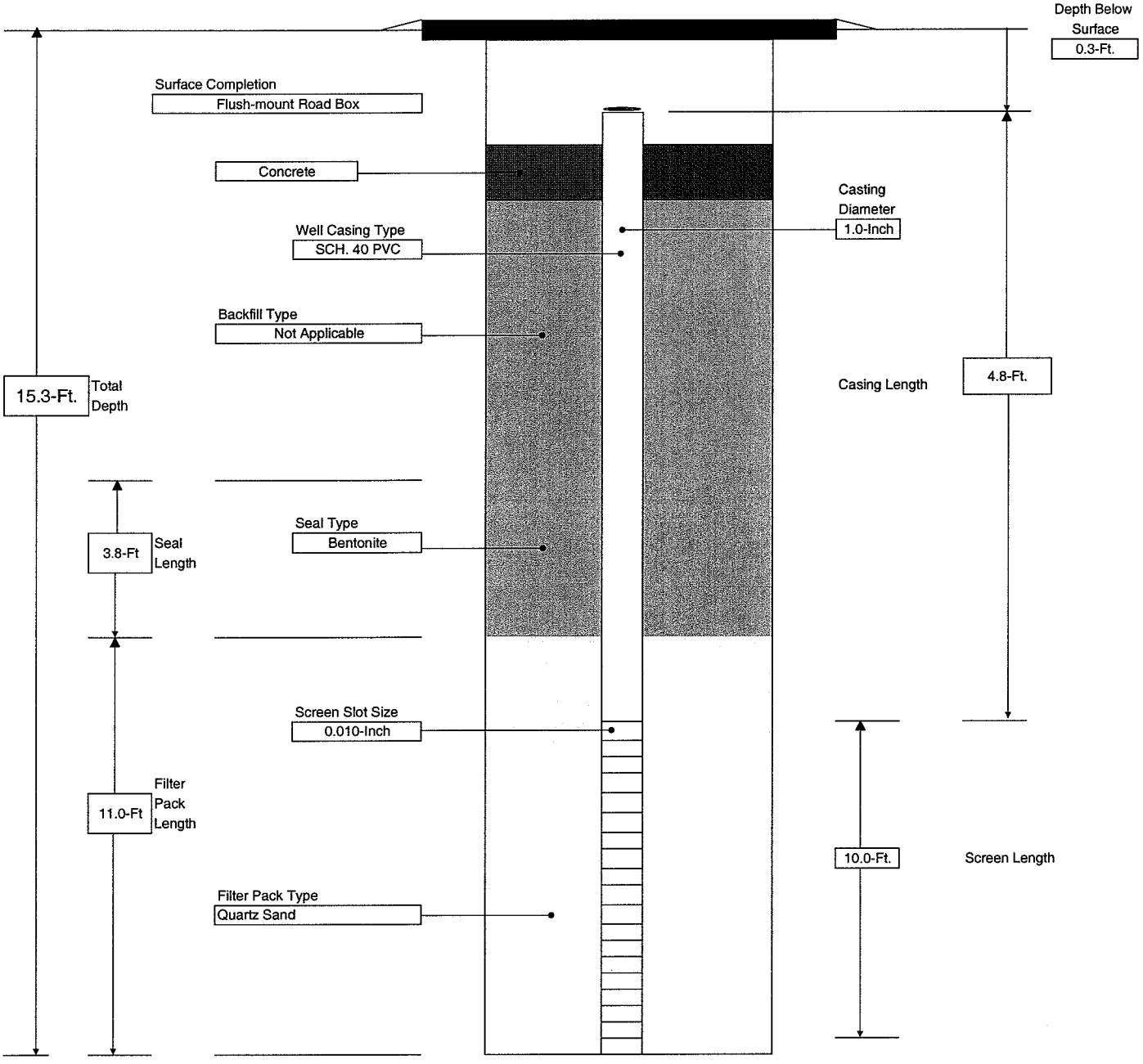
GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment Supplemental Site Characterization 1600 Penfield Road, Penfield, New York	WELL ID **MW-5 (Boring B-38)** SHEET 1 OF 1 JOB # 205237.01 CHKD. BY:

CONTRACTOR:	TREC Environmental Services, Inc.	BORING LOCATION	
DRILLER	Paul Wiley	GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE:	C.A. Stiles	START DATE 27-Oct-05	END DATE 27-Oct-05

TYPE OF DRILL RIG:	Track Mounted Geoprobe Model 5400-LT	WATER LEVEL DATA			
AUGER SIZE AND TYPE	N/A	DATE	TIME	WATER	CASING	REMARKS
OVERBURDEN SAMPLING METHOD	Direct Push					
ROCK DRILLING METHOD	N/A					



NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

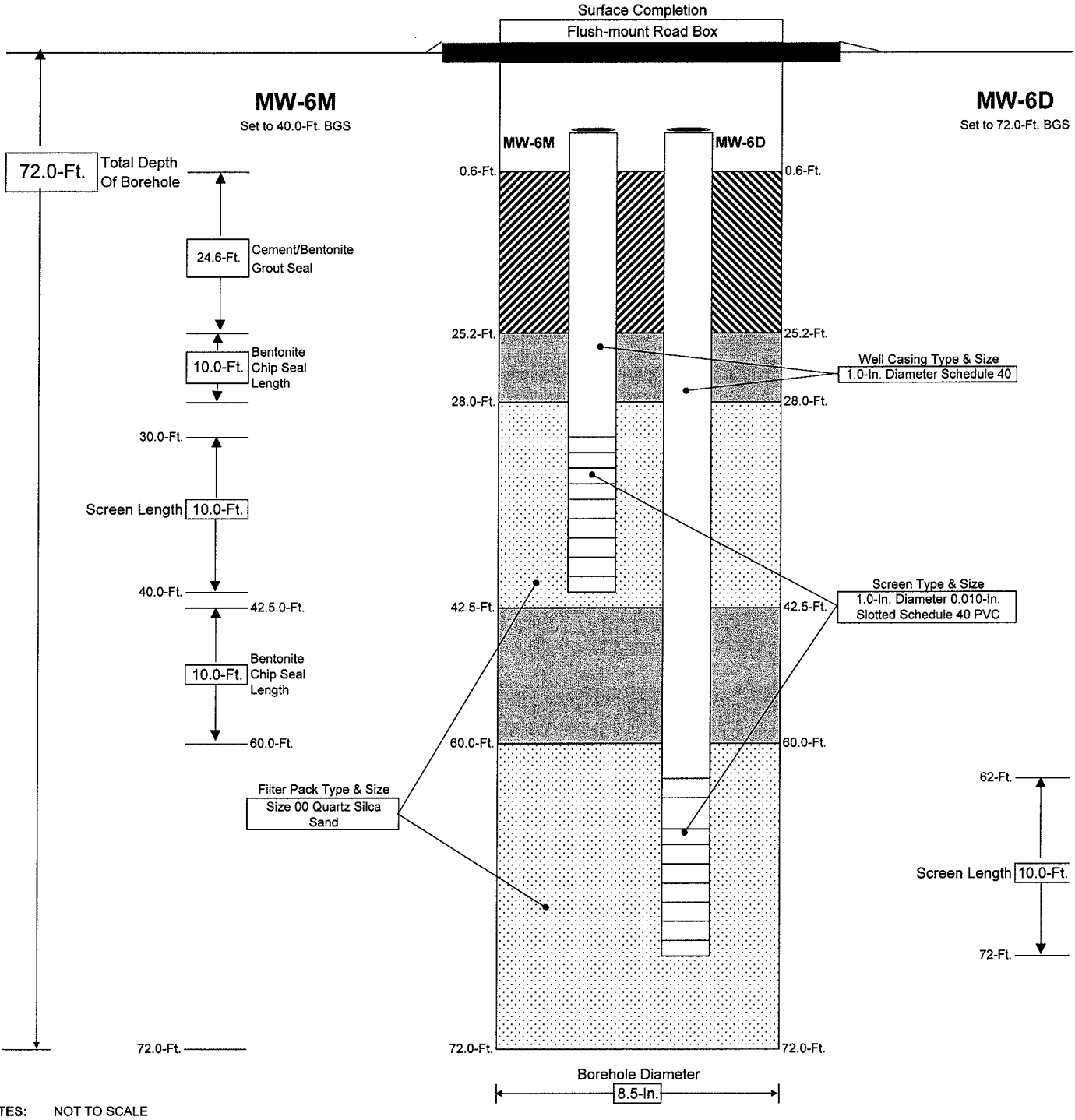
GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment Supplemental Site Characterization 1600 Penfield Road, Penfield, New York	WELL ID **MW-6M & MW-6D** SHEET 1 OF 1 JOB # 205237.01 CHKD. BY:

CONTRACTOR: TREC Environmental Services, Inc.	BORING LOCATION		
DRILLER Jim Agar	GROUND SURFACE ELEVATION	DATUM	
LABELLA REPRESENTATIVE: C.A. Stiles	START DATE 30-Mar-06	END DATE	30-Mar-06

	WATER LEVEL DATA				
TYPE OF DRILL RIG: Track Mounted Geoprobe Model 5400-LT	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE N/A					
OVERBURDEN SAMPLING METHOD Direct Push					
ROCK DRILLING METHOD N/A					



NOTES: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED
MW-6M SET TO 40.0-FT. WITH 10.0-FT. OF SCREEN (30.0-FT. - 40.0-FT.), FILTER PACK (28.0-FT - 42.5-FT), AND UPPER BENTONITE SEAL (25.2-FT - 28.0-FT)
MW-6D SET TO 72.0-FT. WITH 10.0-FT. OF SCREEN (62.0-FT. - 72.0-FT.), FILTER PACK (60.0-FT - 72.0-FT), AND UPPER BENTONITE SEAL (42.5-FT - 60.0-FT)

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

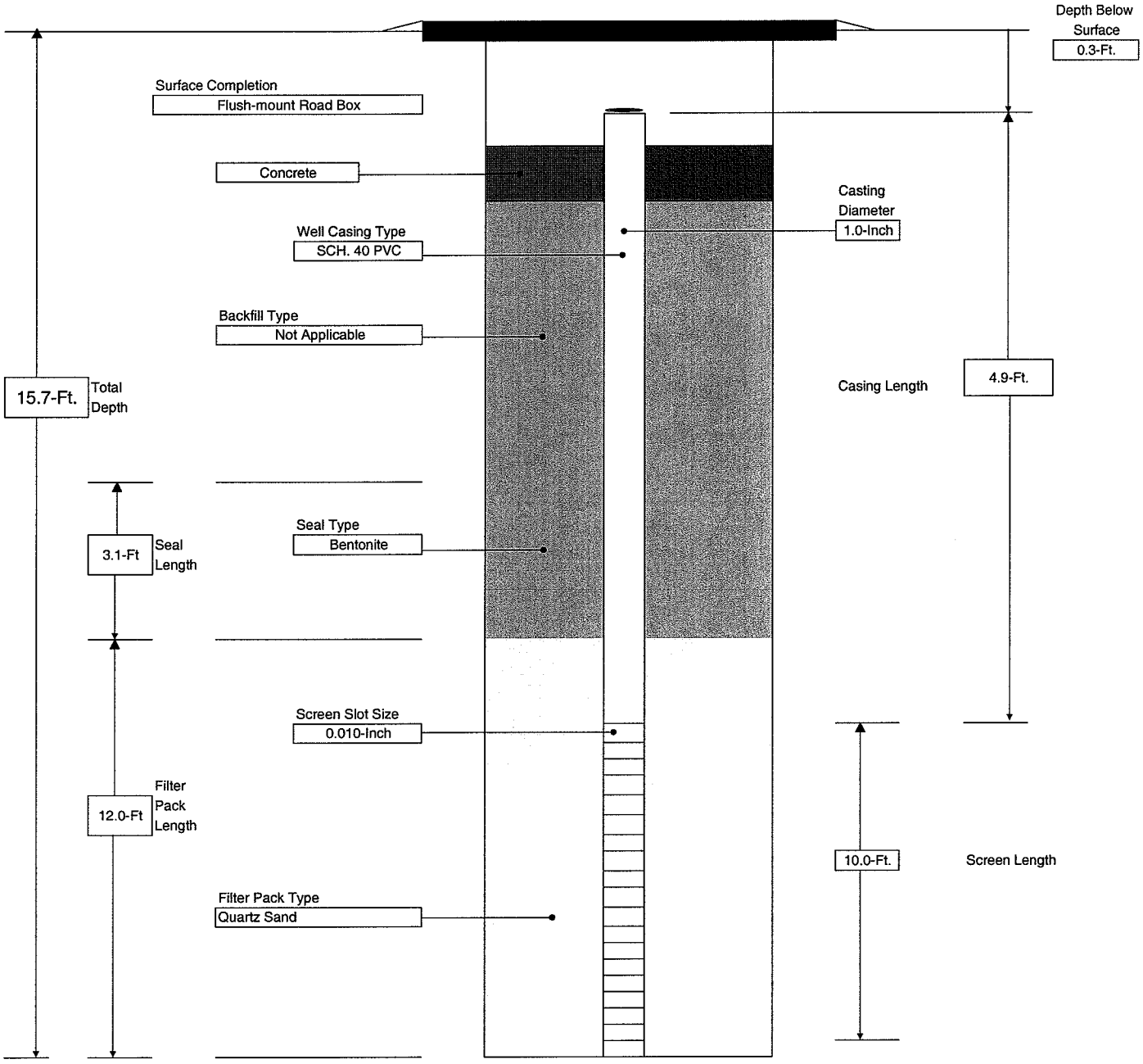
LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment Supplemental Site Characterization 1600 Penfield Road, Penfield, New York	WELL ID **MW-7 (Boring B-43)** SHEET 1 OF 1 JOB # 205237.01 CHKD. BY:

CONTRACTOR:	TREC Environmental Services, Inc.	BORING LOCATION	
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE:	C.A. Stiles	START DATE 30-Mar-06	END DATE 30-Mar-06

TYPE OF DRILL RIG:	Track Mounted Geoprobe Model 5400-LT
AUGER SIZE AND TYPE	N/A
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	N/A

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS



NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Site Characterization
1600 Penfield Road, Penfield, New York

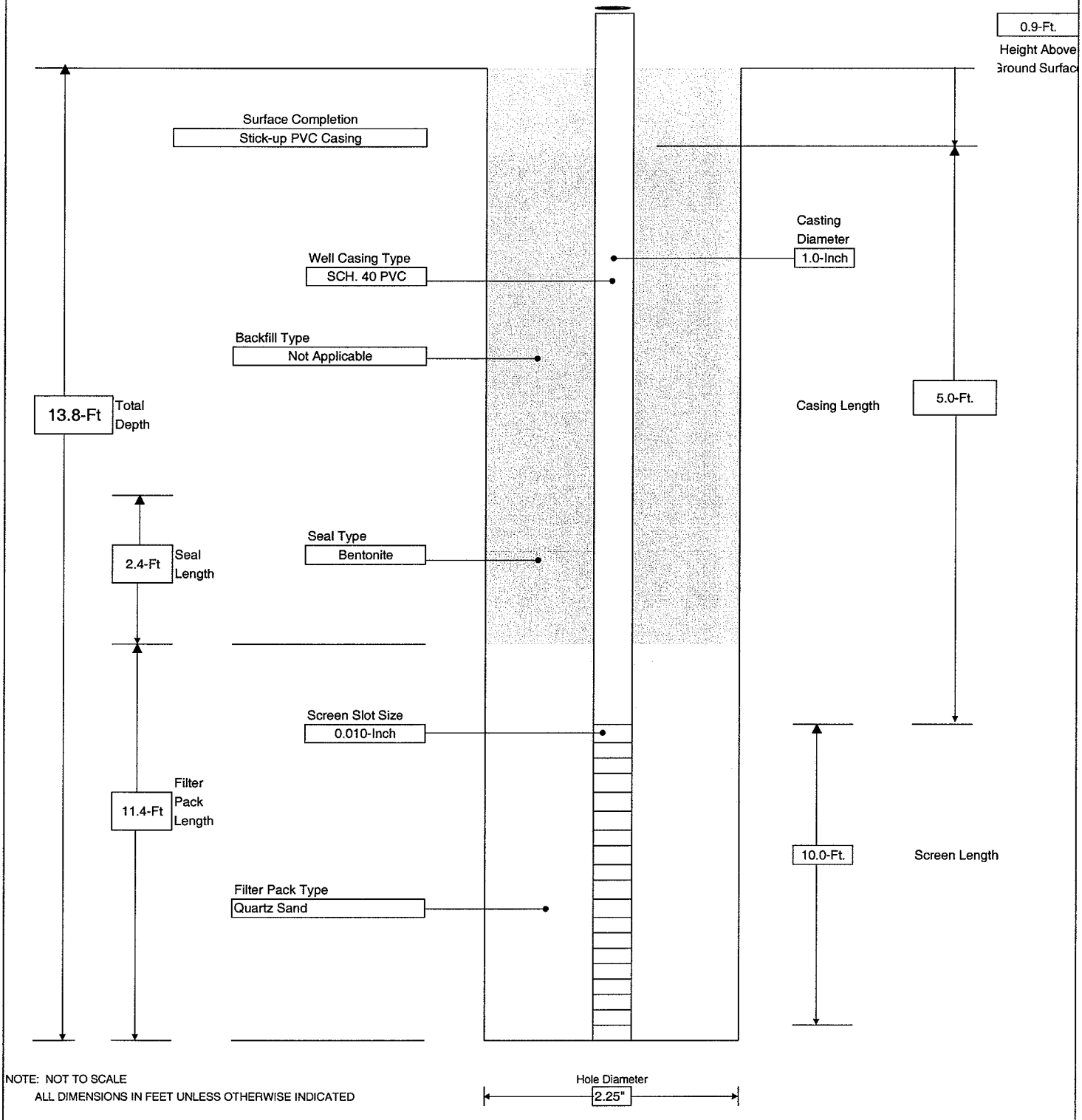
WELL ID **MW-8 (Boring B-49)**
SHEET 1 OF 1
JOB # 205237.01
CHKD. BY:

CONTRACTOR: TREC Environmental Services, Inc.
DRILLER Jim Agar
LABELLA REPRESENTATIVE: C.A. Stiles

BORING LOCATION
GROUND SURFACE ELEVATION DATUM
START DATE 30-Mar-06 END DATE 30-Mar-06

TYPE OF DRILL RIG: Track Mounted Geoprobe Model 5400-LT
AUGER SIZE AND TYPE N/A
OVERBURDEN SAMPLING METHOD Direct Push
ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS



NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

Hole Diameter
2.25"

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Site Characterization
1600 Penfield Road, Penfield, New York

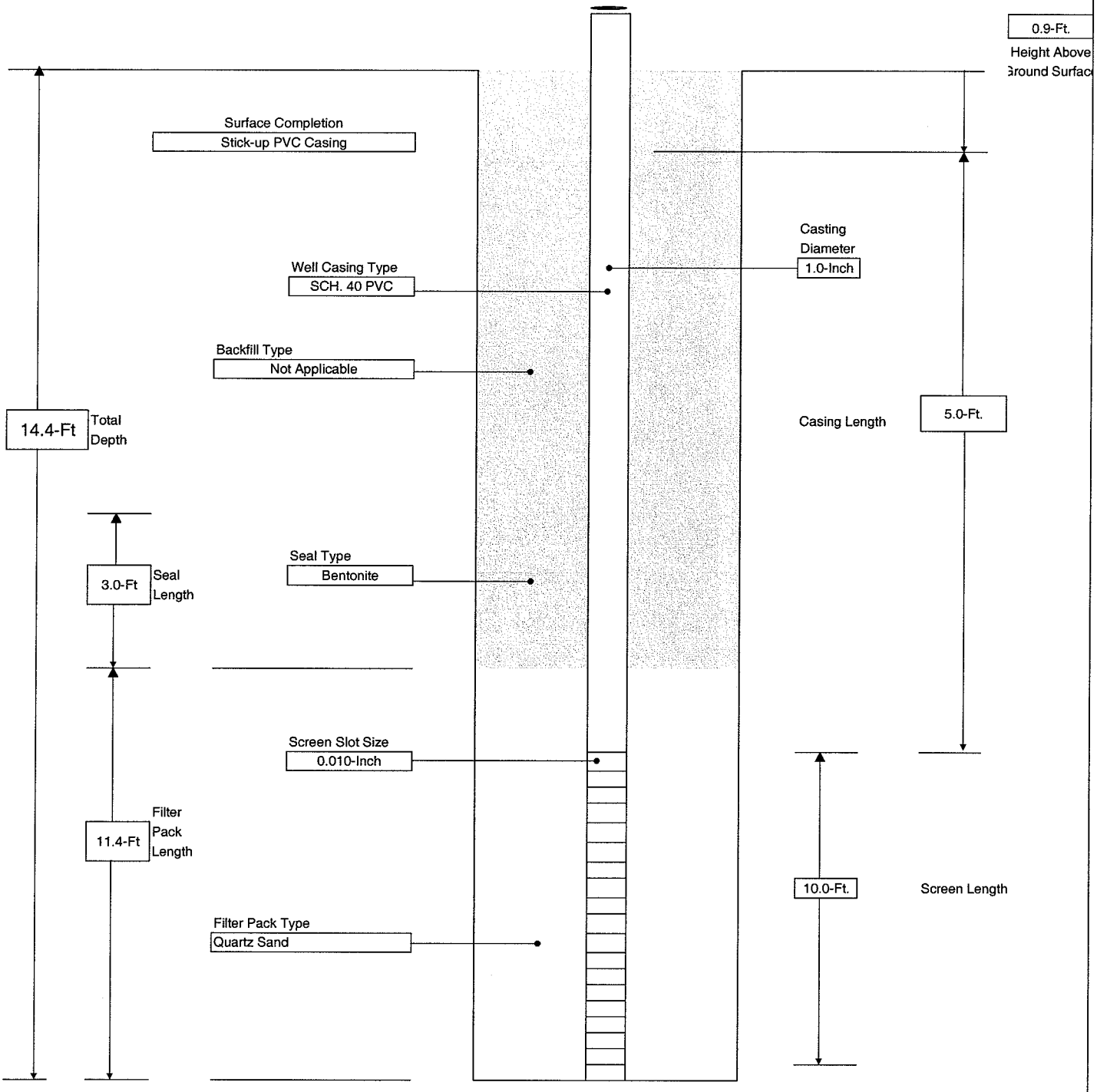
WELL ID **MW-9 (Boring B-44)**
SHEET 1 OF 1
JOB # 205237.01
CHKD. BY:

CONTRACTOR: TREC Environmental Services, Inc.
DRILLER Jim Agar
LABELLA REPRESENTATIVE: C.A. Stiles

BORING LOCATION
GROUND SURFACE ELEVATION DATUM
START DATE 30-Mar-06 END DATE 30-Mar-06

TYPE OF DRILL RIG: Track Mounted Geoprobe Model 5400-LT
AUGER SIZE AND TYPE N/A
OVERBURDEN SAMPLING METHOD Direct Push
ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS



NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

Hole Diameter
2.25"

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment Supplemental Site Characterization 1600 Penfield Road, Penfield, New York	BORING: MW-10 SHEET 1 OF 1 JOB # 205237.01 CHKD. BY:

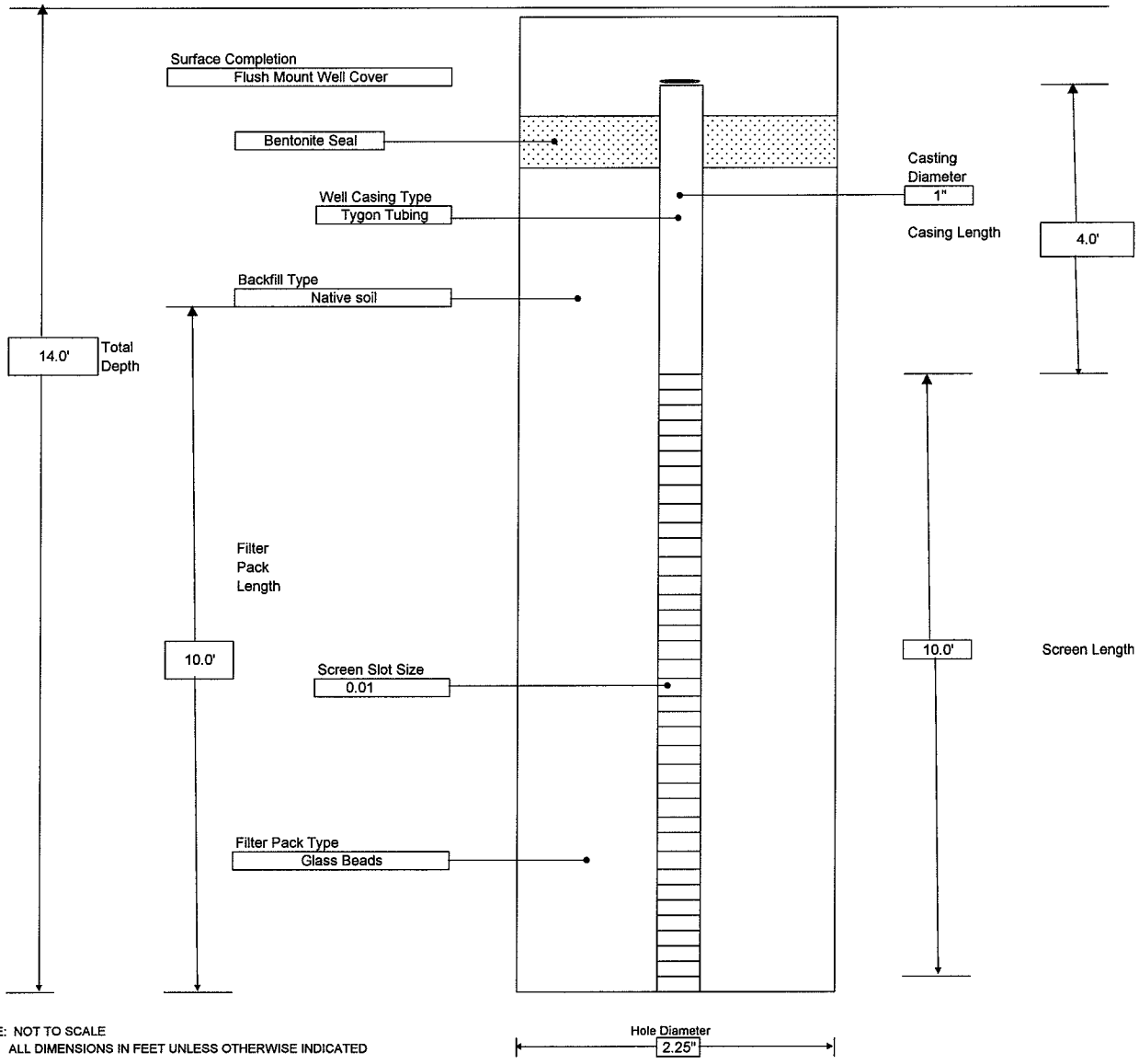
CONTRACTOR: Trec Environmental, Inc.
DRILLER: J. Agar
LABELLA REPRESENTATIVE: C.A. Stiles

BORING LOCATION:
GROUND SURFACE ELEVATION: N/A DATUM: N/A
START DATE: 3/30/06 END DATE: 3/30/06

TYPE OF DRILL RIG: Track Mounted Geioprobe Model 5400-LT
AUGER SIZE AND TYPE: N/A
OVERBURDEN SAMPLING METHOD: Direct Push
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS



NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

GENERAL NOTES:
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2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA
LaBella Associates, P.C.
300 State Street
Rochester, New York 14614

Appendix 3
Monitoring Well Development Logs

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
PH: (585) 454-6110 FAX: (585) 454-3066

GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-6M (Borehole MW-6)

Project Name: Former Carriage Cleaners
Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Development By: Craig A. Stiles
Date: February 23, 2006
Weather: Mostly cloudy w/ snow showers, 28 to 34°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Static Water Level: 6.99 -feet
Depth of Well: 38.22 -feet
Single Well Volume: 1.3 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1255	~0.5	7.49	8.4	0.213	247		Water turbid - Brown
1315	1.3	7.05	9.1	0.297	>1,000		No sheen or odor.
1330	2.6	6.99	9.3	0.319	>1,000		
1420	3.9	6.94	9.0	0.329	>1,000		
1450	5.2	6.95	9.2	0.327	>1,000		
1510	6.5	6.93	9.2	0.326	>1,000		

Total 6.5 Gallons Purged Purge Start Time: 1255 Purge End Time: 1510

OBSERVATIONS:

- Field parameter readings have stabilized for 3 successive well volumes, but no observable improvement in turbidity.
- Development complete.

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
PH: (585) 454-6110 FAX: (585) 454-3066

GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-6D (Borehole MW-6)

Project Name: Former Carriage Cleaners
Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Development By: Craig A. Stiles
Date: February 23, 2006
Weather: Mostly cloudy w/ snow showers, 28 to 34°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Static Water Level: 7.14 -feet
Depth of Well: 69.65 -feet
Single Well Volume: 2.60 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1335	~0.05	7.22	8.8	0.220	>1,000		Water turbid - Brown
1355	2.6	6.91	9.4	0.267	>1,000		No sheen or odor.
1413	5.2	6.82	9.5	0.271	>1,000		
1435	7.8	6.80	9.4	0.253	>1,000		
1455	10.4	6.79	9.1	0.260	>1,000		

Total 10.4 Gallons Purged Purge Start Time: 1335 Purge End Time: 1455

OBSERVATIONS:

- Field parameter readings have stabilized for 3 successive well volumes, but no observable improvement in turbidity.
- Development complete.

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GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-7 (Borehole B-43)

Project Name: Former Carriage Cleaners
Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Development By: Craig A. Stiles
Date: April 3, 2006
Weather: Mostly cloudy w/showers, windy, ~50 to 64°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Static Water Level: 7.14 -feet
Depth of Well: 15.16 -feet
Single Well Volume: 0.33 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1400	~0.05	6.59	14.8	1.204	>1,000		Water turbid - Brownish-gray.
1405	0.33	6.88	13.0	1.201	>1,000		No sheen or odor.
1410	0.67	6.80	12.7	1.301	>1,000		
1415	1.00	6.74	12.9	1.357	>1,000		
1420	1.33	6.78	13.0	1.375	>1,000		

Total 1.33 Gallons Purged Purge Start Time: 1400 Purge End Time: 1420

OBSERVATIONS:

- Field parameter readings have stabilized for 3 successive well volumes, but no observable improvement in turbidity.
- Development complete.

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GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-8 (Borehole B-49)

Project Name: Former Carriage Cleaners
Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Development By: Craig A. Stiles
Date: April 3, 2006
Weather: Mostly cloudy w/showers, windy, ~50 to 64°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Static Water Level: 9.99 -feet
Depth of Well: 14.55 -feet
Single Well Volume: 0.19 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1508	~0.05	6.97	10.4	1.316	>1,000		Water turbid - Brownish-gray.
1512	0.19	6.82	10.8	1.129	>1,000		No sheen or odor.
1515	0.38	6.85	10.9	1.219	>1,000		
1518	0.57	6.82	11.2	1.204	>1,000		
1522	0.76	6.80	11.0	1.217	>1,000		

Total 0.76 Gallons Purged Purge Start Time: 1508 Purge End Time: 1522

OBSERVATIONS:

- Field parameter readings have stabilized for 3 successive well volumes, but no observable improvement in turbidity.
- Development complete.

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GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-9 (Borehole B-44)

Project Name: Former Carriage Cleaners
Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Development By: Craig A. Stiles
Date: April 3, 2006
Weather: Mostly cloudy w/showers, windy, ~50 to 64°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Static Water Level: 9.09 -feet
Depth of Well: 14.35 -feet
Single Well Volume: 0.21 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1425	~0.05	6.81	11.7	2.010	840		Water turbid - Brownish-gray.
1430	0.21	6.71	11.5	2.010	>1,000		No sheen, but slight Perchloroethylene
1434	0.42	6.69	11.4	1.753	>1,000		odor.
1438	0.63	6.70	11.3	1.610	>1,000		
1443	0.84	6.72	11.3	1.436	>1,000		
1447	1.05	6.67	11.2	1.408	>1,000		
1452	1.26	6.70	11.2	1.401	>1,000		

Total 1.26 Gallons Purged
Purge Start Time: 1425
Purge End Time: 1452

OBSERVATIONS:

- Field parameter readings have stabilized for 3 successive well volumes, but no observable improvement in turbidity.
- Development complete.

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GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-10 (Borehole B-47)

Project Name: Former Carriage Cleaners
Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Development By: Craig A. Stiles
Date: April 3, 2006
Weather: Mostly cloudy w/showers, windy, ~50 to 64°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Static Water Level: 0938 -feet
Depth of Well: 15.13 -feet
Single Well Volume: 0.23 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1453	~0.05	7.49	10.8	1.420	>1,000		Water turbid - Brownish-gray.
1456	0.23	6.89	11.1	1.413	>1,000		No sheen, but very slight
1500	0.26	6.84	11.1	1.433	>1,000		Perchloroethylene odor.
1504	0.69	6.90	11.2	1.414	>1,000		

Total 0.69 Gallons Purged Purge Start Time: 1453 Purge End Time: 1504

OBSERVATIONS:

- Field parameter readings have stabilized for 3 successive well volumes, but no observable improvement in turbidity.
- Development complete.

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GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-2 (Borehole B-37)

Project Name: Former Carriage Cleaners
Project No.: 205237 Task 2
Location: 1600 Penfield Rd., Penfield, NY
Development By: Craig A. Stiles
Date: October 31, 2005
Weather: Cloudy, ~50°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0-inch
Static Water Level: 6.96-feet
Depth of Well: 14.96-feet
Single Well Volume: 0.33-gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
0930	~0.04	7.30	16.0	0.004	276		Water turbid - Brownish-gray.
0940	0.33	7.01	16.6	0.0245	>1,000		No sheen or odor.
0946	0.66	6.85	16.9	0.247	>1,000		
0951	0.99	6.81	16.9	0.258	>1,000		
0957	1.32	6.81	16.8	0.684	>1,000		
1004	1.65	6.80	16.6	0.69	>1,000		
1010	1.98	6.77	16.5	0.731	>1,000		

Total 1.98 Gallons Purged Purge Start Time: 0930 Purge End Time: 1010

OBSERVATIONS:

- Field parameter readings have stabilized for 3 successive well volumes, but no observable improvement in turbidity.
- Development complete.

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GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-3 (Borehole B-35)

Project Name: Former Carriage Cleaners
Project No.: 205237 Task 2
Location: 1600 Penfield Rd., Penfield, NY
Development By: Craig A. Stiles
Date: October 31, 2005
Weather: Cloudy, ~50°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0-inch
Static Water Level: 3.91-feet
Depth of Well: 14.24-feet
Single Well Volume: 0.42-gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1020	~0.04	7.00	13.9	0.00125	136		Water turbid - Brownish-gray.
1029	0.42	6.70	14.9	0.00097	>1,000		No sheen or odor.
1035	0.84	6.67	15.2	0.770	>1,000		
1040	1.26	6.64	15.2	0.300	>1,000		
1045	1.68	6.71	15.1	0.537	842		
1050	2.10	6.69	15.2	0.545	>1,000		
1055	2.52	6.65	15.1	0.557	>1,000		

Total 2.52 Gallons Purged Purge Start Time: 1020 Purge End Time: 1055

OBSERVATIONS:

- Field parameter readings have stabilized for 3 successive well volumes, but no observable improvement in turbidity.
- Development complete.

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GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-4 (Borehole B-36)

Project Name: Former Carriage Cleaners
Location: 1600 Penfield Rd., Penfield, NY
Development By: Craig A. Stiles
Weather: Cloudy, ~55°F

Project No.: 205237 Task 2
Date: October 31, 2005

PURGE VOLUME CALCULATION

Well Diameter: 1.0-inch
Depth of Well: 9.60-feet
Static Water Level: 4.45-feet
Single Well Volume: 0.21-gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
Sampling Device: PVC - Dedicated
☐ Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1140	~0.04	6.89	15.3	0.940	114		Water turbid - Grayish-brown.
1149	0.21	6.82	15.2	0.889	>1,000		No sheen or odor.
1155	0.42	6.83	15.7	0.873	>1,000		
1200	0.63	6.81	15.4	0.864	>1,000		

Total 0.63 Gallons Purged Purge Start Time: 1140 Purge End Time: 1200

OBSERVATIONS:

- Field parameter readings have stabilized for 3 successive well volumes, but no observable improvement in turbidity.
- Development complete.

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GROUNDWATER DEVELOPMENT FORM

WELL I.D. MW-5 (Borehole B-38)

Project Name: Former Carriage Cleaners
Project No.: 205237 Task 2
Location: 1600 Penfield Rd., Penfield, NY
Development By: Craig A. Stiles
Date: October 31, 2005
Weather: Partly cloudy, ~52°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0-inch
Static Water Level: 7.05-feet
Depth of Well: 15.30-feet
Single Well Volume: 0.34-gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1105	~0.04	7.06	17.9	0.813	47.1		Water turbid - Grayish-brown.
1115	0.34	6.84	17.7	0.952	>1,000		No sheen or odor.
1123	0.68	6.80	17.3	0.998	>1,000		
1130	1.02	6.88	17.5	1.006	>1,000		

Total 1.02 Gallons Purged Purge Start Time: 1105 Purge End Time: 1130

OBSERVATIONS:

- Field parameter readings have stabilized for 3 successive well volumes, but no observable improvement in turbidity.
- Development complete.

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Appendix 4
Monitoring Well Sampling Logs

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-2 (Borehole B-37)

Project Name: Former Carriage Cleaners Project No.: 205237
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles Date: November 2, 2005
Weather: Mostly cloudy, ~55°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0-Inch Static Water Level: 7.14-feet
Depth of Well: 14.70-feet Single Well Volume: 0.31-gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated ☐ Pump - Type
Sampling Device: PVC - Dedicated Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1020	~0.04	7.13	15.5	0.899	>1,000		Water turbid - Grayish-brown.
1025	0.31	6.97	16.4	1.067	>1,000		No sheen or odor.
1030	0.62	6.96	16.2	1.087	>1,000		
1035	0.93	6.97	16.5	1.085	>1,000		
1045	Sample	6.98	16.3	1.107	>1,000		

Total 0.93-Gal. Gallons Purged Purge Start Time: 0930 Purge End Time: 1035

WELL SAMPLING

Sample I.D. MW-2 Sample Time: 1045
No. of Containers: 2 Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

1035	- Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
1045	- Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-3 (Borehole B-35)

Project Name: Former Carriage Cleaners
Project No.: 205237
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles
Date: November 2, 2005
Weather: Mostly cloudy, ~55°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0-Inch
Static Water Level: 4.07-feet
Depth of Well: 14.00-feet
Single Well Volume: 0.41-gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
0930	~0.04	7.04	14.1	0.930	>1,000		Water turbid - Brownish-gray.
0935	0.41	7.03	15.3	0.961	>1,000		No sheen or odor.
1000	0.82	7.03	14.1	0.948	>1,000		
1005	1.25	7.02	15.0	0.936	>1,000		
1015	Sample	7.03	14.9	0.979	>1,000		

Total 1.25 Gallons Purged Purge Start Time: 0930 Purge End Time: 1015

WELL SAMPLING

Sample I.D. MW-3
Sample Time: 1015
No. of Containers: 2
Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

0930	- Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement
	in turbidity.
0940	- Troubleshoot water quality meter.
0955	-Meter repaired, resume purging.
1015	- Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-4 (Borehole B-36)

Project Name: Former Carriage Cleaners
Project No.: 205237
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles
Date: November 2, 2005
Weather: Mostly cloudy, ~55°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0-Inch
Static Water Level: 4.60-feet
Depth of Well: 9.66-feet
Single Well Volume: 0.21-gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
0905	~0.04	6.87	15.4	0.787	843		Water turbid - Grayish-brown.
0909	0.21	6.84	15.5	0.867	>1,000		No sheen or odor.
0913	0.42	6.83	15.2	0.876	>1,000		
0917	0.63	6.83	15.5	0.881	>1,000		
0925	Sample	6.84	15.4	0.926	>1,000		

Total 0.63 Gallons Purged Purge Start Time: 0905 Purge End Time: 0917

WELL SAMPLING

Sample I.D. MW-4
Sample Time: 0925
No. of Containers: 2
Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

0917	- Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
0925	- Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-5 (Borehole B-38)

Project Name: Former Carriage Cleaners
Project No.: 205237
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles
Date: November 2, 2005
Weather: Mostly cloudy, ~55°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0-Inch
Static Water Level: 7.20-feet
Depth of Well: 14.96-feet
Single Well Volume: 0.32-gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
☐ Pump - Type
Sampling Device: PVC - Dedicated
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
0834	~0.04	7.29	15.1	0.186	24.3		Water turbid - Brown.
0839	0.32	7.11	16.1	0.214	>1,000		No sheen or odor.
0844	0.65	7.02	16.4	0.786	>1,000		
0849	1.00	7.04	16.6	0.814	>1,000		
0855	Sample	7.00	16.6	0.797	>1,000		

Total 1.00 Gallons Purged Purge Start Time: 0834 Purge End Time: 0855

WELL SAMPLING

Sample I.D. MW-5
Sample Time: 0855
No. of Containers: 2
Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

0849 - Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
0855 - Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-2 (Borehole B-37)

RESAMPLE

Project Name: Former Carriage Cleaners Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles Date: November 21, 2005
Weather: Partly Cloudy, ~49°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Depth of Well: 14.65 -feet
Static Water Level: 7.07 -feet
Single Well Volume: 0.31 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
Sampling Device: PVC - Dedicated
☐ Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1020	~0.05	7.13	14.4	0.259	31.4		Water turbid - Grayish-brown.
1025	0.31	6.99	15.1	0.983	>1,000		No sheen or odor.
1030	0.62	6.92	15.3	1.07	>1,000		
1035	1.00	6.94	15.2	1.04	>1,000		
1045	Post Sample	6.95	14.9	1.10	>1,000		

Total 1.00-Gal. Gallons Purged Purge Start Time: 1020 Purge End Time: 1035

WELL SAMPLING

Sample I.D. MW-2
No. of Containers: 2
Sample Time: 1045
Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

1035 - Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
1045 - Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-3 (Borehole B-35)

RESAMPLE

Project Name: Former Carriage Cleaners Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles Date: November 21, 2005
Weather: Partly Cloudy, ~49°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch Static Water Level: 3.98 -feet
Depth of Well: 13.95 -feet Single Well Volume: 0.42 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated ☐ Pump - Type
Sampling Device: PVC - Dedicated Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1055	~0.05	7.42	12.6	0.215	97.3		Water turbid - Brownish-gray.
1100	0.42	7.09	12.8	0.897	>1,000		No sheen or odor.
1105	0.84	7.06	13.0	0.93	>1,000		
1110	1.26	7.04	13.1	0.95	>1,000		
1120	Post Sample	7.07	12.9	0.97	>1,000		

Total 1.26 Gallons Purged Purge Start Time: 1055 Purge End Time: 1110

WELL SAMPLING

Sample I.D. MW-3 Sample Time: 1120
No. of Containers: 2 Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

1110	- Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
1120	- Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-4 (Borehole B-36)

RESAMPLE

Project Name: Former Carriage Cleaners Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles Date: November 21, 2005
Weather: Partly Cloudy, ~49°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Depth of Well: 9.57 -feet
Static Water Level: 4.48 -feet
Single Well Volume: 0.22 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
Sampling Device: PVC - Dedicated
☐ Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
1125	~0.05	6.83	13.2	0.513	142		Water turbid - Grayish-brown.
1130	0.22	6.75	13.4	0.819	>1,000		No sheen or odor.
1135	0.44	6.79	13.1	0.831	>1,000		
1140	0.66	6.82	13.2	0.834	>1,000		
1150	Post Sample	6.82	13.0	0.846	>1,000		

Total 1.0 Gallons Purged Purge Start Time: 1125 Purge End Time: 1140

WELL SAMPLING

Sample I.D. MW-4
No. of Containers: 2
Sample Time: 1150
Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

1140 - Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
1150 - Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-5 (Borehole B-38)

RESAMPLE

Project Name: Former Carriage Cleaners Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles Date: November 21, 2005
Weather: Partly Cloudy, ~49°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch Static Water Level: 7.13 -feet
Depth of Well: 14.77 -feet Single Well Volume: 0.32 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated ☐ Pump - Type
Sampling Device: PVC - Dedicated Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
0945	~0.05	7.10	13.8	0.226	96.4		Water turbid - Grayish-brown.
0950	0.32	6.91	15.7	0.780	>1,000		No sheen or odor.
0955	0.64	6.94	15.6	0.811	>1,000		
1000	1.00	6.96	15.6	0.803	>1,000		
1010	Post Sample	6.95	15.3	0.795	>1,000		

Total 1.00 Gallons Purged Purge Start Time: 0945 Purge End Time: 1000

WELL SAMPLING

Sample I.D. MW-5 Sample Time: 1010
No. of Containers: 2 Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

1000	- Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
1010	- Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-7 (Borehole B-43)

Project Name: Former Carriage Cleaners Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles Date: April 5, 2006
Weather: Mostly cloudy breezy, ~48 to 56°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Depth of Well: 15.16 -feet
Static Water Level: 7.15 -feet
Single Well Volume: 0.33 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
Sampling Device: PVC - Dedicated
☐ Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
0825	~0.05	7.11	10.3	0.899	>1,000		Water turbid - Grayish-brown.
0829	0.33	6.93	11.5	1.067	>1,000		No sheen or odor.
0832	0.67	6.84	11.3	1.087	>1,000		
0836	1.00	6.8	11.1	1.085	>1,000		
0845	Post Sample	6.82	11.2	1.107	>1,000		

Total 1.00-Gal. Gallons Purged Purge Start Time: 0825 Purge End Time: 0836

WELL SAMPLING

Sample I.D. MW-7
No. of Containers: 2
Sample Time: 0845
Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

0836	- Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
0845	- Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-8 (Borehole B-49)

Project Name: Former Carriage Cleaners Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles Date: April 5, 2006
Weather: Mostly cloudy breezy, ~48 to 56°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Depth of Well: 14.70 -feet
Static Water Level: 10.00 -feet
Single Well Volume: 0.19 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
Sampling Device: PVC - Dedicated
☐ Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
0850	~0.05	6.93	11.4	1.290	>1,000		Water turbid - Grayish-brown.
0854	0.19	6.80	11.1	1.241	>1,000		No sheen or odor.
0857	0.38	6.83	11.1	1.302	>1,000		
0900	0.57	6.84	11.2	1.326	>1,000		
0908	Post Sample	6.82	11.1	1.337	>1,000		

Total 0.57-Gal. Gallons Purged Purge Start Time: '0850 Purge End Time: 0900

WELL SAMPLING

Sample I.D. MW-8
No. of Containers: 2
Sample Time: 0908
Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

0900	- Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
0908	- Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-9 (Borehole B-44)

Project Name: Former Carriage Cleaners Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles Date: April 5, 2006
Weather: Mostly cloudy breezy, ~48 to 56°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Depth of Well: 14.80 -feet
Static Water Level: 9.11 -feet
Single Well Volume: 0.23 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
Sampling Device: PVC - Dedicated
☐ Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
0938	~0.05	7.13	10.1	1.680	>1,000		Water turbid - Grayish-brown.
0942	0.23	7.00	10.4	1.787	>1,000		No sheen, but slight to moderate
0947	0.46	6.95	10.1	1.639	>1,000		Perchloroethylene odor.
0952	0.69	6.91	10.2	1.613	>1,000		
1000	Post Sample	6.91	9.9	1.619	>1,000		

Total 0.69-Gal. Gallons Purged Purge Start Time: '0938 Purge End Time: 0952

WELL SAMPLING

Sample I.D. MW-9
No. of Containers: 2
Sample Time: 1000
Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

0952	- Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
1000	- Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-10 (Borehole B-47)

Project Name: Former Carriage Cleaners Project No.: 205237.01
Location: 1600 Penfield Rd., Penfield, NY
Sampled By: Craig A. Stiles Date: April 5, 2006
Weather: Mostly cloudy breezy, ~48 to 56°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -inch
Depth of Well: 14.84 -feet
Static Water Level: 9.40 -feet
Single Well Volume: 0.22 -gallons

PURGE & SAMPLING METHOD

☒ Bailer - Type: PVC - Dedicated
Sampling Device: PVC - Dedicated
☐ Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)		Comments
0913	~0.05	7.26	10.4	1..438	>1,000		Water turbid - Grayish-brown.
0916	0.22	6.91	10.9	1.480	>1,000		No sheen, but very slight
0920	0.44	6.81	11.2	1.447	>1,000		Perchloroethylene odor.
0924	0.66	6.87	11.1	1.437	>1,000		
0930	Post Sample	6.83	10.8	1.440	>1,000		

Total 0.66-Gal. Gallons Purged Purge Start Time: 0913 Purge End Time: 0924

WELL SAMPLING

Sample I.D. MW-10
No. of Containers: 2
Sample Time: 0930
Sample Preservation: HCl (VOCs) & 4°C

Sampled For:
☒ VOCs - 8260B TCL
☐ SVOCs - 8270C NYSDEC STARS Only
☐ VOCs - 8260B NYSDEC STARS Only
☐ Total RCRA Metals
☐ PCBs
☐ Other

OBSERVATIONS:

0924	- Field parameter readings have stabilized for 2 successive well volumes, but no observable improvement in turbidity.
0930	- Sample collected and placed in cooler on ice.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-2

Project Name: Remedial Investigation: Post-IRM GW Sampling 205237.02
Location: 1600 Penfield Road, Penfield, New York
Sampled By: Craig A. Stiles 3-Mar-08
Weather: Partly Cloudy, ~60°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -Inch
Depth of Well: 14.55 -Feet
Static Water Level: 6.95 -Feet
Single Well Volume: 0.31 -Gallons

PURGE & SAMPLING METHOD

[X] Bailer - Type: PVC - Dedicated
Sampling Device:
[ ] Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1401	~0.05	7.47	9.9	1.355	242	141	Color = Brown
1404	0.31	7.29	10.7	1.417	563	67	LNAPL or DNAPL observed ~~YES~~ / **NO**
1407	0.62	7.15	11.3	1.781	>1,000	15	Petroleum sheen observed. ~~YES~~ / **NO**
1410	0.93	7.04	11.8	1.890	>1,000	3	Odor detected. ~~YES~~ / **NO**
1415	Sample	7.01	11.7	1.927	>1,000	0	

Total 0.93 Gallons Purged Purge Start Time: 1401 Purge End Time: 1410

WELL SAMPLING

Sample I.D. MW-2
No. of Containers: 2
Sample Time: 1415
Sample Preservation: HCl

Sampled For:
[X] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total~~ / Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

Well Volume (1" well) = 0.0408-gal/ft.	Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.	

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-3

Project Name: Remedial Investigation: Post-IRM GW Sampling 205237.02
Location: 1600 Penfield Road, Penfield, New York
Sampled By: Craig A. Stiles 4-Mar-08
Weather: Partly Cloudy, ~30°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -Inch
Depth of Well: 13.80 -Feet
Static Water Level: 3.22 -Feet
Single Well Volume: 0.43 -Gallons

PURGE & SAMPLING METHOD

[X] Bailer - Type: PVC - Dedicated
Sampling Device:
[ ] Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1212	~0.10	6.93	8.8	1.011	>1,000	26	Color = Brown
1215	0.43	6.89	9.4	1.162	>1,000	20	LNAPL or DNAPL observed ~~YES~~ / **NO**
1218	0.86	6.88	10.0	1.311	>1,000	5	Petroleum sheen observed. ~~YES~~ / **NO**
1221	1.29	6.86	10.1	1.335	>1,000	-1	Odor detected. ~~YES~~ / **NO**
1230	Sample	6.84	10.1	1.390	>1,000	-3	

Total 1.29 Gallons Purged Purge Start Time: 1212 Purge End Time: 1221

WELL SAMPLING

Sample I.D. MW-3
No. of Containers: 2
Sample Time: 1230
Sample Preservation: HCl

Sampled For:
[X] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total~~ / Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

Well Volume (1" well) = 0.0408-gal/ft.	Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.	

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-4

Project Name: Remedial Investigation: Post-IRM GW Sampling 205237.02
Location: 1600 Penfield Road, Penfield, New York
Sampled By: Craig A. Stiles 4-Mar-08
Weather: Partly Cloudy, ~30°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -Inch
Depth of Well: 9.12 -Feet
Static Water Level: 2.42 -Feet
Single Well Volume: 0.27 -Gallons

PURGE & SAMPLING METHOD

[X] Bailer - Type: PVC - Dedicated
Sampling Device:
[ ] Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1212	~0.10	6.93	8.8	1.011	>1,000	74	Color = Brown
1215	0.43	6.89	9.4	1.162	>1,000	12	LNAPL or DNAPL observed ~~YES~~ / **NO**
1218	0.86	6.88	10.0	1.311	>1,000	-7	Petroleum sheen observed. ~~YES~~ / **NO**
1221	1.29	6.86	10.1	1.335	>1,000	-10	Odor detected. ~~YES~~ / **NO**
1230	Sample	6.84	10.1	1.390	>1,000	-11	

Total 1.29 Gallons Purged Purge Start Time: 1212 Purge End Time: 1221

WELL SAMPLING

Sample I.D. MW-3
No. of Containers: 2
Sample Time: 1230
Sample Preservation: HCl

Sampled For:
[X] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total~~ / Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

Well Volume (1" well) = 0.0408-gal/ft.	Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.	

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-5

Project Name: Remedial Investigation: Post-IRM GW Sampling 205237.02
Location: 1600 Penfield Road, Penfield, New York
Sampled By: Craig A. Stiles 3-Mar-08
Weather: Partly Cloudy, ~60°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -Inch
Depth of Well: 14.70 -Feet
Static Water Level: 7.16 -Feet
Single Well Volume: 0.31 -Gallons

PURGE & SAMPLING METHOD

[X] Bailer - Type: PVC - Dedicated
Sampling Device:
[ ] Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1131	~0.05	7.39	8.0	0.7403	74.3	172	Color = Brown
1134	0.31	7.18	11.0	1.259	206	92	LNAPL or DNAPL observed ~~YES~~ / **NO**
1136	0.62	7.14	11.2	1.824	>1,000	76	Petroleum sheen observed. ~~YES~~ / **NO**
1138	0.93	7.01	11.4	1.875	>1,000	83	Odor detected. ~~YES~~ / **NO**
1145	Sample	7.05	11.5	1.910	>1,000	84	

Total 0.93 Gallons Purged Purge Start Time: 1131 Purge End Time: 1138

WELL SAMPLING

Sample I.D. MW-5
No. of Containers: 2
Sample Time: 1145
Sample Preservation: HCl

Sampled For:
[X] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total /~~Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

Well Volume (1" well) = 0.0408-gal/ft.	Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.	

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-8

Project Name: Remedial Investigation: Post-IRM GW Sampling 205237.02
Location: 1600 Penfield Road, Penfield, New York
Sampled By: Craig A. Stiles 3-Mar-08
Weather: Partly Cloudy, ~60°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -Inch
Depth of Well: 14.70 -Feet
Static Water Level: 9.97 -Feet
Single Well Volume: 0.19 -Gallons

PURGE & SAMPLING METHOD

[X] Bailer - Type: PVC - Dedicated
Sampling Device:
[ ] Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1037	~0.05	7.68	7.9	0.3582	>1,000	237	Color = Brown
1039	0.20	7.91	9.1	0.6585	>1,000	236	LNAPL or DNAPL observed ~~YES~~ / NO
1041	0.40	7.12	9.7	0.8440	>1,000	229	Petroleum sheen observed. ~~YES~~ / NO
1045	0.60	7.11	9.7	0.8993	>1,000	221	Odor detected. ~~YES~~ / NO
1055	Sample	7.10	9.0	0.9241	>1,000	208	

Total 0.60 Gallons Purged Purge Start Time: 1037 Purge End Time: 1045

WELL SAMPLING

Sample I.D. MW-8
No. of Containers: 2
Sample Time: 1055
Sample Preservation: HCl

Sampled For:
[X] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total~~/Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

Blind Duplicate sample (designated "BLIND") was collected from this well simultaneously with the MW-8 sample.

Well Volume (1" well) = 0.0408-gal/ft.
Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-9

Project Name: Remedial Investigation: Post-IRM GW Sampling 205237.02
Location: 1600 Penfield Road, Penfield, New York
Sampled By: Craig A. Stiles 3-Mar-08
Weather: Partly Cloudy, ~60°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -Inch
Depth of Well: 14.55 -Feet
Static Water Level: 9.02 -Feet
Single Well Volume: 0.23 -Gallons

PURGE & SAMPLING METHOD

[X] Bailer - Type: PVC - Dedicated
Sampling Device:
[ ] Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	Comments
0927	~0.05	6.48	11.3	3.186	>1,000	141	Color = Brown
0930	0.27	6.68	10.8	3.194	>1,000	67	LNAPL or DNAPL observed ~~YES~~ / **NO**
0933	0.54	6.77	11.1	3.042	>1,000	15	Petroleum sheen observed. ~~YES~~ / **NO**
0937	0.81	6.83	11.2	2.948	>1,000	3	Odor detected. **YES** / ~~NO~~
0945	Sample	7.03	10.4	2.692	>1,000	0	*Slight to Moderate Perc Odor*

Total 0.81 Gallons Purged Purge Start Time: 0927 Purge End Time: 0937

WELL SAMPLING

Sample I.D. MW-9
No. of Containers: 2
Sample Time: 0945
Sample Preservation: HCl

Sampled For:
[X] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total~~ /-Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

Samples for matrix spike (MS) and matrix spike duplicate (MSD) samples were collected from this well simultaneously the MW-9 sample.

Well Volume (1" well) = 0.0408-gal/ft.	Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.	

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GROUNDWATER SAMPLING FORM

WELL I.D. MW-10

Project Name: Remedial Investigation: Post-IRM GW Sampling 205237.02
Location: 1600 Penfield Road, Penfield, New York
Sampled By: Craig A. Stiles 3-Mar-08
Weather: Partly Cloudy, ~60°F

PURGE VOLUME CALCULATION

Well Diameter: 1.0 -Inch
Depth of Well: 14.57 -Feet
Static Water Level: 8.93 -Feet
Single Well Volume: 0.23 -Gallons

PURGE & SAMPLING METHOD

[X] Bailer - Type: PVC - Dedicated
Sampling Device:
[ ] Pump - Type
Pump Rate:

FIELD PARAMETER MEASUREMENTS

Time	Gallons Purged	pH	Temp (oC)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1004	~0.05	7.23	8.5	1.243	>1,000	245	Color = Brown
1006	0.25	7.18	8.9	1.230	>1,000	232	LNAPL or DNAPL observed ~~YES~~ / **NO**
1009	0.50	7.15	10.4	1.216	>1,000	221	Petroleum sheen observed. ~~YES~~ / **NO**
1011	0.75	7.14	10.8	1.222	>1,000	221	Odor detected. **YES** / ~~NO~~
1020	Sample	7.16	10.9	1.245	>1,000	222	*Very Slight Perc Odor*

Total 0.75 Gallons Purged Purge Start Time: 1004 Purge End Time: 1011

WELL SAMPLING

Sample I.D. MW-10
No. of Containers: 2
Sample Preservation: HCl
Sample Time: 1020

Sampled For:
[X] VOCs - 8260B TCL + STARS
[ ] SVOCs - 8270C STARS
[ ] STARS VOCs Only - Method 8260B
[ ] ~~Total~~ / Dissolved TAL Metals
[ ] Pesticides
[ ] PCBs

OBSERVATIONS:

Well Volume (1" well) = 0.0408-gal/ft.	Well Volume (4" well) = 0.65-gal/ft.
Well Volume (2" well) = 0.163-gal/ft.	

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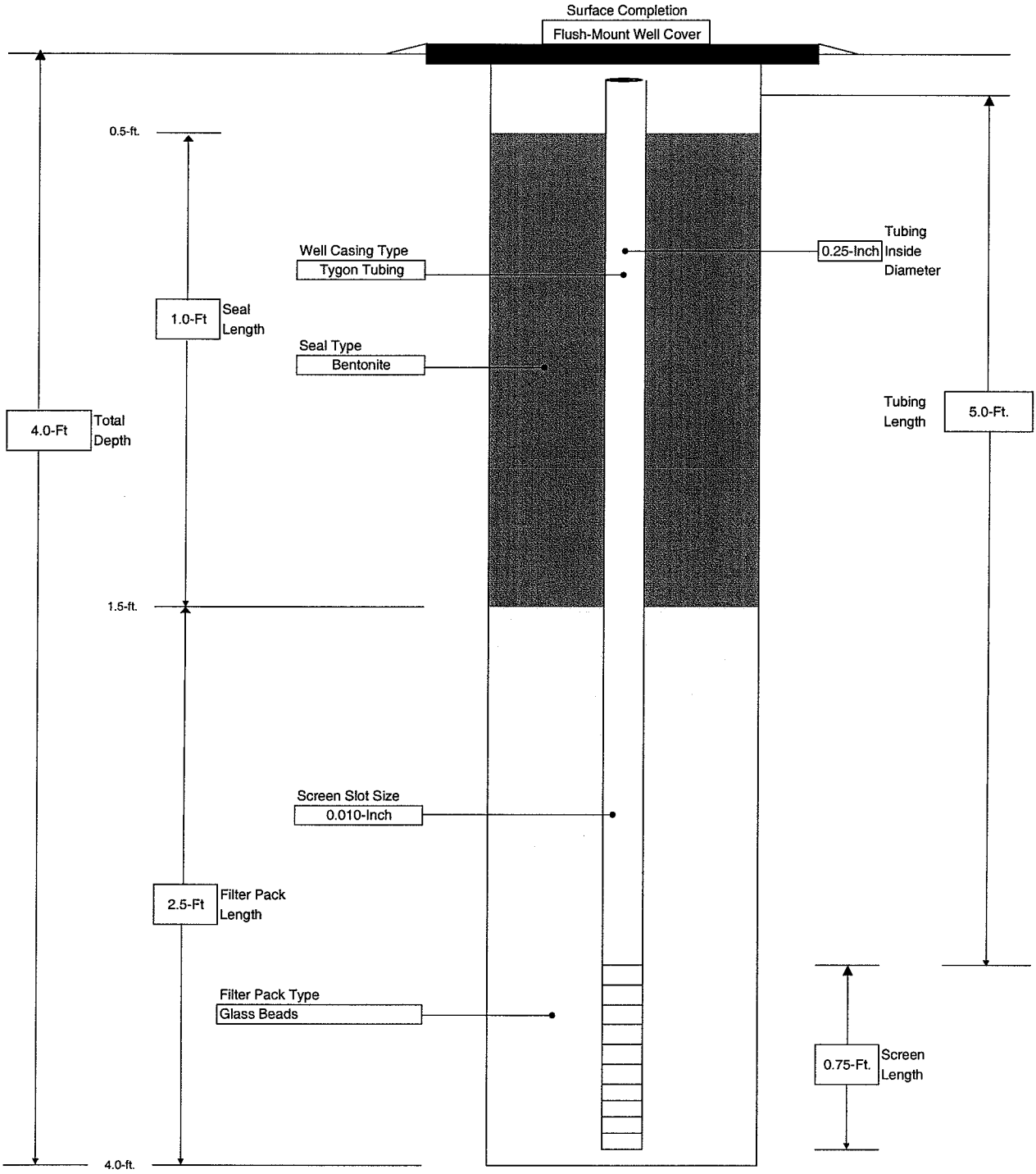
LaBella Associates, P.C.
300 State Street
Rochester, New York 14614

Appendix 5
Soil Gas Sampling
Probe Construction Diagrams

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment Supplemental Site Characterization 1600 Penfield Road, Penfield, New York	WELL ID **SG-15** SHEET 1 OF 1 JOB # 205237.01 CHKD. BY:

CONTRACTOR: TREC Environmental Services, Inc.		BORING LOCATION	
DRILLER Jim Agar		GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE: C.A. Stiles		START DATE 30-Mar-06	END DATE 30-Mar-06
TYPE OF DRILL RIG: Track Mounted Geoprobe Model 5400-LT		WATER LEVEL DATA	
AUGER SIZE AND TYPE N/A		DATE / TIME / WATER / CASING / REMARKS	
OVERBURDEN SAMPLING METHOD Direct Push			
ROCK DRILLING METHOD N/A			



NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

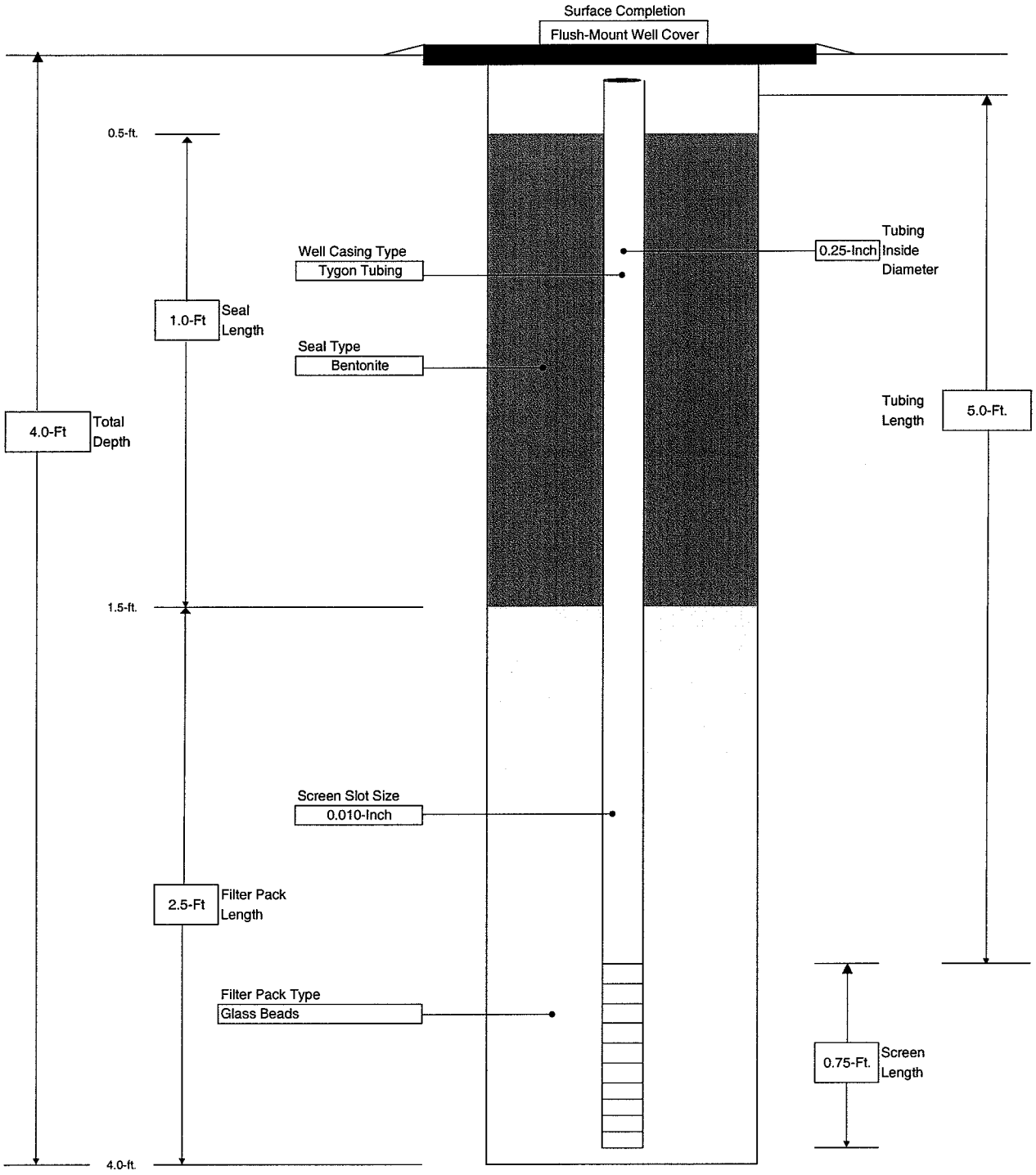
GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Phase II Environmental Site Assessment Supplemental Site Characterization 1600 Penfield Road, Penfield, New York	WELL ID **SG-16** SHEET 1 OF 1 JOB # 205237.01 CHKD. BY:

CONTRACTOR:	TREC Environmental Services, Inc.	BORING LOCATION	
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE:	C.A. Stiles	START DATE 30-Mar-06	END DATE 30-Mar-06

		WATER LEVEL DATA				
TYPE OF DRILL RIG:	Track Mounted Geoprobe Model 5400-LT	DATE	TIME	WATER	CASIN	REMARKS
AUGER SIZE AND TYPE	N/A					
OVERBURDEN SAMPLING METHOD	Direct Push					
ROCK DRILLING METHOD	N/A					



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LABELLA Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Phase II Environmental Site Assessment
Supplemental Site Characterization
1600 Penfield Road, Penfield, New York

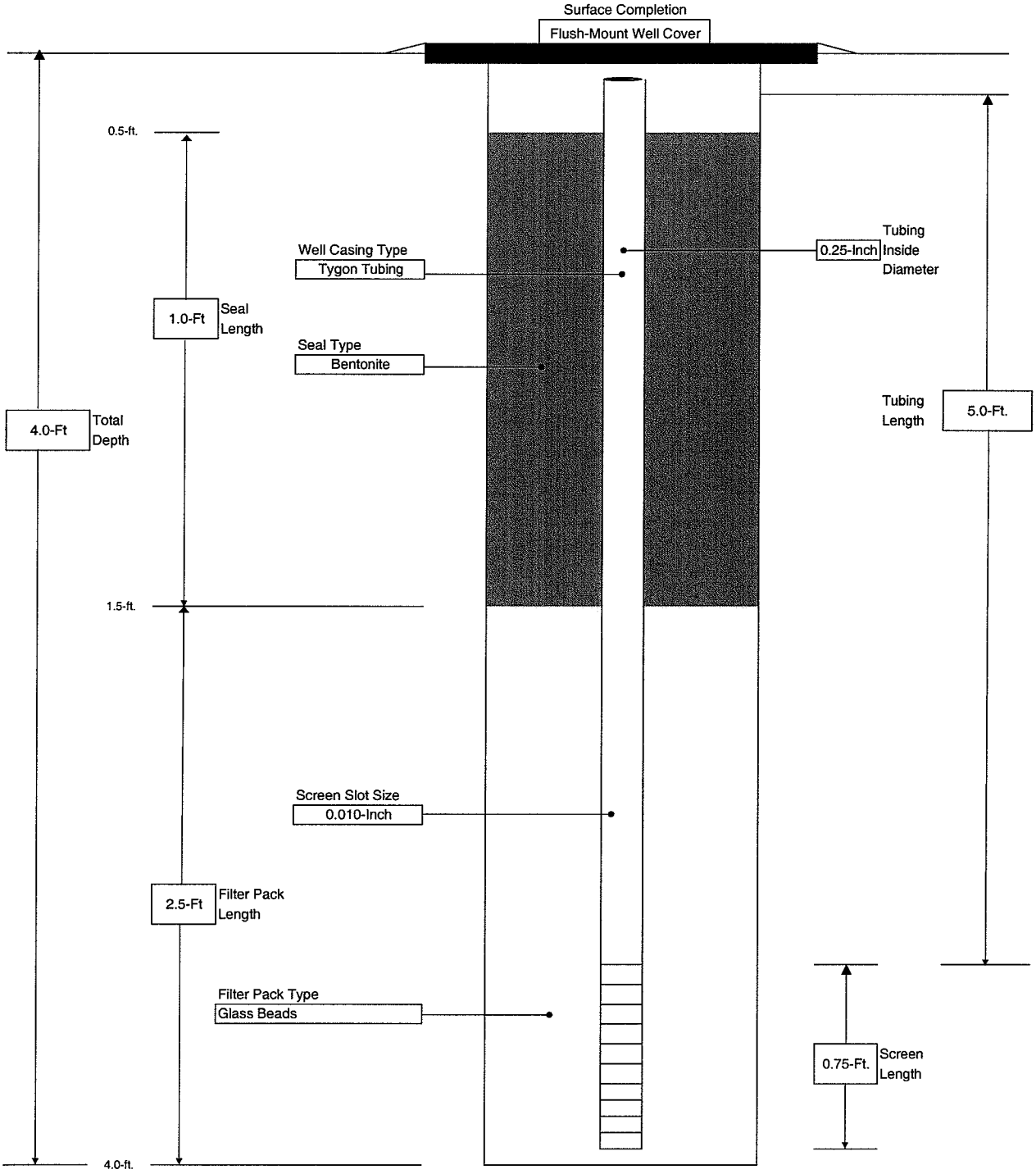
WELL ID **SG-17**
SHEET 1 OF 1
JOB # 205237.01
CHKD. BY:

CONTRACTOR: TREC Environmental Services, Inc.
DRILLER Jim Agar
LABELLA REPRESENTATIVE: C.A. Stiles

BORING LOCATION
GROUND SURFACE ELEVATION DATUM
START DATE 30-Mar-06 END DATE 30-Mar-06

TYPE OF DRILL RIG: Track Mounted Geoprobe Model 5400-LT
AUGER SIZE AND TYPE N/A
OVERBURDEN SAMPLING METHOD Direct Push
ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS



NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

GENERAL NOTES:
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300 State Street
Rochester, New York 14614

Appendix 6
Soil Gas Sampling Log

Carriage Cleantown
1600 Penfield Road
Penfield, New York

Soil Gas Survey Field Readings
25-May-06

Time	SG-15		SG-16		SG-17	
	Vacuum Reading[1]	Butane Tracer Gas Reading	Vacuum Reading	Butane Tracer Gas Reading	Vacuum Reading	Butane Tracer Gas Reading
Prepurge Soil Gas	0.0 ppm & 0.0 LEL		0.0 ppm & 0.0 LEL		0.0 ppm & 0.0 LEL	
Post Purge Tracer Gas	----	109 ppm	----	49.5	----	45.9
Post-Purge Soil Gas	0.0 ppm & 0.0 LEL		0.6 ppm & 0.0 LEL		0.2 ppm & 0.0 LEL	
0855	29.50	45.9	----	----	----	----
0910	29.00	48.6	----	----	----	----
0925	28.50	47.2	----	----	----	----
0940	28.00	46.1	28.50	38.2	----	----
0955	27.50	45.3	28.25	48.7	29.25	45.9
1010	26.50	47.4	28.00	49.5	29.25	45.8
1025	26.00	42.5	27.00	38.2	29	39.7
1040	25.00	44.0	25.75	36.8	29	39.1
1055	24.25	47.4	25.25	35.9	28.75	40.5
1110	24.00	48.2	24.50	39.0	28.75	42.7
1125	23.75	42.9	23.50	38.3	28.75	44
1140	23.00	43.0	23.50	36.9	**Test Suspended[3]**	
1155	22.00	40.9	23.00	38.1	----	----
1210	21.00	41.6	22.75	36.3	----	----
1225	20.00	39.7	22.75	37.4	----	----
1240	19.75	42.9	22.75	39.7	----	----
1255	19.00	39.1	22.75	34.9	----	----
1310	18.25	37.2	22.75	37.0	----	----
1325	17.75	37.5	22.75	41.3	----	----
1340	17.00	40.6	22.50	45.7	----	----
1355	16.50	41.0	22.00	39.7	----	----
1410	16.00	44.8	21.50	38.9	----	----
1425	15.00	39.2	20.50	36.2	----	----
1440	14.25	41.4	19.75	39.7	----	----
1442	----	----	----	----	28.75	38.5
1455	13.00	41.3	18.75	39.1	28.00	37.9
1510	**End of Test @ 1455**		18.00	37.4	27.00	41.2
1525	**(6 Hours Total)**		17.50	40.7	26.00	43.1
1540	----	----	17.00	37.3	25.25	41.6
1555	----	----	16.00	36.9	24.50	44.7
1610	----	----	15.50	37.7	23.75	43.6
1625	----	----	14.50	36.1	22.75	41.6
1640	----	----	13.50	45.8	22.00	45.1
1655	----	----	12.75	42.0	21.25	43.8
1710	----	----	12.50	41.7	20.50	41.1
1725	----	----	**End of Test @ 1710**		19.50	39.0
1740	----	----	(7.5 Hours minus 1.5 Hours		18.75	37.4
1755	----	----	for which No Vacuum Drop		18.00	36.8
1810	----	----	Recorded)		17.75	36.3
1825	----	----	----	----	16.25	33.2
1840	----	----	----	----	15.25	29.4
1842	----	----	----	----	15.00	31.3
-----	----	----	----	----	**End of Test @ 1842**	
-----	----	----	----	----	**(4 Hours Total)**	

(1) Vacuum readings recorded in inches of mercury.
(2) Tracer gas (butane) readings measured with a MIniRae 2000 photoionization Detector within the sampling system.
(3) First attempted test at SG-17 suspended to to lack of a drop in vacuum levels. Test rerun with fresh Summa canister.

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
PH: (585) 454-6110 FAX: (585) 454-3066

Soil Gas Sampling Form

Soil Gas ID: SG-15

Project Name: Former Carriage Cleaners
Project No.: 205237.01
Location: 1600 Penfield Rd. Penfield, NY
Sampled By: Craig A. Stiles
Date: May 25, 2006
Weather: mostly cloudy, 67-77 degrees F
Time: 1500

Probe Diameter: 0.3 -Inch
Depth of Probe: 4.00 -Feet

[X] Summa Canister: 6-Liter

Purge Volume 25.5L

Volume of Soil Vapor Extracted: 5.76L

Vacuum before sample collection: 29.5"Hg

Vacuum after sample collection: 13"Hg

Moisture Content: Not Collected

Sampled For: T0-15

OBSERVATIONS:

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
PH: (585) 454-6110 FAX: (585) 454-3066

Soil Gas Sampling Form

Soil Gas ID: SG-16

Project Name: Former Carriage Cleaners
Project No.: 205237.01
Location: 1600 Penfield Rd. Penfield, NY
Sampled By: Craig A. Stiles
Date: May 25, 2006
Weather:
Time: 1710

Probe Diameter: 0.3 -Inch
Depth of Probe: 4.00 -Feet

[X] Summa Canister: 6-Liter

Purge Volume 34L

Volume of Soil Vapor Extracted: 5.76L

Vacuum before sample collection: 28.5"Hg

Vacuum after sample collection: 12.5"Hg

Moisture Content: Not Collected

Sampled For: T0-15

OBSERVATIONS:

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
PH: (585) 454-6110 FAX: (585) 454-3066

Soil Gas Sampling Form

Soil Gas ID: SG-17

Project Name: Former Carriage Cleaners
Project No.: 205237.01
Location: 1600 Penfield Rd. Penfield, NY
Sampled By: Craig A. Stiles
Date: May 25, 2006
Weather: mostly cloudy, 67-77 degrees, calm
Time: 1840

Probe Diameter: 0.3 -Inch
Depth of Probe: 4.00 -Feet

[X] Summa Canister: 6-Liter

Purge Volume 18.7L

Volume of Soil Vapor Extracted: 3.84L

Vacuum before sample collection: 29.25"Hg

Vacuum after sample collection: 15"Hg

Moisture Content: Not Collected

Sampled For: T0-15

OBSERVATIONS:

Remedial Investigation
Carriage Cleaners
1600 Penfield Road
Penfield, New York

Shallow Groundwater Elevations

Well ID	TOC Elevation	11/2/2005		4/28/2006		3/3/2008	
		Depth to GW	GW Elevation	Depth to GW	GW Elevation	Depth to GW	GW Elevation
MW-2	96.72	7.14	89.58	6.97	89.75	6.95	89.77
MW-3	93.67	4.07	89.6	3.9	89.77	3.22	90.45
MW-4	94.36	4.6	89.76	3.95	90.41	2.42	91.94
MW-5	96.93	7.2	89.73	7.06	89.87	7.16	89.77
MW-7	96.71	NC	--	6.95	89.76	Not Available	
MW-8	99.71	NC	--	9.79	89.92	9.97	89.74
MW-9	98.86	NC	--	8.94	89.92	9.02	89.84
MW-10	98.28	NC	--	9.28	89	8.93	89.35

NC = Not Collected since these wells were not installed at this time.

Remedial Investigation
Carriage Cleaners
1600 Penfield Road
Penfield, New York

Shallow Groundwater Elevations

Well ID	TOC Elevation	11/2/2005		4/28/2006		3/3/2008	
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Remedial Investigation
Carriage Cleaners
1600 Penfield Road
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Remedial Investigation
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Rochester, New York 14614

Appendix 7
Shallow Groundwater Elevations

Remedial Investigation
Carriage Cleaners
1600 Penfield Road
Penfield, New York

Shallow Groundwater Elevations

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		Depth to GW	GW Elevation	Depth to GW	GW Elevation	Depth to GW	GW Elevation
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