BROWNFIELD CLEANUP PROGRAM

REMEDIAL INVESTIGATION REPORT

ECL Article 27/Title 14

SPEEDY'S CLEANERS
3130 Monroe Avenue
Town of Pittsford
Rochester, New York 14618

NYSDEC Site # C828109

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1 INTRODUCTION

This Remedial Investigation Report describes activities carried out during the investigation of the Speedy's Cleaners facility at 3130 Monroe Avenue in the Town of Pittsford, New York (the Site) pursuant to the Brownfield Cleanup Program Agreement between the New York State Department of Environmental Conservation (NYSDEC) and 3130 Monroe Avenue Associates, LLC.

1.1 Site Location and Description

The Speedy's Cleaners site is located at 3130 Monroe Avenue in the Town of Pittsford, New York (Figure 1). It is an approximately 0.27-acre parcel improved with one building: the west side of the building was operated as Speedy's Cleaners dating back to the 1950s. Speedy's Cleaners operated a dry cleaning operation, and subsequently a drop-off/pick-up location.

The adjacent property at the north side of the Site is the Rochester Gas & Electric (RG&E) right-of-way; the Oak Hill Country Club golf course is north of the RG&E parcel. There are commercial properties to the east and west of the site, and Monroe Avenue and Wegman's Food Market and parking lot are to the south.

The historic Speedy's Cleaners lease space on the west side of the building is currently occupied by Star Classic Nails, Inc. (Star Nails). The east side is currently occupied by Optometrix (dba Pittsford Optical).

1.1.1 Site Geology and Hydrogeology

Soils encountered in borings are fine to medium to course sands over a clay till layer at approximately 12 to 14 feet beneath ground surface (BGS).

Harding Lawson Associates (Harding Lawson) investigated the Speedy's site in March 2003 and determined that the groundwater flow direction is towards the Oak Hill Country Club to the northeast; this northeasterly flow direction was confirmed during this BCP RI (Figure 6). Harding Lawson's Final Preliminary Site Assessment Report is included in Appendix 1.

1.2 Previous Investigations

1.2.1 Passero Associates 1999

In February 1999, Passero Associates conducted a Phase I Environmental Site Assessment (ESA) of the subject property. In our ESA we indicated two potential recognized environmental conditions regarding:

1. an out-of-service underground fuel oil tank at the southwest corner of the building, and

2. potential site contamination with the dry-cleaning solvent tetrachloroethylene (a/k/a perchloroethylene, or PCE).

In March 1999, Passero Associates supervised the removal of one 1000-gallon underground storage tank (UST) that had historically been used to store #2 fuel oil to heat the building. During the UST removal, petroleum-contaminated soil was encountered, and free product (fuel oil) was found seeping into the excavation; the NYSDEC assigned spill number 9870611.

In March and May 1999, 14 soil borings were completed to determine the extent of contamination from the fuel oil spill, as well as potential chlorinated solvent contamination. The highest concentrations of chlorinated solvents were detected at a depth of 3-4 feet in soil samples collected from Bore Hole #1 (BH-1), located in the RG&E right-of-way near the northern corner of the building. Chlorinated solvents detected in BH-1 are summarized below:

PCE was detected at a concentration of 748,000 µg/Kg (748 parts per million). The NYSDEC Part 375, Table 375.6.8(b) Soil Cleanup Objective for Restricted Commercial Use for PCE is 150 ppm. The NYSDEC Part 375, Table 375.6.8(b) Soil Cleanup Objective for Protection of Groundwater for PCE is 1.3 ppm.

Trichloroethene (TCE) was detected at a concentration of 5.4 ppm. The NYSDEC Part 375, Table 375.6.8(b) Soil Cleanup Objective for Restricted Commercial Use for TCE is 200 ppm.
The NYSDEC Part 375, Table 375.6.8(b) Soil Cleanup Objective for Protection of Groundwater for TCE is 0.47 ppm.

To remediate petroleum-contaminated soil, Passero excavated soil on the southwest side of the building in the vicinity of the former UST. Four injection wells were installed in October and November 1999 as part of a bioremediation program. Passero injected a 55-gallon drum of bacterial solution supplied Lambda Bioremediation into the injection wells for in-situ bioremediation of the remaining petroleum contaminated soil and groundwater.

1.2.2 Confirmatory Soil Samples

The results of the confirmatory soil samples are in the Table below.

Table: 1 - Tank Pit Confirmatory Soil Samples – October 1999

Sample ID Sampling Date units	Pit Bottom 10/99 ppm	North Composite 10/99 ppm	South Composite 10/99 ppm	East Composite 10/99 ppm	West Composite 10/99 ppm	Part 375-6.8(a): Unrestricted Use SCO ppm	* Part 375-6.8(b) Restricted Use SCO and CP-51 Soil Cleanup Guidance ppm
Ethybenzene	0.232	ND	ND	0.378	ND	1	1
m,p-Xylene	**0.379**	ND	ND	0.104	ND	0.26	1.6
o-Xylene	0.0630	ND	ND	ND	ND	0.26	1.6
Isopropylbenzene	0.163	0.0725	0.0263	0.361	ND	NS	2.3
n-Proylbenzene	0.266	0.137	0.057	0.696	ND	3.9	3.9
1,2,4,-Trimethylbenzene	2.470	1.180	0.158	3.160	0.0434	3.6	3.6
1,3,5-Trimethylbenzene	0.496	0.196	0.159	0.859	ND	8.4	8.4
sec-Butylbenzene	0.382	0.203	0.143	0.578	ND	NS	11
p-Isopropyltoluene	0.140	0.193	0.275	0.630	ND	NS	10.0
Naphthalene	1.140	0.715	ND	1.290	0.209	12	12
tert-Butylbenzene	ND	0.126	0.0267	0.339	ND	5.9	5.9

* For analytes that are present in Site soil, the quantity is compared to the lower of the Restricted Use SCOs for Protection of Public Health for Commercial use or the Protection of Groundwater. For analytes that are not present in the Site soil, the quantity is compared to the Restricted Use SCOs for Protection of Public Health for Commercial use.

SCO: Soil Cleanup Objective

ND: Non Detect

NS: No Standard

Bold: Quantity exceeds Unrestricted SCO

Bold: Quantity exceeds Restricted SCO

On October 21, 2001, Passero collected groundwater samples for volatile organic compound (VOC) analysis and semi volatile organic compound (SVOC) analysis by USEPA methods 8260 and 8270 from three on-site wells northwest of the former UST location. Cis-1,2-dichloroethene (DCE) (7 µg/L), vinyl chloride (6 µg/L) and benzene (2 µg/L) were the only compounds detected in the samples from the three wells at concentrations greater than the NYS Class GA groundwater standards.

On February 15, 2002 the NYSDEC Spills Department closed Spill # 9870611 with no further action required regarding the petroleum contamination, and referred the chlorinated solvent contamination to the Hazardous Waste Remediation Program.

1.2.2 Harding Lawson Associates 2003

Harding Lawson Associates investigated the Speedy's site and the adjacent RG&E right-of-way to determine whether chlorinated solvent contamination had originated from the Site and migrated off site in groundwater, and to collect sufficient information to allow for NYSDEC re-classification of the site. Harding Lawson's Final Preliminary Site Assessment Report is included in Appendix 1.

Harding Lawson determined the following:

1. Evidence of hazardous waste use and disposal at the Site was documented.

2. PCE was detected in soil 5 feet northeast of the Speedy's Cleaners back door, and 3 feet BGS, at a concentration of 110 ppm.

3. Based on analyses of soil samples collected, PCE contamination in soil is concentrated around the northern corner of the Site building.

4. Chlorinated solvents were detected in groundwater samples collected from the Site at concentrations exceeding the NYS Class GA groundwater standards.

5. Fuel-related VOCs (toluene, ethylbenzene, m,p-xylene, and o-xylene) were detected in groundwater samples at concentrations up to 250 micrograms per liter (µg/L) (equivalent to parts per billion); the NYS Class GA groundwater standard for each of the fuel-related VOCs is 5 µg/L.

6. The groundwater flow direction is to the northeast, toward the Oak Hill Country Club.

The majority of the contamination detected by Harding Lawson was in the RG&E right-of-way, north of the subject site of this Brownfield Cleanup Program (BCP). The only chlorinated compounds detected by Harding Lawson on the subject of this BCP were 28 µg/L of PCE, and associated breakdown products in groundwater by Speedy's back door at the subject site border with the RG&E right-of-way (Appendix 1, Figure 4.1).

As a result of this investigation, the Site together with the adjacent RG&E right-of-way were listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York as a Class 2 Site. The Class 2 designation means there is a significant threat to the public health or environment and action is required.

1.3 Interim Remedial Measure

1.3.1 Active Sub-Slab Depressurization (ASD)

Based on the results of the soil vapor intrusion testing discussed in Section 2.1.1, an Active Sub-Slab Depressurization (ASD) system was installed in accordance with a January 25, 2006 IRM Work Plan and January 31, 2006 supplemental letter, as modified and approved by a NYSDEC letter dated February 24, 2006. Details of the ASD, including the work plan documents and an as-built drawing, are provided in Appendix 5.

The former Speedy's Cleaners lease space was vacated in late 2005, and renovated for use as Star Nails in early 2006. During renovations of this portion of the building, trenches were cut in the floor slab to install a new plumbing system. These trenches were utilized by the mitigation contractor to help facilitate sub-slab vapor movement. Two-inch diameter slotted PVC piping was installed in the trenches, which were backfilled with permeable gravel prior to re-installation of the slab. The purpose of these pipes is to draw

vapors from beneath the building for discharge outside the building. Additional vertical vacuum points were installed in both sides of the building. Pressure differentials were measuredwith a digital monometer beneath the floor slab and in system piping and ducting to assure that the system was operating as designed. The ASD system was fully operational in May 2006.

Several modifications were made to the system since its initial installation. The confirmatory indoor air samples (see Section in Section 2.1.2) following initial system operation, indicated elevated levels of PCE and TCE. This may have been related to the ventilation system used by Star Nails. Up to 25 ventilating hoods are utilized by Star Nails to ventilate acetone to the exterior of the building; no source of makeup air is provided. The operation of these ventilating hoods may have created negative pressure in the building that could counteract the ASD, and draw PCE vapors into the building. The air flow of the ASD was increased in an attempt to further minimize the potential for vapor intrusion.

Additional vacuum points were subsequently added in March 2008 to increase the ASD efficiency. Adjustments to valves on the system piping have been made at various times to optimize system performance. A higher power fan was also installed in March 2008 to increase the vacuum pressure. In March 2009, the fan was repaired and a 3-inch diameter pipe was installed to increase the sub-slab air flow.

1.4 Remedial Investigation Objectives

The purpose of the Remedial Investigation (RI) was to further define the nature and extent of the chlorinated solvents and other contaminants on site, and determine if any off-site environmental impacts were present resulting from historic operations at the site. The results of the RI will be used to evaluate remedial actions that might be required to render the site suitable for continued use as a commercial facility. Specifically, the investigation was intended to:

1. identify the presence of any chlorinated solvents, Stoddard solvents, or petroleum products in on-site soils and/or groundwater;

2. evaluate on-site soil, groundwater quality, and indoor air; and

3. conduct an on- and off-site qualitative exposure assessment, including a human health exposure assessment and a fish & wildlife exposure assessment.

2 SCOPE OF WORK

This section outlines the activities that were performed during the RI in accordance with DER 10, *Technical Guidance for Site Investigations and Remediation* and the Draft Brownfield Cleanup Program Guide.
The RI was performed in accordance with the March 2005 RI Work Plan as modified and approved by the NYSDEC letter dated May 23, 2005.

2.1 Air Sampling

2.1.1 Soil Vapor Intrusion Samples

On September 16, 2005 four Soil Vapor Intrusion (SVI) air samples were collected by Summa canisters for VOC analysis (Figure 2).

- One sub-slab air sample;
- Two indoor air samples (1 & 2); and
- One outdoor background air sample.

The sampling was conducted in accordance with the NYSDOH Indoor Air Sampling & Analysis Guidance (February 1, 2005).

Sub Slab Soil Vapor Sample

On September 8, 2005 a hole was drilled through the slab with a hand held electric hammer drill with a ¾ inch carbide tip bit and plugged with a rubber stopper. Samples were collected from Teflon tubing placed through the rubber stopper into the sub-slab soil; the tubing was inserted until refusal, and then pulled back approximately ½ inch to allow for vapors to flow into the tubing. The tubing was capped prior to sample collection. The hole through the slab was sealed around the tubing with plumbers putty after tube insertion to ensure that the sub-slab sample was not drawing air from above the slab. The NYSDOH Indoor Air Quality Questionnaire & Building Inventory is included in Appendix 3.

The sub-slab samples were collected a minimum of 24 hours after the tubing was installed to allow the sub-slab gas to equilibrate. One to three volumes (i.e., the volume of the sample probe and tube) were purged prior to collecting the samples to ensure that representative samples were collected. The samples were collected in 1-liter Summa Canisters for 2

hours with a flow rate not exceeding 0.2 liter per minute. Care was taken during all aspects of sample collection to ensure that high quality data was obtained. The laboratory used only certified clean sample collection devices. The sampling team avoided actions which caused sample interference such as pumping gas prior to testing or using permanent marking pens in the field. Once samples were collected, they were stored according to the method protocol and delivered to the analytical laboratory as soon as possible.

The analytical method for VOCs in the air samples was Environmental Protection Agency (EPA) Method TO-15, capable of detecting target compounds with limits of 1 ug/m^3. Samples did not exceed recommended holding times prior to being processed by the laboratory. Laboratory procedures for sample accession and chain of custody were followed.

Indoor and Outdoor Air Samples

The samples were collected in 1-liter Summa Canisters for 2 hours with a flow rate not exceeding 0.2 liter per minute. Care was taken during all aspects of sample collection to ensure that high quality data was obtained. The laboratory used only certified clean sample collection devices. The sampling team avoided actions which caused sample interference such as pumping gas prior to testing or using permanent marking pens in the field. Once samples were collected, they were stored according to the method protocol and delivered to the analytical laboratory as soon as possible.

The analytical method for VOCs in the air samples was Environmental Protection Agency (EPA) Method TO-15, capable of detecting target compounds with limits of 1 ug/m^3. Samples did not exceed recommended holding times prior to being processed by the laboratory. Laboratory procedures for sample accession and chain of custody were followed.

When the indoor air samples were collected, racks of freshly dry cleaned clothes were in close proximity to the Summa Canisters. However, no VOCs were measured with the PID when placed near the clothes. Stoddard solvent was the dry cleaning solvent utilized in the dry cleaning process at the time of sample collection. The racks of clothes do not appear to have adversely affected the interior air data.

After Speedy's Cleaners moved out and vacated their lease space, an approximately 1-inch diameter hole was discovered in the slab that had previously been covered by the clothes racks. This hole had the potential to provide a preferential pathway for vapor migration into the building.

As indicated on the following pages, the air data from 2005 for both TCE and PCE, when compared to the NYSDOH Soil Vapor/Indoor Air Matrices 1 and 2 indicated that mitigation was warranted. The ASD was subsequently installed as discussed in Section 1.3.1.

PCE was detected in the sub-slab soil vapor sample at a concentration of 18,000 ug/m^3 in September 2005; the NYSDOH Soil Vapor/Indoor Air Matrix 2 indicates that mitigation is required if sub-slab values for PCE are > 1000 ug/m^3.

TCE was detected in the sub-slab soil vapor sample at a concentration of 860 ug/m^3 in September 2005; the NYSDOH Soil Vapor/Indoor Air Matrix 2 indicates that mitigation is required if sub-slab values for TCE are > 250 ug/m^3.

Table:2 - Soil Vapor/Indoor Air Matrix 1 For Trichloroethene and Vinyl Chloride - October 2006

	INDOOR AIR CONCENTRATION OF COMPOUND (µg /m^3)			
SUB-SLAB VAPOR CONCENTRATION OF COMPOUND (µg /m^3)	<0.25	0.25 to <1	1 to <5.0	5.0 and above
<5	1. No further action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to <50	5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to <250	9. MONITOR	10. MONITOR/MITIGATE	11. MITIGATE	12. MITIGATE
250 and above	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

	Table:3 - Soil Vapor/Indoor Air Matrix 2 For Tetrachloroethylene and Cis-1,2-Dichloroethene - October 2006			
	INDOOR AIR CONCENTRATION OF COMPOUND (mcg/m^3)			
SUB-SLAB VAPOR CONCENTRATION OF COMPOUND (mcg/m^3)	<3	3 to <30	30 to <100	100 and above
<100	1. No further action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000	5. MONITOR	6. MONITOR/ MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

2.1.2 Confirmatory Indoor Air Samples

Following installation of the ASDS, the indoor air in the east and west tenant spaces has been tested via summa canister approximately every six to twelve months.

The contaminants of concern (COCs) for indoor air are PCE and TCE. The air sample results for PCE and TCE are tabulated on the following pages.

TABLE 4: PCE and TCE in Indoor Air **Star Classic Nails**		
Date	**PCE Concentration ($\mu g/m^3$)**	**TCE Concentration ($\mu g/m^3$)**
09/16/05*	**1100**	**17.5**
08/17/06	88	ND
11/28/06	**241**	4.20
04/05/07	**465**	**7.39**
11/20/07	**390**	**7.3**
04/14/08	**105**	ND
11/26/08	**174**	**5.09**
04/09/09	94.6	1.66
03/24/10	80.5	ND
05/04/11	34.3	0.702
Bold: Quantity exceeds NYS air guideline value of 100 $\mu g/m^3$ for PCE and 5 ug/m^3 for TCE.		
ND: Non detect		
*collected prior to ASD system installation		

TABLE 5: PCE and TCE in Indoor Air Pittsford Optical		
Date	**PCE Concentration ($\mu g/m^3$)**	**TCE Concentration ($\mu g/m^3$)**
08/17/05	**190**	4.48
11/28/06	59.7	0.590
04/05/07	**103**	1.75
11/20/07	99.06	2.0
04/14/08	41.2	ND
04/14/08	36.8	0.904
11/26/08	9.26	0.256
04/09/09	23.5	ND
05/04/11	20.9	ND
05/04/11	20.9	ND
Bold: Quantity exceeds NYS air guideline value of 100 $\mu g/m^3$ for PCE and 5 ug/m^3 for TCE.		
ND: Non detect		

Indoor Air Investigation Conclusion

The ASDS has operated since May 2006. Modifications were made to the system in May 2007, March 2008 and March 2009 to increase the effectiveness of the ASD system.

Indoor air samples in the Star Classic Nails (western lease space) have been in conformance with the NYSDOH Air Guideline Values of 5.0 $\mu g/m^3$ for TCE and 100 $\mu g/m^3$ for PCE since March 2010.

Indoor air samples in the Pittsford Optical (eastern lease space) have been in conformance with the NYSDOH Air Guideline Values of 5.0 $\mu g/m^3$ for TCE and 100 $\mu g/m^3$ for PCE since April 2008.

The NYSDOH Guidance for Evaluating Soil Vapor Intrusion states that reasonable and practical actions should be taken to reduce exposures when indoor air levels are above background, even when they are below the guideline. The urgency to complete these actions increases with indoor levels, particularly when air levels are above the guidelines. Therefore, continued annual indoor sampling of both building spaces is warranted to confirm that indoor air concentrations continue to remain below guidelines.

2.1.3 Boundary Condition Soil Gas Samples

On September 1, 2006, boundary condition soil gas samples were collected to investigate potential off-site vapor migration. This work was performed in accordance with the RI Work Plan Addendum dated June 9, 2006 as modified by the August 7, 2006 response to comments letter.

The Boundary soil gas locations are shown in Figure 3.

The depth to groundwater as measured in the Site monitoring wells on September 9, 2005 was from 7.83-11.31 feet BGS.

Seven sub-surface soil vapor samples were collected beneath the asphalt for VOC analysis along the east, west, and south sides of the Site to address BCP boundary requirements. Three sub-surface samples were collected along the eastern boundary and the western boundary, and one sample was collected along the south boundary (Figure 3).

The sampling was conducted in accordance with the NYSDOH Soil Vapor Intrusion Guidance (February 1, 2005).

Soil vapor probes were installed in the following manner:

a) Samples were installed using direct push technology by Geoprobe;

b) Coarse sand was used to create a sampling zone 1 to 2 feet in length;

c) Implants were fitted with inert tubing (e.g., polyethylene, stainless steel);

d) Soil vapor probes were sealed above the sampling zone with a bentonite slurry for a minimum distance of 3 feet to prevent outdoor

air infiltration and the remainder of the borehole backfilled with clean material (the shallow sample probes installed to depths of 1-2 feet were sealed to grade with bentonite slurry); and

e) For multiple probe depths, the borehole was grouted with bentonite between probes to create discrete sampling zones. This was done in the northeast and northwest site corners, near the contaminated RG&E right-of-way.

Sample collection probes were installed by Geoprobe and plugged with modeling clay. The sub-surface samples were collected a minimum of 24 hours after the holes were drilled to allow the gas beneath the surface to equilibrate. A minimum of one probe volume was evacuated with a syringe prior to sample collection.

The samples were collected in 1-liter Summa Canisters for 2 hours with a flow rate not exceeding 0.2 liter per minute. Care was taken during all aspects of sample collection to ensure that high quality data was obtained. The laboratory used only certified clean sample collection devices. The sampling team avoided actions which cause sample interference such as pumping gas prior to testing, or using permanent marking pens in the field. Once samples were collected, they were stored according to the method protocol and delivered to the analytical laboratory.

The analytical method for VOCs in the air samples was EPA Method TO-15, capable of detecting target compounds with limits of 1 ug/m3.Samples did not exceed recommended holding times prior to being processed by the laboratory.

Laboratory procedures for sample accession and chain of custody were followed.

The sampling depths and the analytical results of the boundary soil gas sampling are tabulated in the following table.

Table: 6 - Boundary Soil Gas Data										
Sample ID	**Shallow-1**	**Deep-1**	**2**	**3**	**4**	**5**	**Shallow-6**	**Deep-6**	**7**	**8**
Sampling Depth	**1'-2'**	**6'-8'**	**4'-6'**	**4'-6'**	**4'-6'**	**1'-2'**	**1'-2'**	**6'-8'**	**6'-8'**	**6'-8'**
Sampling Date	**9/1/2006**	**9/1/2006**	**9/1/2006**	**9/1/2006**	**9/1/2006**	**9/1/2006**	**9/1/2006**	**9/1/2006**	**9/1/2006**	**9/1/2006**
units	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**
1,1-dichloroethene	ND	ND	6.41	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	33	1.9	2.05	4.85	5.7	5.95	5.65	3.7	8.49	3.1
1,3,5-Trimethylbenzene	24.5	0.899	0.8	1.95	2.35	2.65	2.15	1.6	3.85	1.45
2,2,4-Trimethylpentane	1.9	ND	0.712	ND	0.885	2.33	ND	1.71	5.41	0.617
4-ethyltoluene	32.5	0.5	0.6	1.45	1.65	1.75	1.35	1.15	3	0.849
Acetone	243	1260	614	1290	2440	3800	191	379	1070	162
Benzene	4.97	0.552	2.27	10.4	4.16	9.42	1.75	5.03	13	0.942
Bromodichloromethane	ND	ND	ND	2.38	ND	ND	ND	ND	1.63	ND
Carbon disulfide	2.47	ND	2.98	32	19.6	17.1	3.61	22.2	30.7	ND
Chloroethane	0.966	ND	ND	0.268	ND	0.376	ND	ND	ND	ND
Chloroform	90.3	ND	2.48	157	9.08	17.9	17.4	19.4	53.1	ND
Chloromethane	0.903	1.05	ND	ND	0.693	2.31	0.567	0.546	0.651	0.756
cis-1,2-Dichloroethene	2060	2.22	176	1.77	0.403	0.443	0.564	0.564	0.564	0.403
Cyclohexane	1.71	ND	1.85	36.7	11.2	10.1	0.805	15	36.4	ND
Ethyl acetate	ND	13.2	ND	ND	ND	ND	ND	ND	ND	0.842
Ethylbenzene	1.06	0.53	0.618	1.68	1.18	2.03	1.02	1.77	3.62	0.706

Freon 11	0.914	1.03	0.914	0.857	0.971	0.685	1.2	0.971	ND	0.8
Freon 12	1.66	1.66	1.46	1.66	1.56	1.01	1.61	1.16	1.41	1.71
Heptane	ND	ND	ND	22.9	13.7	14.2	2.33	7.91	35.4	ND
Hexane	ND	ND	ND	61.3	66.6	ND	ND	25.1	211	6.81
Isopropyl alcohol	3.62	81.9	ND	ND	246	ND	ND	ND	ND	ND
m&p-Xylene	3.84	1.72	1.99	5.61	6.22	7.06	3.62	5.61	11.5	2.43
Methyl Butyl Ketone	2.5	0.708	2.54	9.99	9.16	14.6	3.66	10.4	17.5	0.833
Methyl Ethyl Ketone	23.4	4.98	42.6	138	42.3	302	28.8	59.1	193	7.79
Methyl Isobutyl Ketone	1.58	ND	1.46	4	4.54	5.12	2.91	4.41	32.5	ND
Methyl tert-butyl ether	ND	ND	ND	ND	ND	2.86	ND	3.33	34.8	ND
Methylene chloride	0.706	ND	0.424	2.26	0.459	1.73	ND	ND	3.5	ND
o-Xylene	1.32	0.662	0.794	2.03	2.34	2.56	1.46	2.21	4.9	0.971
Styrene	ND	ND	ND	0.52	0.606	0.649	ND	0.563	1.08	ND
Tetrachloroethylene	139,000	13.5	3.31	6.07	1.52	1.17	472	5.1	1.72	0.827
Toluene	3.95	10.7	5.06	17.6	14.6	15.7	5.32	23	30.3	4.56
trans-1,2-Dichloroethene	193	ND	64.1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	4720	2.68	2.18	22.4	1.15	0.983	3.33	1.86	1.31	1.04

ND: Non Detect

Boundary Condition Soil Gas Conclusion

The most significantly elevated levels of VOCs detected in the Boundary Soil Gas samples were in the Shallow-1 Sample collected from a depth of one- to two-feet BGS, adjacent to the northern corner of the building, where 139,000 ug/m^3 of PCE and 4,720 ug/m^3 of TCE were detected. However, these elevated levels of soil gas were detected in the shallow sample only, as only 13.5 ug/m^3 of PCE and 2.68 ug/m^3 of TCE were detected at a depth of six- to eight-feet BGS in the Deep-1 sample.

Similarly elevated levels of VOCs were not detected in the other samples. The boundary soil gas sampling did not indicate concerns relative to off-site vapor migration to adjoining buildings .

2.2 Soil Sampling

2.2.1 Subsurface Soil Sampling

On July 13, 14, 2005, four subsurface soil samples were collected in close proximity to the four corners of the Speedy's building (Figure 3). Organic vapors were screened with a photoionization detector (PID); the soils exhibiting the highest VOC readings were selected for analysis. The soil boring logs are presented in Appendix 6; the PID readings in parts per million (PPM) from the soil samples selected for analysis are as follows:

Location	**PID**
BH1-6′-8′ BSG (feet beneath ground surface)	15ppm
BH2-2′ -4′ BSG	150 ppm
BH3-0′ -4′ BSG	220 ppm, 80 ppm
BH4-6′ -8′ BSG	20 ppm

A hollow stem auger was used to bore through overburden soils and into saturated soils. Continuous split-spoon soil samples were collected at two-foot intervals. Soils were placed in a re-sealable plastic bag, and headspaces were screened with a Photoionization Detector (PID). Soil boring logs and PID readings are included in Appendix 6.

One sample was collected for laboratory analysis from each borehole. These soil samples were submitted for Target Compound List (TCL) volatile organic compounds (VOC); semivolatile

organic compounds (SVOC), pesticides, polychlorinated biphenyls (PCB) and Target Analyte List (TAL) Metals by ASP methodology with Category B deliverables.

All VOC analyses were supplemented with Stoddard Solvent analysis, to investigate historic Stoddard usage relative to the dry cleaning operation. The results of the sub-slab soil analysis are included in Appendix 7.

Results

The results of the July 2005 soil samples are present on the following tables with comparisons to the applicable NYSDEC Part 375 BCP Unrestricted Use and Restricted Use Soil Cleanup Objectives (SCOs). For analytes that are present in Site groundwater, the quantity is compared to the lower of the Restricted Use SCOs for Protection of Public Health for Commercial use or the Protection of Groundwater. For analytes that are not present in the Site groundwater, the quantity is compared to the Restricted Use SCOs for Protection of Public Health for Commercial use.

Table: 7 – 2005 – Soil - VOCs

Sample ID **Sample Depth** **Sampling Date** **units**	**BH-1** **6'-8'** **7/14/05** **ppm**	**BH-2** **2'-6'** **7/13/05** **ppm**	**BH-3** **2'-6'** **7/13/05** **ppm**	**BH-4** **8'-10'** **7/13/05** **ppm**	**Part 375-6.8(a): Unrestricted Use SCO** **ppm**	*** Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance** **ppm**
Methylene chloride	0.045	0.016	0.021	0.025	0.05	500
Acetone	**0.310 E****	0.007 J	ND	**0.058**	0.05	500
Carbon Disulfide	0.005 J	ND	ND	0.002 J	NS	NS
2-Butanone	0.120	ND	ND	0.010	NS	NS
Ethylbenzene	0.006	ND	ND	ND	1	1
Total Xylenes	0.017	ND	ND	ND	0.26	1.6
Cyclohexane	0.042 J	ND	ND	ND	NS	NS
Methylcyclohexane	0.200	ND	ND	ND	NS	NS
Isopropylbenzene	0.120	ND	ND	ND	NS	2.3
Trichloroethene	ND	0.003 J	ND	ND	0.47	0.47
Tetrachloroethene	ND	0.670 D	0.005	0.004	1.3	1.3
cis-1,2-Dichloroethene	ND	0.003 J	ND	ND	0.25	500
Total TICs	6.480	0	0	0	NS	NS
Total VOCs	7.355	0.699	0.026	0.099	100	500

***** For analytes that are present in Site groundwater, the quantity is compared to the lower of the Restricted Use SCOs for Protection of Public Health for Commercial use or the Protection of Groundwater. For analytes that are not present in the Site groundwater the quantity is compared to the Restricted Use SCOs for Protection of Public Health for Commercial use.

** The analyte Acectone exceeded the linear range of the calibration curve for sample BH-1, 6-8. Due to a laboratory oversight, this was not realized until after the holding time had expired, so reanalysis was not possible. The value is reported with an "E" flag.

SCO: Soil Cleanup Objective

ND: Non Detect

NS: No Standard

Bold: Quantity exceeds Unrestricted SCO

Bold: Quantity exceeds Restricted SCO

J: estimated value

E: concentrations exceed the calibration range of the instrument

D: secondary dilution factor

Table: 8 - 2005 - -Soil-SVOCs						
Sample ID **Sample Depth** **Sampling Date** **units**	**BH-1** **6'-8'** **7/14/05** **ppm**	**BH-2** **2'-6'** **7/13/05** **ppm**	**BH-3** **2'-6'** **7/13/05** **ppm**	**BH-4** **8'-10'** **7/13/05** **ppm**	**Part 375-6.8(a): Unrestricted Use SCO**	*** Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance**
Napthalene	2.700	ND	ND	0.021 J	12	500
2-Methylnaphthalene	11.000 D	ND	ND	0.023 J	NS	NS
Acenaphthylene	0.230 J	ND	ND	0.069 J	100	500
Acenaphthene	0.340 J	ND	ND	0.037 J	NS	98
Dibenzofuran	ND	ND	ND	0.062 J	NS	NS
Flourene	1.300	ND	ND	0.110 J	30	386
Phenanthrene	2.000	0.092 J	ND	0.620	100	500
Anthracene	0.350 J	0.011 J	ND	0.140 J	100	500
Carbazole	ND	0.012 J	ND	0.082 J	NS	NS
Di-n-butyl phthalate	ND	ND	0.014 J	0.020 J	NS	NS
Fluoranthene	0.110 J	0.200 J	ND	0.810	NS	500
Pyrene	0.420	0.190 J	ND	0.760	100	500
Benzo (a) anthraene	0.038 J	0.096 J	ND	0.510	1	5.6
Chrysene	0.057 J	0.140 J	ND	0.510	NS	56
Benzo (b) fluoranthene	0.032 J	0.190 J	ND	0.490	1	5.6
Benzo (k) fluoranthene	0.013 J	0.076	ND	0.190 J	NS	56
Benzo (a) pyrene	0.025 J	0.130 J	ND	0.400 J	1	1
Indeno (1,2,3-cd) pyrene	0.017 J	0.140 J	ND	0.270 J	0.5	5.6
Dibenzo (a,h) anthracene	ND	0.040 J	ND	0.087 J	0.33	0.56
Benzo (ghi) perylene	0.018 J	0.160 J	ND	0.270 J	NS	500
Total TICs	50.940	1.440	1.060	7.004	NS	NS
Total SVOCs	69.590	2.917	1.074	13.595	100	500
***** For analytes that are present in Site groundwater, the quantity is compared to the lower of the Restricted Use SCOs for Protection of Public Health for Commercial use or the Protection of Groundwater. For analytes that are not present in the Site groundwater the quantity is compared to the Restricted Use SCOs for Protection of Public Health for Commercial use.						
ND: Non Detect						
NS: No Standard						
Bold: Quantity exceeds Unrestricted SCO						
Bold: Quantity exceeds Restricted SCO						
J: estimated value						
E: consentrations exceed the calibration range of the instrument						
D: secondary dilution factor						

Table: 9 – 2005 - -Soil-Metals

Sample ID Sample Depth Sampling Date units	BH-1 6'-8' 7/14/05 ppm	BH-2 2'-6' 7/13/05 ppm	BH-3 2'-6' 7/13/05 ppm	BH-4 8'-10' 7/13/05 ppm	Table 375 Unrestricted Use ppm	* Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance ppm
Aluminum	7,280 E J	6,030 E J	6,120 E J	7,290 E J	NS	10,000
Arsenic	2.5 N * J	2.6 N * J	2.4 N * J	4.7 N * J	13	16
Barium	81.6	29.9	28.2	53.4	350	400
Beryllium	0.37	0.27	0.27	0.34	7.2	590
Cadmium	0.55	0.28	0.21	0.47	2.5	9.3
Calcium	5,160 *	36,200 *	10,300 *	11,600 *	NS	NS
Chromium	10.6 J	8.0 J	7.6 J	9.3 J	30	1,500
Cobalt	4.4 E	4.4	5.0 E	4.7 E	NS	NS
Copper	16.9 N *	11.0 N *	9.5 N *	22.1 N *	50	270
Iron	11,100 E J	10,900 E J	10,900 E J	10,700 E J	NS	NS
Lead	14.3 E *	4.0 E *	3.4 E *	55.7 E *	63	1,000
Magnesium	2,270	9,420	3,710	5,370	NS	NS
Manganese	ND	ND	ND	ND	1.6	2,000
Mercury	0.055	ND	ND	ND	0.18	2.8
Nickel	9.1	9.6	10.5	10.3	30	130
Potassium	569 E	861 E	882 E	814 E	NS	NS
Selenium	0.94	ND	ND	ND	3.9	1,500
Sodium	422	242 J	120 J	269 J	NS	NS
Vanadium	13.5 E	13.0 E	12.2 E	14.2 E	NS	NS
Zinc	55.9 N E * J	23.6 N E * J	24.2 N E * J	86.9 N E * J	109	2,480

* For analytes that are present in Site groundwater, the quantity is compared to the lower of the Restricted Use SCOs for Protection of Public Health for Commercial use or the Protection of Groundwater. For analytes that are not present in the Site groundwater, the quantity is compared to the Restricted Use SCOs for Protection of Public Health for Commercial use.

ND: Non Detect
NS: No Standard
Bold: Quantity exceeds Unrestricted SCO
Bold: Quantity exceeds Restricted SCO
J: value greater than or equal to instrument detection limit but less than quantitation limit
E: value estimated or not reported due to the presence of interferences
N: spike sample recovery is not within the quality control limits
* correlation coefficient for the Method of Standard Addition is less than 0.995

Stoddard Solvent

Stoddard Solvents are not specifically identified by ASP methodologies; they are reported as Mineral Spirits.

Results

The Mineral Spirits results for the four borehole samples are tabulated in the following table.

Table: 10 - 2005 Soil-Petroleum Products

Sample ID **Sample Depth** **Sampling Date** **units**	**BH-1** **6'-8'** **7/14/05** **ppm**	**BH-2** **2'-6'** **7/13/05** **ppm**	**BH-3** **2'-6'** **7/13/05** **ppm**	**BH-4** **8'-10'** **7/13/05** **ppm**
Mineral Spirits	ND	ND	ND	7.4
Other-1	1500	ND	ND	ND

ND: Non Detect
?
Bold: Quantity exceeds Unrestricted SCO

In BH-1, mineral spirits were reported as "non detect" (ND) at an elevated detection limit of 120 ppm (vs. 11 and 12 ppm for samples BH-2 and BH-3) and "other" petroleum products were detected at 1,500 ppm.

Table: 11 - 2005 Soil-Pesticides

Sample ID **Sample Depth** **Sampling Date** **units**	**BH-1** **6'-8'** **7/14/05** **ppm**	**BH-2** **2'-6'** **7/13/05** **ppm**	**BH-3** **2'-6'** **7/13/05** **ppm**	**BH-4** **8'-10'** **7/13/05** **ppm**	**Table 375** **Unrestricted** **Use** **ppm**
4,4'-DDE	ND	ND	ND	0.001 J P	0.0033
Endrin ketone	ND	ND	ND	0.00089	NS
Alpha-Chlordane	ND	0.00087 J	ND	ND	0.094
Gamma Chlorodane	ND	0.00052 J P	ND	ND	NS

ND: Non Detect
NS: No Standard
Bold: Quantity exceeds Unrestricted SCO
J: value greater than or equal to instrument detection limit but less than quantitation limit
P: greater than 25% difference for detected concentrations between two GC columns

Polychlorinated biphenyls (PCBs)

No PCBs were detected in any of the borehole soil samples.

2.2.2 Sub-Slab Soil Sampling

Three sub-slab soil samples were collected from beneath the Speedy's building for laboratory analysis on October 26, 2005 (Figures 4 a, b). The slab was penetrated with an electric concrete coring device; the sub-slab soils were sampled with a metal bracket-mounted Geoprobe sampler placed directly over the hole.

Two of the sub slab samples were collected from beneath the north side of the building (SS-2, SS-3) where the historic dry cleaning was performed, and one was collected from the southwest corner of the building to investigate conditions relative to the leaking fuel oil tank that was removed and remediated in 1999. The two northern sub slab soil samples were submitted for VOC analysis; and Stoddard Solvent analysis; the sub-slab sample from the former tank area was analyzed for VOC; semivolatile organic compound analysis (SVOC); and Stoddard Solvents.

PID readings in parts per million (PPM) from the soil samples selected for analysis are as follows:

Sub-slab 1, 8′-9.8′ BGS: 180 ppm
Sub-slab 2, 6′-8′ BGS: 60 ppm
Sub-slab 3, 6′-8′ BGS: 120 ppm

Results

Samples are designated with a number designating location (i.e. Sub slab 1) and sample depth; an 8-9 indicates that the sample was collected from the interval of 8 feet to 9 feet beneath the slab.

Table: 12 - 2005 Sub-Slab Soil - VOCs

Sample ID **Sample Depth** **Sampling Date** **units**	**Sub Slab-1** **8'-9'** **10/26/05** **ppm**	**Sub Slab-2** **6'-8'** **10/26/05** **ppm**	**Sub Slab-3** **6'-8'** **10/26/05** **ppm**	**Part 375-6.8(a): Unrestricted Use SCO** **ppm**	*** Part 375-6.8(b) Restricted Commercial Use SCO** **ppm**
Vinyl chloride	**0.190 J**	ND	0.270 J	0.02	13
Acetone	ND	0.025	ND	0.05	500
2-Butanone	ND	0.006 J	ND	NS	NS
Total Xylenes	ND	0.087	ND	0.26	1.6
Cyclohexane	ND	0.022	ND	NS	NS
Methylcyclohexane	ND	0.150	ND	NS	NS
Isopropylbenzene	ND	0.110	ND	NS	2.3
TCE	ND	ND	**0.650 J**	0.47	0.47
Tetrachloroethene	ND	ND	0.250 J	1.3	1.3
cis-1,2-DCE	**4.600**	ND	**16.000**	0.25	500
trans-1,2-DCE	**0.320 J**	ND	**0.640 J**	0.19	500
Total TICs	0	7.170	3.770	NS	NS
Total VOCs	5.110	7.570	21.580	100	500

* For analytes that are present in Site groundwater, the quantity is compared to the lower of the Restricted Use SCOs for Protection of Public Health for Commercial use or the Protection of Groundwater.

SCO: Soil Cleanup Objective
ND: Non Detect
NS: No Standard
Bold: Quantity exceeds Unrestricted SCO
Bold: Quantity exceeds Restricted SCO
J: estimated value
E: consentrations exceed the calibration range of the instrument
D: secondary dilution factor

Table: 13 - 2005 Soil- SVOCs			
Sample ID **Sample Depth** **Sampling Date** **units**	**Sub Slab-1** **8'-9'** **10/26/05** **ppm**	**Part 375-6.8(a): Unrestricted Use SCO**	*** Part 375-6.8(b) Restricted Use SCO and CP-51 Soil Cleanup Guidance**
Napthalene	1.100	12	500
2-Methylnaphthalene	5.600 D	NS	NS
Acenaphthene	0.270 J	NS	98
Flourene	0.770	30	386
Phenanthrene	1.800	100	500
Anthracene	0.250 J	100	500
Fluoranthene	0.220 J	NS	500
Pyrene	0.270 J	100	500
Benzo (a) anthraene	0.061 J	1	5.6
Chrysene	0.080 J	NS	56
Bis (2-ethylhexyl) phthalate	0.066 BJ	NS	NS
Benzo (b) fluoranthene	0.067 J	1	5.6
Benzo (k) fluoranthene	0.026 J	NS	56
Benzo (a) pyrene	0.046 J	1	1
Indeno (1,2,3-cd) pyrene	0.032 J	0.5	5.6
Dibenzo (a,h) anthracene	0.011 j	0.33	0.56
Total TICs	31.890	NS	NS
Total SVOCs	42.559	100	500
* For analytes that are present in Site groundwater, the quantity is compared to the lower of the Restricted Use SCOs for Protection of Public Health for Commercial use or the Protection of Groundwater. For analytes that are not present in the Site groundwater, the quantity is compared to the Restricted Use SCOs for Protection of Public Health for Commercial use.			
ND: Non Detect			
NS: No Standard			
Bold: Quantity exceeds Unrestricted SCO			
Bold: Quantity exceeds Restricted SCO			
J: estimated value			
E: consentrations exceed the calibration range of the instrument			
D: secondary dilution factor			

Stoddard Solvent

Stoddard Solvents are not specifically identified by ASP methodologies; they are reported as Mineral Spirits;

Results

The Mineral Spirits results for the three sub-slab samples are as follows:

Table: 14 - 2005 Sub-Slab – Petroleum Products

Sample ID **Sample Depth** **Sampling Date** **units**	**Sub Slab-1** **8'-9'** **10/26/05** **ppm**	**Sub Slab-2** **6'-8'** **10/26/05** **ppm**	**Sub Slab-3** **6'-8'** **10/26/05** **ppm**
Mineral Spirits	ND	ND	ND
Other	1900 J	1.8 J	68 J

ND: Non Detect

J: estimated value

In sample Sub Slab-1, mineral spirits were reported as "non detect" (ND) at an elevated detection limit of 230 ppm (vs. 12 and 11 ppm for samples Sub Slab-2 and Sub Slab-3) and "other" petroleum products were detected at 1,900 ppm.

2.2.3 Soils Discussion

As the tabulated data indicate, acetone; vinyl chloride; trichloroethene (TCE); cis-1,2-dichloroethene (DCE); and trans-1,2- DCE were detected in concentrations greater than the Unrestricted Use SCOs. The concentrations of these compounds are at least one order of magnitude less than the Restricted Use SCO for Protection of Public Health for Commerical Use. Of these five compounds, only tricholoroethene was also detected in site groundwater. The concentration of TCE in soil sample location Sub Slab-3 exceeds the Restricted Use SCO for Protection of Groundwater.

Mineral spirits were detected in soil sample BH-4 at a concentration of 7.4 ppm. In soil samples BH-1 and Sub Slab-1, mineral spirits were reported as "non detect" (ND) at elevated detection limits of 120 ppm and 230 ppm respectively (vs. 11 and 12 ppm for other sample locations) and "other" petroleum products were detected at

concentrations of 1,500 ppm and 1,900 ppm respectively. These data indicate that there could be impacts from stoddard solvent and/or other petroleum products at these locations.

All of the site soils are underneath the subject building or underneath the surrounding asphalt parking lot. There is currently no potential exposure through direct contact with these soils. However there is a potential for inhalation exposure via soil vapor intrusion.

2.3 Groundwater Well Installation

Three monitoring wells (MW-2, MW-3, and MW-4) were installed on July 13, 14, 2005 in the approximate locations indicated on Figure 3. Pre-existing monitoring well MW-1, located at the southwest corner of the building, was also used during the RI. Monitoring wells were constructed of 2-inch diameter, machine slot PVC well screen and PVC riser; the well screens are 10 feet long.

The well elevations and water levels measured during the low-flow sampling event on September 9, 2005 are presented below:

Well #	Elevation	Depth to Water
MW-1	440.6	7.83
MW-2	440.7	10.97
MW-3	440.2	11.31
MW-4	441.3	8.78

Groundwater elevations and contours demonstrating a northeasterly flow direction, which confirms the flow direction calculated by Harding Lawson in 2003, are depicted on Figure 6.

2.3.1 Groundwater Sampling

On September 9, 2005 groundwater samples were collected from each of the four monitoring wells. The samples were collected using low-flow minimal drawdown methodology. The pH, temperature, turbidity, conductivity, dissolved oxygen, and redox potential of the water were monitored while purging the wells. Parameters were considered stabilized when pH varied less than 0.1 unit, conductivity varied less than 3%, and redox varied less than 10 mv (Appendix 9).

Results

The groundwater results are tabulated below and included in Appendix 8.

Table: 15 - 2005 Groundwater - VOCs

Sample ID Sampling Date units	MW-1 9/9/05 ug/L	MW-2 9/9/05 ug/L	MW-3 9/9/05 ug/L	MW-4 9/9/05 ug/L	Groundwater Standard ug/L
1,1-Dichloroethene	**33**	ND	**52**	ND	5
Trichloroethene	**30**	ND	**46**	ND	5
Benzene	**29**	ND	**45**	ND	2
Tetrachloroethene	**64 B**	ND	**94 B**	ND	5
Toluene	**29**	ND	**45**	ND	5
Chlorobenzene	**28**	ND	**44**	ND	5
Ethylbenzene	ND	ND	ND	**130**	5
Total Xylenes	ND	ND	ND	**1,000**	50
Isopropylbenzene	ND	ND	ND	**680**	5
Total TICs	0	0	0	4,450	NS
Total TCL	213	0	326	6,260	NS

ND: Non Detect
NS: No Standard
Bold: Quantity exceeds Groundwater Standard
B: Analyte detected in the associated Method Blank

Stoddard Solvent

Stoddard Solvents are not specifically identified by ASP methodologies; they are reported as Mineral Spirits;
The Mineral Spirits results for the four groundwater samples are as follows:

Results

Table: 16 - 2005 Groundwater-Petroleum Products

Sample ID Sampling Date units	MW-1 9/9/05 ug/L	MW-2 9/9/05 ug/L	MW-3 9/9/05 ug/L	MW-4 9/9/05 ug/L
Mineral Spirits	ND	ND	ND	ND
Other	ND	ND	ND	9.7

ND: Non Detect

The groundwater samples were analyzed for VOC and Stoddard Solvents by ASP methodology with Category B deliverables. Based on Passero Associates' and Harding Lawson's previous work, the well at the northwest corner of the Speedy's Building, MW-2, was anticipated to be the most contaminated. The groundwater sample from this well was also analyzed for SVOCs, pesticides, PCBs and TAL metals. The soil samples from the other 3 borings did not indicate concern relative to these parameters

Table: 17 - 2006 Groundwater - SVOCs

Sample ID **Sampling Date** **units**	**MW-2** **08/31/06** **ug/L**	**Groundwater Standard** **ug/L**
2-Methylnaphthalene	1 J	NS
Acenaphthene	2 J	20
Dibenzofuran	0.7 J	NS
Fluorene	1 J	50
Phenanthrene	0.9 J	50
Anthracene	0.9 J	50
Carbazole	0.9 J	NS
Total TICs	65	NS
Total TCL	137.4	NS

ND: Non Detect
NS: No Standard
Bold: Quantity exceeds Groundwater Standard
B: Analyte detected in the associated Method Blank
J: Estimated Value

Table: 18 - 2006 Groundwater-Metals		
Sample ID **Sampling Date** **units**	**MW-2** **08/31/06** **ug/L**	**Groundwater Standard** **ug/L**
Iron	**10,600**	300
Magnesium	**47,200**	35,000
Manganese	**564**	300
Sodium	**310,000**	20,000
ND: Non Detect		
NS: No Standard		
Bold: Quantity exceeds Groundwater Standard		
B: Analyte detected in the associated Method Blank		

Pesticides
The results for Pesticides in MW-2 were all Non Detect.
PCBs
The results for PCBs in MW-2 were all Non Detect.

2.3.2 Groundwater Discussion

As indicated above, three of the four on-site monitoring wells have contamination at concentrations greater than the applicable TOGS 1.1.1 Groundwater Standards. However, the immediately down gradient groundwater beneath the RG&E right-of-way is contaminated at concentrations orders of magnitude greater than the groundwater contamination detected on site. The only potential receptors to the on-site contamination are occupants of the subject building via the vapor intrusion route. The ASD that was installed in April 2006 reduces the potential for vapor intrusion into the building.

2.4 Data Usability Summary Reports (DUSRs)

All of the Severn Trent soil and groundwater data in the RI report have been review by Kenneth R. Applin, Ph.D. of KR Applin and Associates. The data have been reviewed in accordance with assessment criteria provided by NYSDEC following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data and in Standard Operating Procedures provided by the laboratory.

All analytical results reported by the laboratory are included in Appendix 7 and 8 and are considered valid and acceptable. The DUSRs are included in Appendix 11.

3 HUMAN HEALTH EXPOSURE ASSESSMENT

This Section presents the Human Health Exposure Assessment, and then discusses remedial options, if any, under consideration to address the contamination that we have identified to date. The Human Health Exposure Assessment (HHEA) is performed in conformance with NYSDEC and NYSDOH guidance (DER-10). The HHEA is performed to characterize the exposure setting to identify the exposure pathway, and evaluate the contaminant fate and transport.

As stated in the NYSDOH protocol, a complete exposure pathway must have all of the following five elements present:

1. a contaminant source;
2. contaminant release and transport mechanisms;
3. a point of exposure;
4. a route of exposure; and
5. a receptor population.

The source of contamination is the location where contaminants were released to the environment (any waste disposal area or point of discharge). Contaminant release and transport mechanisms carry contaminants from the source to a point where people may be exposed. The exposure point is a location where actual or potential human contact with a contaminated medium may occur. The route of exposure is the manner in which a contaminant actually enters or contacts the body (e.g., ingestion, inhalation, or direct contact). The receptor population is the people who are, or may be, exposed to contaminants at a point of exposure.

3.1 Contaminant Source

The contaminant source was the historic on-site Speedy's Cleaners dry cleaning operation. Per the NYSDOH protocol, the contaminant source is defined as the contaminated soils and groundwater.

3.2 Contaminant Release and Transport Mechanisms

The flow of the plume of contaminated groundwater is the transport mechanism for site contaminants. The groundwater potentiometric surface maps prepared by Harding Lawson Associates and verified by Passero Associates indicate that the transport mechanism is the north-northeasterly flow of groundwater.

Soil vapor is also a potential transport mechanism, as soil vapor has been proven to migrate independently of groundwater.

3.3 Points of Exposure

The exposure pathway considered most applicable to the Site is inhalation of airborne volatiles and particulates. If any future Site improvements require excavation, Site soils and groundwater may also pose an exposure concern to the construction workers.

3.3.1 Potential Exposure Pathways for Soil

There is potential of exposure under the current use of the building to construction/utility workers who maybe performing work in or adjacent to the Site area.

3.3.2 Potential Exposure Pathways for Groundwater

The contamination detected in the on-site monitoring wells is hydraulically up gradient of, and orders of magnitude less than groundwater contamination identified by Harding Lawson beneath the RG&E right-of-way north of the building. There are no on-site drinking water wells.

Future excavation work could cause exposure to contaminated groundwater, particularly if dewatering is necessary.

The primary human health concern associated with groundwater contamination is the use of groundwater as a potable water supply. The area is served by a public water supply and there are no wells or potential methods of groundwater contact. No significant human exposure to contaminated groundwater is occurring at present

The adjacent Oak Hill Country Club golf course does not use groundwater for any purpose. The golf course pumps water from the nearby Erie Canal for irrigation purposes.

3.3.3 Potential Exposure Pathways for Soil Gas and Air

As discussed, since the ASD has been modified and adjusted to increase efficiency in several steps, indoor air concentrations in both sides of the subject building have been in conformance with NYSDOH Air Guidance Values.

To alleviate future concerns relative to vapor intrusion, it is recommended that the ASD be upgraded with a low-pressure warning device set to activate an alarm light and audible local alarm to alert the tenants that the ASD is not functioning properly and requires maintenance.

The Boundary Soil Vapor investigation did not indicate potential concerns relative to off-site vapor migration to adjacent buildings.

3.3.4 Population Exposed

The soils with concentrations of VOCs greater than the Part 375 Unrestricted Use SCOs are beneath the building or parking lot; no population is currently exposed.

There will be potential for future exposure if excavation is performed, allowing workers to be exposed to the buried soils or groundwater.

3.3.5 Site Use

The subject building is currently used for commercial purposes, and can reasonably be anticipated to remain a commercial building in the future.

3.3.6 Off-Site Areas

The affected areas off-site, as identified by Harding Lawson Associates, are the RG&E right-of-way to the north, and the Oak Hill Country Club golf course, hydraulically downgradient from the subject site.

3.3.7 Exposure Pathways On-site

As discussed, since the ASD has been modified and adjusted to increase efficiency in several steps, indoor air concentrations in both sides of the subject building have been in conformance with NYSDOH Air Guidance Values.

To alleviate future concerns relative to vapor intrusion, it is recommended that the ASD be upgraded with a low-pressure warning device set to activate an alarm light and audible local alarm to alert the tenants that the ASD is not functioning properly and requires maintenance.

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3.3.8 Soil as a Contamination Source

No on-site soils were identified with contaminants at concentrations greater than the Part 375 Restricted Use SCOs for Protection of Public Health for Commercial Use.

Site-soils exceed Unrestricted Use SCOs as well as Restricted Use SCOs for Protection of Groundwater. Site soils have the potential to be a contributing source of soil vapor intrusion.

3.3.9 Vapor Intrusion

As discussed, since the ASD has been modified and adjusted to increase efficiency in several steps, indoor air concentrations in both sides of the subject building have been in conformance with NYSDOH Air Guidance Values.

To alleviate future concerns relative to vapor intrusion, it is recommended that the ASD be upgraded with a low-pressure warning device set to activate an alarm light and audible local alarm to alert the tenants that the ASD is not functioning properly and requires maintenance.

The Boundary Soil Vapor investigation did not indicate potential concerns relative to off-site vapor migration to adjacent buildings.

3.3.10 Exposure Pathways

A reasonably anticipated exposure pathway would be future excavation that could disturb contaminated soils and groundwater. Groundwater could also become an exposure pathway if an on-site or off-site well were installed for drinking or irrigation purposes.

The most likely future exposure pathway would be if the ASD malfunctions, allowing soil vapor intrusion to occur. To address this concern, we are recommending that the ASD be upgraded with a low-pressure warning device set to activate an alarm light and audible local alarm to alert the tenants that the ASD is not functioning properly and requires maintenance.

3.4 Human Health Exposure Assessment Conclusions

With the installation and continued operation of the ASD to mitigate vapor intrusion into the subject building, and the results of the boundary investigation air sampling conducted on September 1, 2006, there is minimal potential for future human exposure to soil vapors.
The site is currently used for commercial purposes. It is anticipated to be used as commercial space in the future.

The most likely future exposure pathway would be if the ASD malfunctions, allowing soil vapor intrusion to occur. To address this concern, we are recommending that the ASD be upgraded with a low-pressure warning device set to activate an alarm light and audible local alarm to alert the tenants that the ASD is not functioning properly and requires maintenance.

The soils that exceed the applicable Part 375 BCP Unrestricted Use Soil Cleanup Objectives are beneath the asphalt parking lot (acetone) or the building (vinyl chloride, TCE, cis-1,2-DCE, trans-1,2-DCE). They are immediately upgradient of the grossly contaminated groundwater in the RG&E right-of-way north of the building.

3.5 Fish & Wildlife Resource Impact Analysis (FWRIA)

Section 3.10.1 of DER-10 states that under the following conditions, no FWRIA is needed:

1. There are no fish and wildlife resources on or adjacent to the site or area of concern and the absence of resources is not due to contamination at the site; or

2. The site or area of concern is a point source of contamination to the groundwater (i.e. dry cleaner or gas station) which will be prevented from discharging to surface water, and there is no widespread soil contamination or habitat of an endangered, threatened, or special concern species present.

With the exception of the adjacent RG&E right-of-way at the north side of the Speedy's Cleaners parcel, all of the adjacent parcels are paved parking areas associated with commercial properties to the east and west; Monroe Avenue to the south; and Wegman's Food Market and parking lot south of Monroe Avenue. Harding Lawson determined that the right-of-way north of Speedy's was contaminated to hazardous levels by historic Speedy's Cleaners discharges. Both of the Draft DER-10 criteria are met, indicating that the FWRIA is not required (Appendix 10).

3.6 Risk Assessment Summary

Based on this Assessment, potential exposures were found to only occur during site remediation and construction, but not under future use scenarios, thus not impacting future occupants of the Site.

The exposure pathway that appears to have the highest degree of potential future exposure would be if the ASD malfunctions, allowing soil vapor intrusion to occur. To address this concern, we are recommending that the ASD be upgraded with a low-pressure warning device set to activate an alarm light and audible local alarm to alert the tenants that the ASD is not functioning properly and requires maintenance.

4 CONCLUSION

The following tables summarize the soil data in concentrations greater than the Unrestricted Use SCOs and groundwater data at concentrations greater than the applicable TOGS 1.1.1 Groundwater Standards generated during the RI:

Soil

Sample ID	BH-1	BH-4	Part 375-6.8(a): Unrestricted Use SCO	* Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance
Acetone	**0.310 E****	**0.058**	0.05	500

Sample ID Sample Depth Sampling Date units	Sub Slab-1 8'-9' 10/26/2005 ppm	Sub Slab-3 6'-8' 10/26/2005 ppm	Part 375-6.8(a): Unrestricted Use SCO	* Part 375-6.8(b) Restricted Commercial Use SCO
Vinyl chloride	**0.190 J**	0.270 J	0.02	13
TCE	ND	**0.650 J**	0.47	200
cis-1,2-DCE	**4.6**	**16**	0.25	500
trans-1,2-DCE	**0.320 J**	**0.640 J**	0.19	500

Groundwater

Sample ID	MW-2	
Sampling Date	08/31/06	Groundwater Standard
units	ug/L	ug/L
Iron	**10,600**	300
Magnesium	**47,200**	35,000
Manganese	**564**	300
Sodium	**310,000**	20,000

Sample ID	MW-1	MW-3	MW-4	
Sampling Date	9/9/05	9/9/05	9/9/05	Groundwater Standard
units	ug/L	ug/L	ug/L	ug/L
1,1-DCE	**33**	**52**	ND	5
TCE	**30**	**46**	ND	5
Benzene	**29**	**45**	ND	2
PCE	**64 B**	**94 B**	ND	5
Toluene	**29**	**45**	ND	5
Chlorobenzene	**28**	**44**	ND	5
Ethylbenzene	ND	ND	**130**	5
Total Xylenes	ND	ND	**1,000**	50
Isopropylbenzene	ND	ND	**680**	5
Total TICs	0	0	4,450	NS
Total TCL	213	326	6,260	NS

Contaminants in site soil that were detected in concentrations greater than the Unrestricted Use SCOs include acetone; vinyl chloride; TCE; cis-1,2-DCE; and trans-1,2-DCE. The concentrations of these compounds are at least one order of magnitude less than the Restricted Use SCO for Protection of Public Health for Commercial Use. Of these five compounds, only TCE was also detected in site groundwater. The concentration of TCE in soil sample location Sub Slab-3 exceeds the Restricted Use SCO for Protection of Groundwater.

Mineral spirits were detected in soil sample BH-4 at a concentration of 7.4 ppm. In soil samples BH-1 and Sub Slab-1, mineral spirits were reported as "non detect" (ND) at elevated detection limits of 120 ppm and 230 ppm respectively (vs. 11 and 12 ppm for other sample locations) and "other" petroleum products were detected at concentrations of 1,500 ppm and 1,900 ppm respectively. These data indicate that there could be impacts from stoddard solvent and/or other petroleum products at these locations.

Three of the four on-site monitoring wells have contamination at concentrations greater than the applicable TOGS 1.1.1 Groundwater Standards. However, the immediately down gradient groundwater beneath the RG&E right-of-way is

contaminated at concentrations orders of magnitude greater than the groundwater contamination detected on site.

All of the site soils are underneath the subject building or underneath the surrounding asphalt parking lot. There is currently no potential exposure through direct contact with these soils or groundwater; however, future excavation or site work could present the potential for exposure.

These data indicate that the primary source of potential exposure to site contaminants is through soil vapor intrusion into the building. An ASD was installed as an IRM to mitigate concerns relative to vapor intrusion. Indoor air samples within the building have been in conformance with the NYSDOH Air Guideline Values for PCE and TCE since March 2010.

Soil gas samples collected along the property boundary did not indicate concerns relative to off-site vapor migration to adjoining buildings.

The most likely future exposure pathway would be if the ASD malfunctions, allowing soil vapor intrusion to occur. To address this concern, we are recommending that the ASD be upgraded with a low-pressure warning device set to activate an alarm light and audible local alarm to alert the tenants that the ASD is not functioning properly and requires maintenance.

Remedial alternatives will be evaluated to address contaminants in soil and groundwater at concentrations that exceed applicable standards, criteria, and guidance for unrestricted use.

We the undersigned certify that all activities in the approved Remedial Investigation Work Plan (RIWP), subsequent work plan addenda, and the IRM Work Plan have been completed.

Peter S. Morton, C.P.G.
Certified Professional Geologist

Gary W. Passero, P.E., R.E.M.
President and CEO

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Soil gas samples collected along the property boundary did not indicate concerns relative to off-site vapor migration to adjoining buildings.

The exposure pathway that appears to have the highest degree of potential future exposure would be if the ASD malfunctions, allowing soil vapor intrusion to occur. To address this concern, we are recommending that the ASD be upgraded with a low-pressure warning device set to activate an alarm light and audible local alarm to alert the tenants that the ASD is not functioning properly and requires maintenance.

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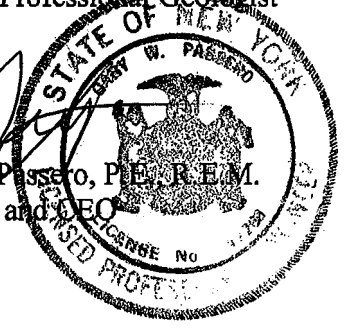
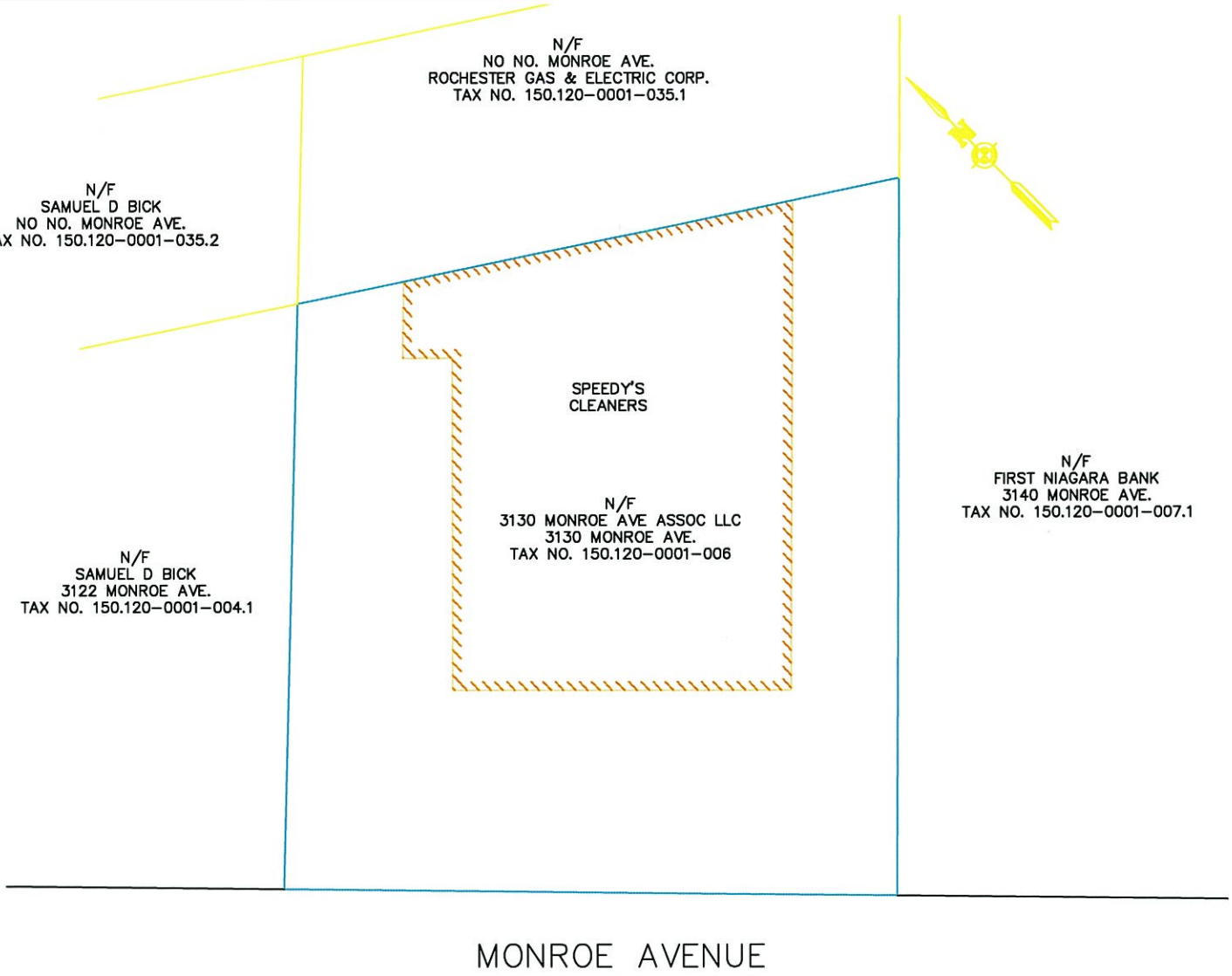
Peter S. Morton, C.P.G.
Certified Professional Geologist



Gary W. Passero, P.E., R.E.M.
President and CEO



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Project:	SPEEDY'S CLEANERS BCP FIGURE 1 SITE LOCATION MAP / TAX MAP	Scale: 1" 30' Date: 03-28-2012 PIC: John Caruso, P.E. PM: Ed Freeman, P.L.S.
Client:	SPEEDY'S CLEANERS SITE PITTSFORD, NEW YORK SITE NO. 8-28-109	Designer: R.D.C. Project No. 99000018.0015

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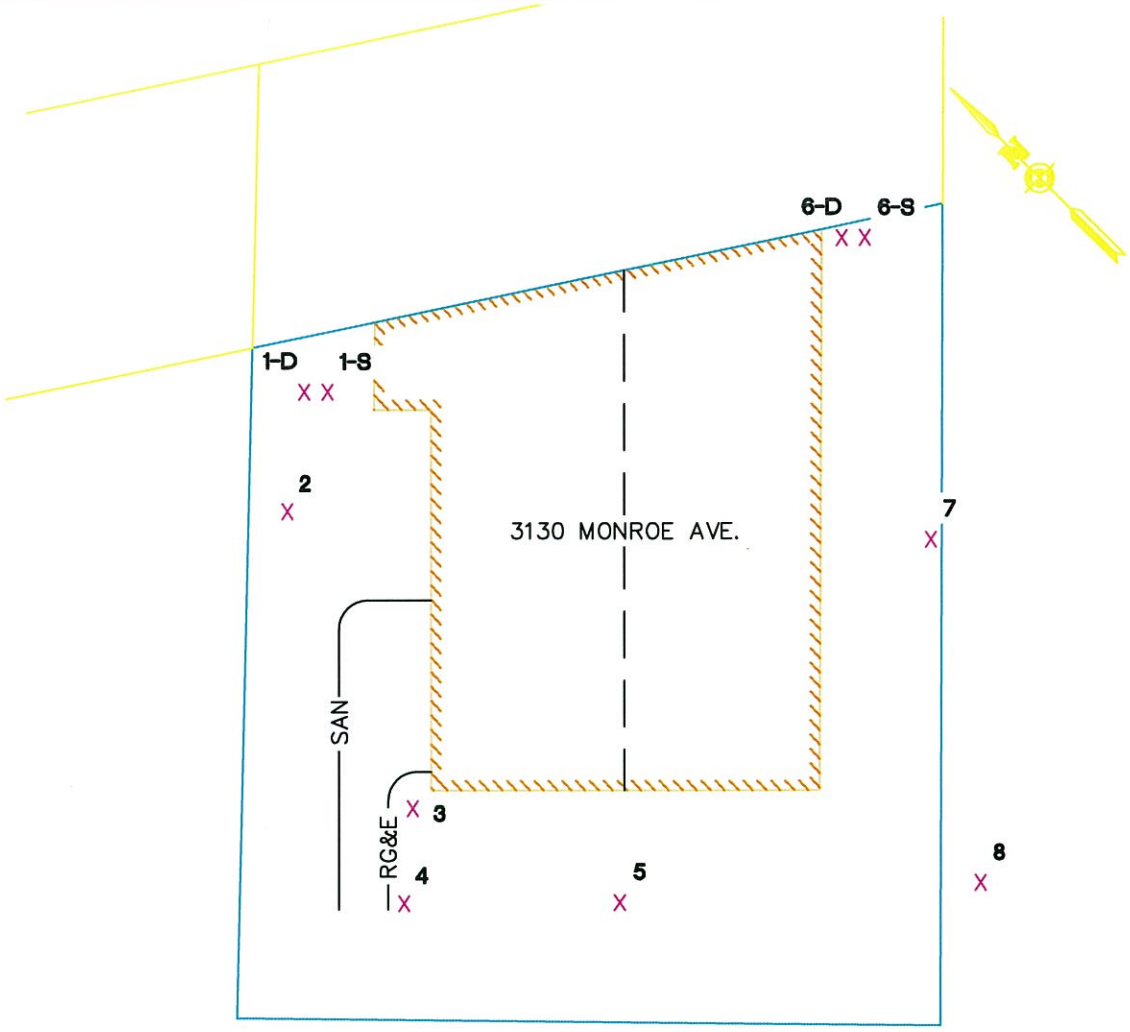
Project:	SPEEDY'S CLEANERS BCP FIGURE 2 SOIL VAPOR INTRUSION SAMPLES SEPTEMBER 2005	Scale: 1" 30' Date: 03-28-2012 PIC: John Caruso, P.E. PM: Ed Freeman, P.L.S.
Client:	SPEEDY'S CLEANERS SITE PITTSFORD, NEW YORK SITE NO. 8-28-109	Designer: R.D.C. Project No. 99000018.0015



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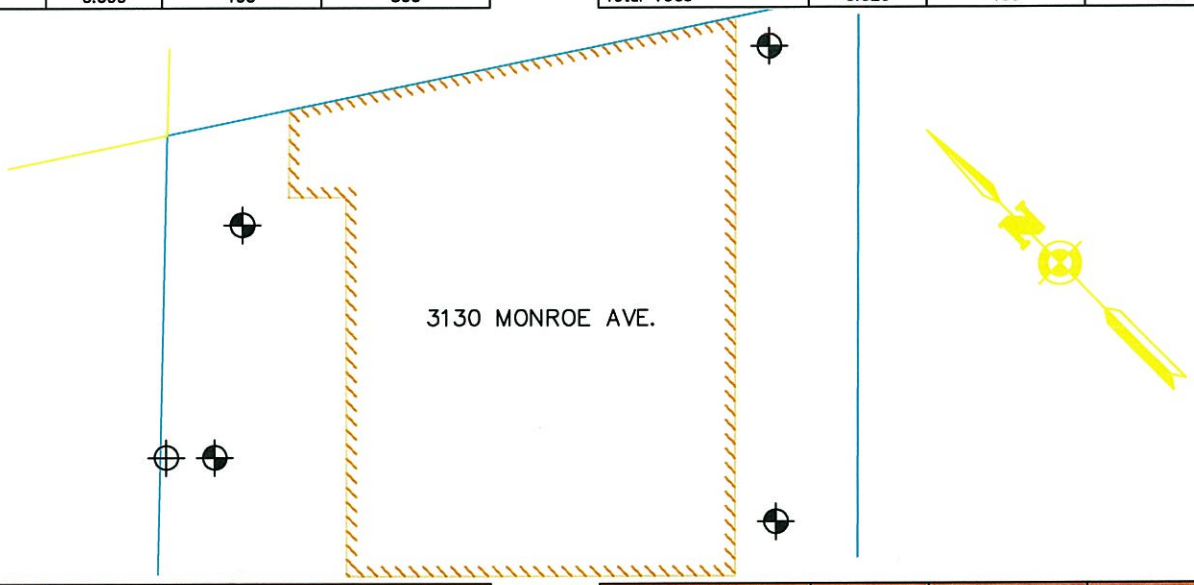
Project:	SPEEDY'S CLEANERS BCP FIGURE 3 BOUNDARY SOIL GAS SAMPLES 11/28/06	Scale: 1" 30' Date: 03-28-2012 PIC: John Caruso, P.E. PM: Ed Freeman, P.L.S.
Client:	SPEEDY'S CLEANERS SITE PITTSFORD, NEW YORK SITE NO. 8-28-109	Designer: R.D.C. Project No. 99000018.0015

Sample ID Sample Depth Sampling Date units	BH-2 2'-6' 7/13/05 ppm	Part 375-6.8(a): Unrestricted Use SCO	* Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance
Methylene chloride	0.016	0.05	500
Acetone	0.007 J	0.05	500
Carbon Disulfide	ND	NS	NS
2-Butanone	ND	NS	NS
Ethylbenzene	ND	1	1
Total Xylenes	ND	0.26	1.6
Cyclohexane	ND	NS	NS
Methylcyclohexane	ND	NS	NS
Isopropylbenzene	ND	NS	2.3
Trichloroethene	0.003 J	0.47	0.47
Tetrachloroethene	0.670 D	1.3	1.3
cis-1,2-Dichloroethene	0.003 J	0.25	500
Total TICs	0	NS	NS
Total VOCs	0.699	100	500

Sample ID Sample Depth Sampling Date units	BH-3 2'-6' 7/13/05 ppm	Part 375-6.8(a): Unrestricted Use SCO	* Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance
Methylene chloride	0.021	0.05	500
Acetone	ND	0.05	500
Carbon Disulfide	ND	NS	NS
2-Butanone	ND	NS	NS
Ethylbenzene	ND	1	1
Total Xylenes	ND	0.26	1.6
Cyclohexane	ND	NS	NS
Methylcyclohexane	ND	NS	NS
Isopropylbenzene	ND	NS	2.3
Trichloroethene	ND	0.47	0.47
Tetrachloroethene	0.005	1.3	1.3
cis-1,2-Dichloroethene	ND	0.25	500
Total TICs	0	NS	NS
Total VOCs	0.026	100	500



Sample ID Sample Depth Sampling Date units	BH-1 6'-8' 7/14/05 ppm	Part 375-6.8(a): Unrestricted Use SCO	* Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance
Methylene chloride	0.045	0.05	500
Acetone	0.310 E**	0.05	500
Carbon Disulfide	0.005 J	NS	NS
2-Butanone	0.120	NS	NS
Ethylbenzene	0.006	1	1
Total Xylenes	0.017	0.26	1.6
Cyclohexane	0.042 J	NS	NS
Methylcyclohexane	0.200	NS	NS
Isopropylbenzene	0.120	NS	2.3
Trichloroethene	ND	0.47	0.47
Tetrachloroethene	ND	1.3	1.3
cis-1,2-Dichloroethene	ND	0.25	500
Total TICs	6.480	NS	NS
Total VOCs	7.355	100	500

Sample ID Sample Depth Sampling Date units	BH-4 8'-10' 7/13/05 ppm	Part 375-6.8(a): Unrestricted Use SCO	* Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance
Methylene chloride	0.025	0.05	500
Acetone	0.058	0.05	500
Carbon Disulfide	0.002 J	NS	NS
2-Butanone	0.010	NS	NS
Ethylbenzene	ND	1	1
Total Xylenes	ND	0.26	1.6
Cyclohexane	ND	NS	NS
Methylcyclohexane	ND	NS	NS
Isopropylbenzene	ND	NS	2.3
Trichloroethene	ND	0.47	0.47
Tetrachloroethene	0.004	1.3	1.3
cis-1,2-Dichloroethene	ND	0.25	500
Total TICs	0	NS	NS
Total VOCs	0.099	100	500

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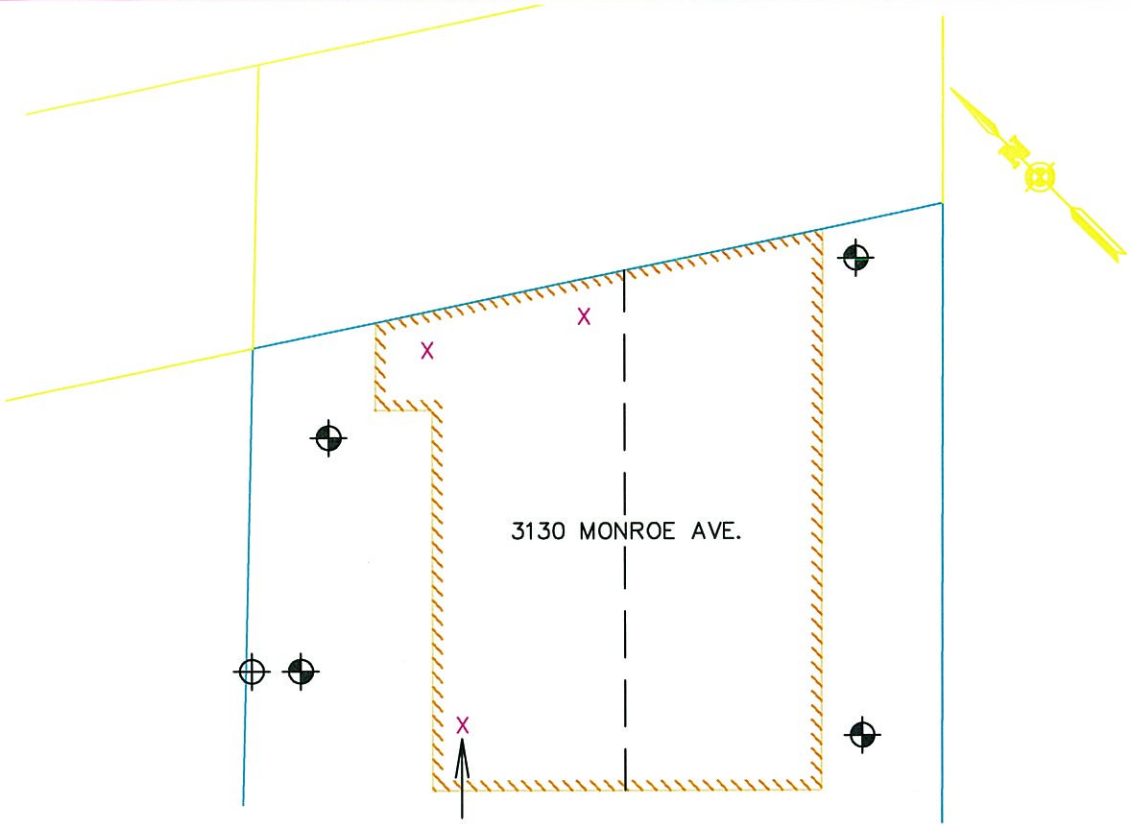
Project:	SPEEDY'S CLEANERS BCP FIGURE 4 SOIL SAMPLES - LOCATION & RESULT JULY 13 & 14, 2005	Scale: 1" 30' Date: 03-28-2012 PIC: John Caruso, P.E. PM: Ed Freeman, P.L.S.
Client:	SPEEDY'S CLEANERS SITE PITTSFORD, NEW YORK SITE NO. 8-28-109	Designer: R.D.C. Project No. 99000018.0015



Analyte	Sub Slab 1 8-9 (ppm)	RSCO (ppm)
Vinyl chloride	0.19 J	0.02
Acetone	ND	500
2-Butanone	ND	NS
Trichloroethene	ND	0.47
Tetrachloroethylene	ND	1.3
Total Xylenes	ND	0.26
cis-1,2-Dichloroethene	4.6	500
trans-1,2-Dichloroethene	ND	0.19
Cyclohexane	ND	NS
Methylcyclohexane	ND	NS
Isopropylbenzene	ND	2.3

Sub Slab SVOC		
Analyte	Sub Slab 1 8-9 (ppm)	RSCO (ppm)
Naphtalene	1.1 DJ	100
2-Methylnaphthalene	5.6 D	NS
Acenaphthene	0.320 DJ	100
Fluorene	0.870 DJ	100
Phenanthrene	19 D	100
Anthacene	0.220 DJ	100
Fluoranthene	0.190 DJ	100
Pyrene	0.3 DJ	100
Benzo(a)anthracene	69 DJ	1
Chrysene	0.084 DJ	3.9
Bis(2-ethylhexyl) phthalate	0.073 BDJ	NS
Benzo(b)fluoranthene	0.073 DJ	1

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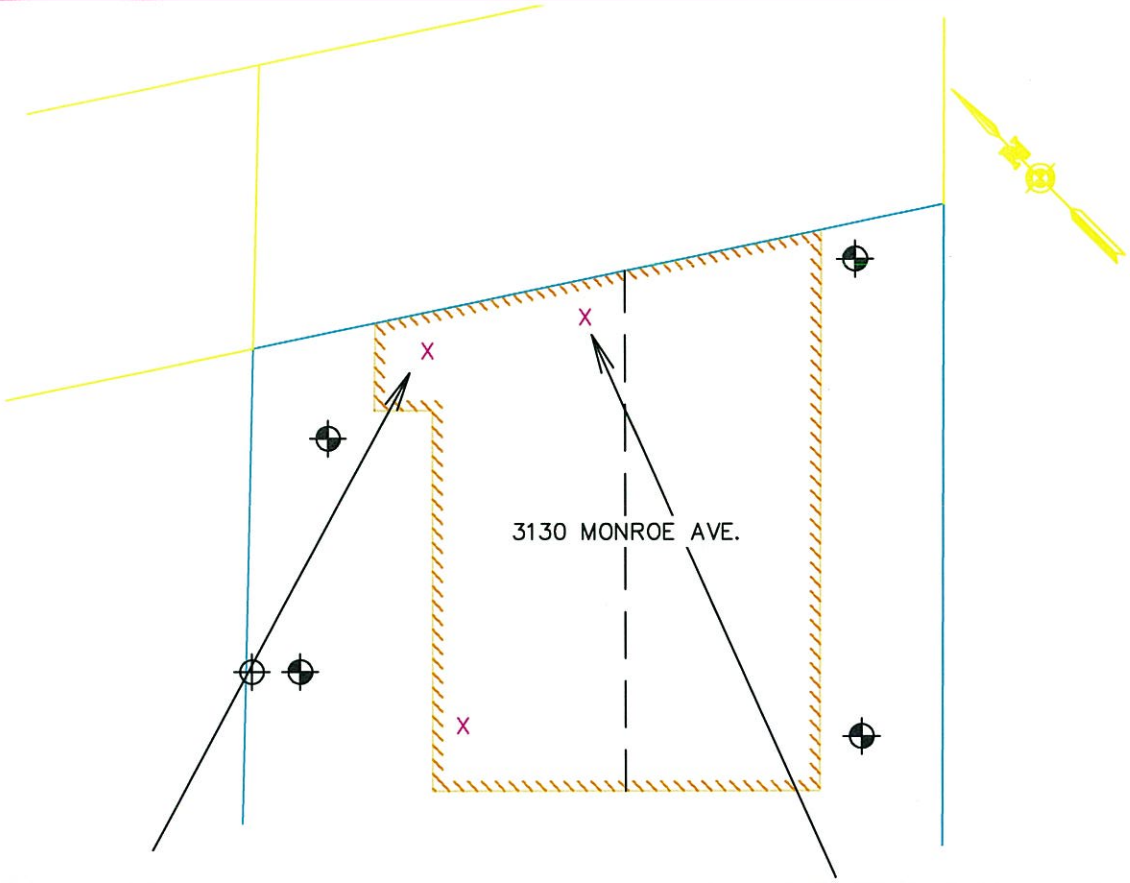
Project: SPEEDY'S CLEANERS BCP
FIGURE 5
SUB-SLAB SOIL SAMPLES
OCTOBER, 2005

Client: SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK
SITE NO. 8-28-109

Scale: 1" 30'
Date: 03-28-2012
PIC: John Caruso, P.E.
PM: Ed Freeman, P.L.S.
Designer: R.D.C.
Project No.
99000018.0015



Analyte	Sub Slab 2 6–8 (ppm)	RSCO (ppm)
Vinyl chloride	ND	0.02
Acetone	0.25	500
2–Butanone	0.006 J	NS
Trichloroethene	ND	0.47
Tetrachloroethylene	ND	1.3
Total Xylenes	0.087	0.26
cis–1,2–Dichloroethene	ND	500
trans–1,2–Dichloroethene	ND	0.19
Cyclohexane	0.022	NS
Methylcyclohexane	0.150	NS
Isopropylbenzene	0.110	2.3

Analyte	Sub Slab 2 6–8 (ppm)	RSCO (ppm)
Vinyl chloride	0.270 J	0.02
Acetone	ND	500
2–Butanone	ND	NS
Trichloroethene	0.650 J	0.47
Tetrachloroethylene	0.250 J	1.3
Total Xylenes	ND	.026
cis–1,2–Dichloroethene	16	500
trans–1,2–Dichloroethene	0.640 J	0.19
Cyclohexane	ND	NS
Methylcyclohexane	ND	NS
Isopropylbenzene	ND	2.3

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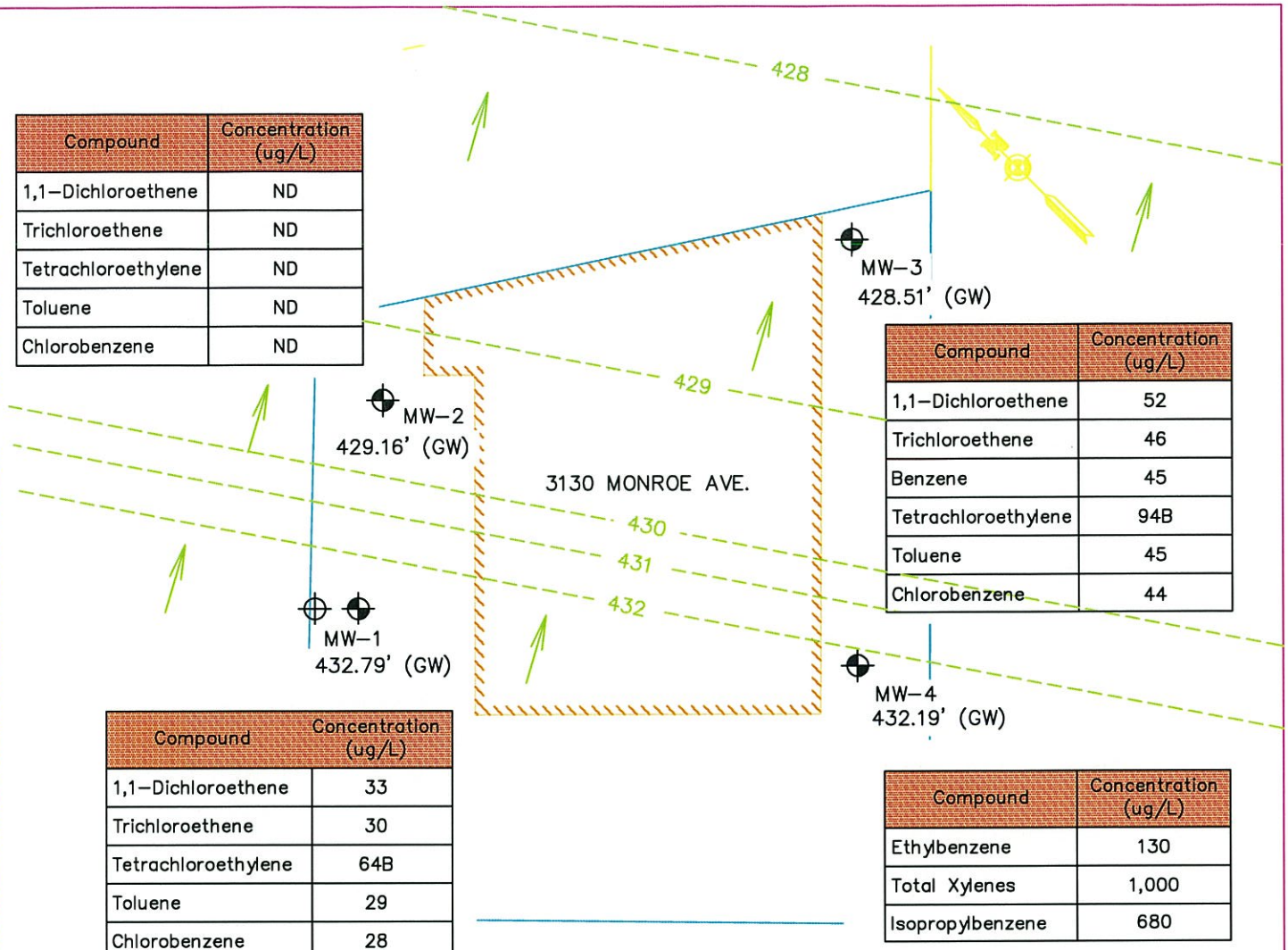
Project:	SPEEDY'S CLEANERS BCP FIGURE 5a SUB-SLAB SOIL SAMPLES OCTOBER, 2005	Scale: 1" 30' Date: 03-28-2012 PIC: John Caruso, P.E. PM: Ed Freeman, P.L.S.
Client:	SPEEDY'S CLEANERS SITE PITTSFORD, NEW YORK SITE NO. 8-28-109	Designer: R.D.C. Project No. 99000018.0015



Compound	Concentration (ug/L)
1,1-Dichloroethene	ND
Trichloroethene	ND
Tetrachloroethylene	ND
Toluene	ND
Chlorobenzene	ND

Compound	Concentration (ug/L)
1,1-Dichloroethene	52
Trichloroethene	46
Benzene	45
Tetrachloroethylene	94B
Toluene	45
Chlorobenzene	44

Compound	Concentration (ug/L)
1,1-Dichloroethene	33
Trichloroethene	30
Tetrachloroethylene	64B
Toluene	29
Chlorobenzene	28
Benzene	29

Compound	Concentration (ug/L)
Ethylbenzene	130
Total Xylenes	1,000
Isopropylbenzene	680

(GW) = GROUND WATER ELEVATION MEASURED

Compound	SCGs (ug/L)
1,1-Dichloroethene	5
Trichloroethene	5
Tetrachloroethylene	5
Toluene	5
Chlorobenzene	5
Benzene	2
Ethylbenzene	5
Isopropylbenzene	5

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Project:	SPEEDY'S CLEANERS BCP FIGURE 6 GROUNDWATER ELEVATION CONTOURS AND VOC RESULTS SEPTEMBER 9, 2005	Scale: 1" 30' Date: 03-28-2012 PIC: John Caruso, P.E. PM: Ed Freeman, P.L.S.
Client:	SPEEDY'S CLEANERS SITE PITTSFORD, NEW YORK SITE NO. 8-28-109	Designer: R.D.C. Project No. 99000018.0015

APPENDIX 1

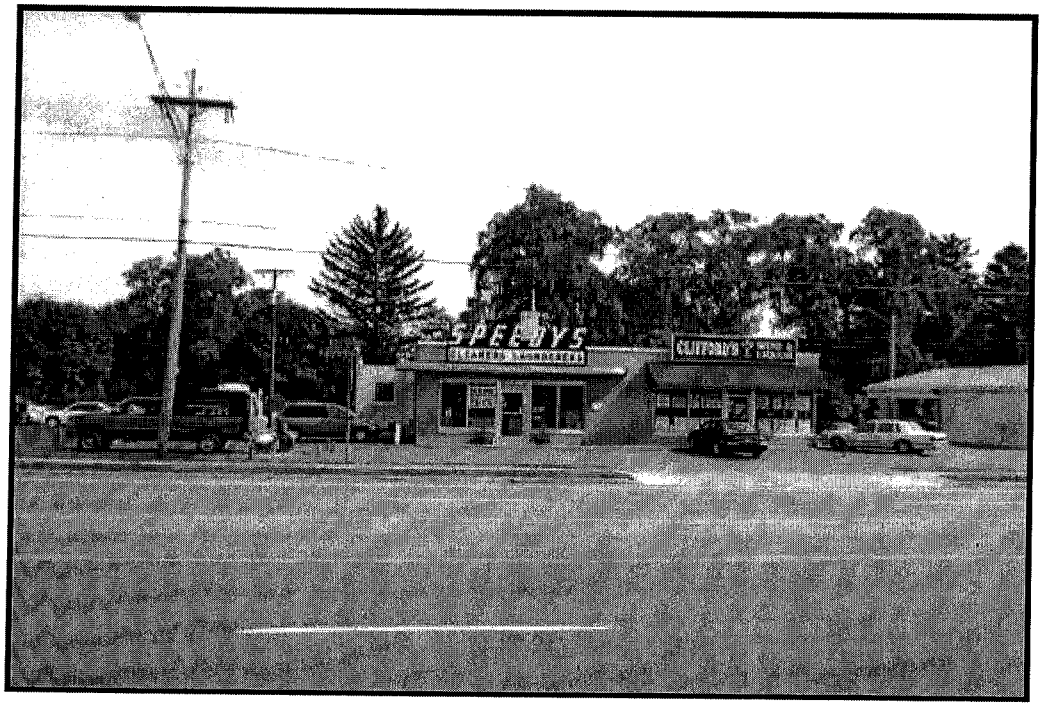
Harding Lawson Associates March 2003 Final
Preliminary Site Assessment Report

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Final
Preliminary Site Assessment Report

Speedy's Cleaners Site
Pittsford, New York
Site No. 8-28-109

Work Assignment No. D003826-06



March 2003

Prepared for:
New York State Department of
Environmental Conservation
Albany, New York

NYSDEC SUPERFUND CONTRACT
WORK ASSIGNMENT NO. D003826-06

FINAL
PRELIMINARY SITE ASSESSMENT REPORT

SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

SITE NO. 8-28-109

Submitted to:

New York State Department of Environmental Conservation
Albany, New York

Submitted by:

Harding Lawson Associates
Portland, Maine
Project Number 53499

March 2003

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

Submitted by:

Mark Stelmack, P.E.
Project Manager
Harding Lawson Associates

Approved by:

William J. Weber, P.E.
Program Manager
Harding Lawson Associates

This document meets standards prescribed in project planning documents and has been reviewed by qualified professionals.

Glenn Daukas, P.G.
Quality Control Reviewer

NYSDEC SUPERFUND CONTRACT
WORK ASSIGNMENT NO. D003826-06

FINAL
PRELIMINARY SITE ASSESSMENT REPORT

SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

SITE NO. 8-28-109

Submitted to:

New York State Department of Environmental Conservation
Albany, New York

Submitted by:

Harding Lawson Associates
Portland, Maine
Project Number 53499

March 2003

Submitted by:

Mark Stelmack, P.E.
Project Manager
Harding Lawson Associates

Approved by:

William J. Weber, P.E.
Program Manager
Harding Lawson Associates

This document meets standards prescribed in project planning documents and has been reviewed by qualified professionals.

Glenn Daukas, P.G.
Quality Control Reviewer

FINAL
PRELIMINARY SITE ASSESSMENT REPORT

SPEEDY'S CLEANERS SITE

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EXECUTIVE SUMMARY

The Speedy's Cleaners site (Site) is located at 3130 Monroe Avenue in the Town of Pittsford, Monroe County, New York. The Site, Site No. 8-28-109, is a hazardous waste site, currently classified by the New York State Department of Environmental Conservation (NYSDEC) as 2a. Insufficient evidence existed at the time of listing to determine whether wastes disposed of at the Site posed a significant threat to public health or the environment (New York State (NYS), 1998). Harding Lawson Associates (HLA) conducted field investigations as part of a Preliminary Site Assessment (PSA). The purpose of the PSA is to gather sufficient information to evaluate environmental problems present at a site. The PSA seeks to identify whether a source of waste is present at a site, determine if the waste poses a significant threat to human health or the environment, and evaluate migration routes to the surrounding environment through groundwater or surficial pathways.

The Site consists of the Speedy's Cleaners property and the Rochester Gas and Electric Company (RG&E) property. The Speedy's Cleaners property contains an approximately 4900 square-foot building that houses Speedy's Cleaners and Clifford's Wine and Liquor store. Speedy's Cleaners operated a dry cleaner at the location from 1966 to approximately 1993. Speedy's Cleaners currently runs a dry cleaning pick up and drop off service at the Site, but no dry cleaning is performed in the building. Roads, businesses, and a country club surround the Site. The Oak Hill Country Club lies to the north, just past the vacant RG&E property. Businesses lie to the northwest and southeast of the Site, as well as to the southwest, across Monroe Avenue.

Chlorinated solvents were detected in Site soil during a 1999 investigation of petroleum contamination from a leaking underground storage tank. Further investigations were conducted to determine fuel and solvent contaminant extent. The highest chlorinated solvent concentrations detected in soil in 1999 included tetrachlorethene (PCE) at a concentration of 748,000 micrograms per kilogram (µg/Kg) and trichloroethene (TCE) at a concentration of 5,409 µg/Kg (Paradigm Environmental Services, Inc. (Paradigm), 1999a); the NYSDEC soil cleanup objectives for PCE and TCE are 1,400 µg/Kg, and 700 µg/Kg, respectively (NYSDEC, 1994).

In May 1999 a groundwater sample was collected from 10 feet below ground surface in soil boring BH-9, located 10 feet east of the north corner of the Site building. Vinyl chloride, the only chlorinated solvent detected in the sample, was reported at a concentration of 1,217 micrograms per liter (µg/L); the NYS Class GA groundwater standard for vinyl chloride is 2 µg/L (Paradigm, 1999b).

To determine whether the chlorinated solvent contamination originated from the Site and is migrating off-site in groundwater, and to collect sufficient information to allow re-classification of the Site, HLA conducted the following tasks:

- completed a file review of the Site,
- conducted a geophysical survey at the Site,
- collected a groundwater sample from an existing well,
- collected 11 direct push soil samples from above the water table at nine locations,
- collected 12 groundwater samples at 10 locations,
- installed four microwells for the purpose of measuring groundwater table elevations,
- collected a surface water and sediment sample from three different locations downgradient from the Site,
- conducted a land survey of the Site.

Review of chemical and physical data developed during the PSA resulted in the following findings:

1. Evidence of hazardous waste use and disposal at the Site was documented.
2. PCE was detected in soil five feet northeast of the Speedy's Cleaners back door, and three feet below ground surface, at a concentration of 110,000 µg/Kg; the NYSDEC soil cleanup objective for PCE is 1,400 µg/Kg. Based on linear partitioning calculations, this PCE concentration suggests that little or no residual dense non aqueous phase liquid (DNAPL) exists at the site, and thus DNAPL is not an important source of contaminant mass. Reported PCE concentrations at this location diminish with increased depth.
3. Based on analyses of soil samples collected, PCE contamination in soil is concentrated around the northern corner of the Site building.
4. Chlorinated solvents were detected in groundwater samples collected from the Site at concentrations exceeding the NYS Class GA groundwater standards. Cis-1,2-dichloroethene (DCE), the chlorinated solvent detected at the highest concentration, was reported at a concentration of 64,000 µg/L; the NYS Class GA groundwater standard for DCE is 5 µg/L. Six other chlorinated solvents (PCE, TCE, trans-1,2-DCE, 1,1-DCE, vinyl chloride, and chloromethane) were detected in groundwater samples at concentrations above corresponding NYS Class GA groundwater standards.
5. Presence of high concentrations of PCE breakdown products indicates that biodegradation of PCE is occurring in the Site subsurface.
6. Fuel-related VOCs (toluene, ethylbenzene, m,p-xylene, and o-xylene) were detected in groundwater samples at concentrations up to 250 µg/L; the NYS Class GA groundwater standard for each of the fuel-related VOCs is 5 µg/L.

7. Migration of groundwater contaminants off-Site was documented during the PSA. PCE was reported at a concentration of 2,400 µg/L in a groundwater sample collected from the Oak Hill County Club property; the NYS Class GA groundwater standard for PCE is 5 µg/L. Four other chlorinated solvents (PCE, TCE, trans-1, 2-DCE, and vinyl chloride) were detected in the same sample at concentrations above corresponding NYS Class GA groundwater standards.
8. Interpretive groundwater flow is to the northeast, toward the Oak Hill Country Club.
9. No chlorinated solvents were detected in surface water or sediment samples collected down gradient from the Site.

1.0 INTRODUCTION

Harding Lawson Associates (HLA) is submitting this Preliminary Site Assessment (PSA) Report to the New York State Department of Environmental Conservation (NYSDEC). This PSA Report addresses work referenced in the Project Management Work Plan (PMWP) (HLA, 2001) for the Speedy's Cleaners site (Site) in Pittsford, New York (Figure 1-1). This PSA Report was prepared in response to Work Assignment No. D0003826-06, and in accordance with the requirements of the July 1997 Superfund Standby Contract No. D003826 between the NYSDEC and HLA.

The Site, Site No. 8-28-109, is a hazardous waste site, currently classified by the NYSDEC as 2a; insufficient information exists to determine whether wastes disposed of at the Site pose a significant threat to public health or the environment (New York State (NYS), 1998).

The purpose of the PSA is to provide information to be used by the NYSDEC to remove the Site from the Registry of Inactive Hazardous Waste Sites in New York State, or to classify the Site to one of the following categories:

Class 1	Hazardous waste sites presenting a significant threat to public health or the environment, as described in Title 6 of the New York Codes, Rules, and Regulations (NYCRR) Part 375 (NYS, 1998); the significant threat to the environment is causing, or presents an imminent danger of causing either irreversible or irreparable damage to the environment.
Class 2	Hazardous waste constitutes a significant threat to the environment, as described in NYCCR Part 375 (NYS, 1998).
Class 3	Hazardous waste sites not presenting a significant threat to public health or the environment, as described in NYCCR Part 375 (NYS, 1998).

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

- The existence of hazardous waste disposal at the Site, as defined in 6 NYCRR Part 371 (NYS, 1999a).
- The Site's significance with respect to the threat it poses to public health and the environment as defined in 6 NYCRR Part 375 (NYS, 1998).

To develop the reclassification data, HLA:

- completed a file review of the Site,
- conducted a geophysical survey at the Site,

- collected a groundwater sample from an existing well,
- collected 11 direct push soil samples from above the water table at nine locations,
- collected 12 groundwater samples at 10 locations,
- installed four microwells for the purpose of measuring groundwater table elevations,
- collected a surface water and sediment sample from three different locations downgradient of the Site,
- conducted a land survey of the Site.

This PSA Report represents culmination of work under Task 1: Review of Background Material and Preparation of PMWP (HLA, 2001), and Task 2: Site Field Investigation. During Task 1, HLA conducted a search of state and county Site records, and performed a Site inspection to develop information necessary for reclassification or delisting. The results are presented in Section 2.0 of this document. Task 1 activities did not develop adequate data on which to base a classification recommendation. Therefore, a field investigation was completed under Task 2. Section 3.0 of this document presents a detailed summary of work completed during the field investigation. Section 4.0 presents an assessment of the analytical results and field data collected. Section 5.0 presents investigation findings.

2.0 SUMMARY OF EXISTING DATA

On April 20, 2001, HLA personnel reviewed available records from the NYSDEC office in Albany, New York, and visited the Pittsford, New York town offices. HLA also collected Site information from the Speedy's Cleaners property owner in Pittsford, New York. The information was reviewed to support a Site classification, and to help prepare the scope of work for the PSA field investigations. The information collected from these sources is summarized below.

2.1 SITE DESCRIPTION

The Speedy's Cleaners site is located at 3130 Monroe Avenue in a commercial use area in the northeast corner of the Town of Pittsford, Monroe County, New York (Figure 1-1). The Site includes the Speedy's Cleaners property and the Rochester Gas and Electric Company (RG&E) property (Figure 2-1). The Speedy's Cleaners property encompasses 0.27 acres, and consists of a small paved lot and a 4,900 square-foot building housing Speedy's Cleaners and Clifford's Wine and Liquor store. The Speedy's Cleaners property is serviced by public water and sewer. Public water for the Town of Pittsford is supplied from Lake Ontario. The RG&E property is a former railroad bed that encompasses 0.11 acres; it consists of a level grassy area that drops off sharply to the north.

Roads, businesses, and a country club surround the Site. The Oak Hill Country Club lies to the north, just past the RG&E property. Businesses lie to the northwest and southeast of the Site as well as to the southwest, across Monroe Avenue. The Allendale Columbia School, a private nursery-to-12th grade school, is located approximately 0.8 miles to the north.

Site photographs are presented in Appendix A. Additional Site information is available on the NYSDEC Site Investigation Information Report Form presented in Appendix B, and on the United States Environmental Protection Agency (USEPA) Site Inspection Questionnaire 'Site Information' form, presented in Appendix C.

2.1.1 Topography

The Site is located in the Irondequoit Creek Valley, which runs north-south. The Site property is located at 435 feet above mean sea level (msl) and is relatively flat, except for the northern 30 feet of the property, where the elevation drops approximately ten feet. The surrounding area slopes from approximately 435 feet above msl at the Site to 400 feet above msl at an unnamed Class B stream, located 0.5 miles to the northeast. Land west of the Site rises to 555 feet above msl approximately 0.7 miles from the Site.

2.1.2 Climate

The climate of the area is characterized by moderately warm summers and cold winters. Mean monthly temperatures range from 24 degrees Fahrenheit (°F) in January to 70°F in July. Average annual precipitation is 32 inches. Average annual snowfall is 90 inches per year (National Climatic Data Center, 1999)

2.1.3 Surface Water Hydrology

Surface drainage from the Site generally follows the topography, flowing toward a small culvert located approximately 100 feet northeast of the Site. The culvert flows to an unnamed Class B stream and eventually into Allen Creek, located 0.8 mile to the north. Allen Creek eventually discharges into Lake Ontario approximately four miles from the Site.

2.1.4 Groundwater Hydrology

Lake Ontario is a local-to-subregional groundwater discharge area. Groundwater at the Site is interpreted to flow north towards Lake Ontario. Shallow groundwater may discharge into a small drainage basin located approximately 100 feet north of the Site.

According to the USGS national water resource tracking system, there are three private wells within one mile of the Site (Appendix C). The wells vary in depth from 48 to 100 feet below ground surface (bgs). HLA contacted Environmental Data Resources, Inc., the source of the information, and the USGS, but no information on the current use of the wells was available. The water supply for the Town of Pittsford is Lake Ontario.

2.1.5 Geology

Site soils consist primarily of lacustrine silts, sands, and clays overlaying glacial till (United States Geological Survey, 1989). Bedrock is expected to be between 100 and 150 feet bgs. Bedrock in the area consists primarily of Vernon Shale.

2.2 SITE HISTORY

The first building on the Site was constructed in approximately 1958 as a small animal hospital. Charles Speedy purchased the building in 1966. Mr. Speedy enlarged the building from approximately 3,500 square feet to 4,900 square feet, and started a dry cleaning business in the west side of the building. The title of the property was transferred to Demosthenes Speedy on April 12, 1979, then to D & L Realty, Inc. (owned by Dan Speedy), and finally to 3130 Monroe Avenue Associates, LLC on May 16, 1999. Speedy's Cleaners currently rents the west half of the building, although the business now is dry cleaning drop-off and pick-up, and no dry cleaning is conducted on the premises; the date when dry cleaning operations ceased is unknown. Based

on a fire marshal's report, it is believed that dry cleaning operations were still being conducted in 1993. The fire marshal's report, dated April 6,1993, indicates that the electric panel in the boiler room was obstructed by three 55-gallon drums of trichloroethene (TCE). The RG&E property is a former railroad bed currently occupied by overhead power lines.

2.3 PREVIOUS INVESTIGATIONS

In 1998, Day Environmental, Inc. (Day) performed an environmental assessment of the RG&E property for a prospective buyer. Four test borings were completed, and the soil sample having the highest reported detection using a photoionization detector (PID) was submitted for volatile organic compound (VOC) analysis. The sample was collected from two to four feet bgs in boring TB-2, near the Speedy's Cleaners vent pipes (Figure 2-1). PCE was detected at 10,500 micrograms per kilogram (µg/Kg), and TCE was detected at 1,275 µg/Kg in the soil sample; petroleum-related VOCs were also detected (Day, 1999). The vent pipes were located near the roof line and have since been removed.

The Site first came to the attention of the NYSDEC in March 1999 during the removal of an underground storage tank (UST) by Passero Associates, P.C. (Passero). The 1,000-gallon UST was used to store # 2 fuel oil. During the UST removal, petroleum-contaminated soil was encountered, and free product (fuel oil) was found seeping into the excavation (NYSDEC, 1999). The NYSDEC spill number for the Site is 9870611. Fourteen soil borings were completed in March and May 1999 to determine extent of contamination from the fuel oil spill, as well as potential chlorinated solvent contamination. The highest concentrations of chlorinated solvents were detected at a depth of 3-4 feet bgs in soil samples collected from boring BH-1, located near the northern corner of the building. Chlorinated solvents detected in BH-1 included PCE at a concentration of 748,000 µg/Kg, and TCE at a concentration of 5,409 µg/Kg; the NYSDEC soil cleanup objectives for PCE and TCE are 1,400 µg/Kg, and 700 µg/Kg, respectively (NYSDEC, 1994). (Paradigm Environmental Services, Inc (Paradigm), 1999a).

In May 1999 a groundwater sample was collected from 10 feet bgs in soil boring BH-9, located 10 feet northwest of the north corner of the Site building (Figure 2-1). Vinyl chloride, the only chlorinated solvent detected in the sample, was reported at a concentration of 1,217 micrograms per liter (µg/L); the NYS Class GA groundwater standard for vinyl chloride is 2 µg/L (Paradigm, 1999b). No other groundwater samples were collected near the rear of the building. To determine the extent of VOC contamination below the building, three borings were completed through the floor of the former dry cleaning area. Soil samples were collected from between one-and-a-half and three feet bgs (Zamiarski, 2001). PCE was reported in all three borings, ranging in concentration from 53 to 81 µg/Kg (Paradigm, 1999b). In July 1999, soil and water samples were collected from six additional soil borings completed on the west side of the building. No chlorinated solvents were detected in any of the samples.

To remediate petroleum-contaminated soil, Passero excavated soil on the northwest side of the building in the vicinity of the former UST. Four injection wells were installed in October and November 1999 as part of a bioremediation program (Zamiarski, 1999). Passero injected a 55-gallon drum of "bugs" supplied by Lambda Bioremediation into the injection wells for in-situ bioremediation of the remaining petroleum contaminated soil (Zamiarski, 2001). HLA was not able to find information about the injection/monitoring wells installed by Passero. Passero collected groundwater samples for VOCs and Semi VOCs (USEPA methods 8260, and 8270, respectively) from three wells at the Site on October 21, 2001 (the wells are located north and northeast of the former UST location [one of the three, PA-1, is identified on Figure 2-1]). Cis-1,2-dichloroethene (DCE) (7 µg/L), vinyl chloride (6 µg/L), and Benzene (2 µg/L) were the only compounds detected in the samples from the three wells at concentrations greater than the NYS Class GA groundwater standards (Zamiarski, 2003). Based on groundwater sample analytical results and post excavation soil sample results, the NYSDEC Spills department determined the Site had been remediated of petroleum contamination, and the file was closed on February 15, 2002 (Zamiarski, 2003).

2.4 SITE WALKOVER

On April 18, 2001 HLA, the NYSDEC, and the Site property owner conducted a walkover of the Speedy's Cleaners site.

SITE WALKOVER ATTENDEES

NAME	TITLE	AFFILIATION/TELEPHONE
Charles Staples	Site Manager	Harding Lawson Associates 207-775-5401
Joseph White	Environmental Engineer NYSDEC Project Manager	NYSDEC Division of Environmental Remediation, Albany 518-402-9564
Greg MacLean	Environmental Engineer Region 8	NYSDEC Division of Environmental Remediation 716-226-5356
Chris Williams	Property Owner	3130 Monroe Ave LLC. 716-586-3060

The walkover consisted of viewing the Speedy's Cleaners property, the RG&E property, and the Oak Hill Country Club to assess possible contamination sources and the logistical concerns for the field program. HLA personnel documented the walkover with photographs.

No definitive sources of contamination were observed, although detailed inspections of potential sources including Site soil and potential dry wells were not conducted during the walkover. HLA gathered additional information for the purpose of identifying potential sources during Task 2.

2.5 SUMMARY OF DATA RECORDS SEARCH AND ASSESSMENT FINDINGS

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

Results of sampling and analysis performed at the Site indicated the presence of chlorinated solvents, including PCE and TCE in Site soil, and vinyl chloride in Site groundwater. Spent chlorinated solvents not originating from a household sources, including vinyl chloride, PCE, and TCE are included on both the USEPA's and the NYSDEC's lists of hazardous wastes. Under 6 NYCRR Part 371.4(a)(1), these spent solvents constitute hazardous waste from non-specified sources. Although the presence of chlorinated solvents in Site groundwater and soil was documented in historic records reviewed during Task 1, a contaminant source area was not definitively identified. In addition, it is not known whether chlorinated solvents detected in Site media are migrating off-site.

Data collected by Passero in 1999 indicated concentrations of vinyl chloride in Site groundwater exceeding the NYS Class GA water quality standards in 6 NYCRR Parts 700-705 (NYS, 1999b). Contravention of ambient groundwater standards is one method of determining whether a significant threat to the environment exists (NYS, 1998).

Significant threat was confirmed at the Site during Task 1 due to the exceedance of groundwater standards for chlorinated solvents at the Site; however, the source of contamination was not identified. A field investigation was performed during Task 2 to collect data necessary to determine if hazardous waste was disposed on-site, to determine if contamination is migrating offsite in groundwater, and to provide sufficient information to allow the NYSDEC to reclassify the Site.

3.0 FIELD INVESTIGATION

To classify the Site, the NYSDEC requires data documenting hazardous waste disposal as set forth in 6 NYCRR Part 371, and the potential significant threat to human health and the environment as defined by 6 NYCRR Part 375. Because data necessary to determine if the contaminants present at the Site are migrating off-site and pose a potential significant threat to human health and the environment were not available in federal and state files reviewed during Task 1, the Task 2 field investigation described below was performed. The objective of Task 2 activities was to determine, if possible, whether VOCs detected in Site soil and groundwater originate from the Site, and if the contaminants are migrating offsite.

3.1 TASK 2 - FIELD INVESTIGATIONS

Field investigations were conducted on October 10, 2001 and from September 25 to 27, 2002. The field investigations included a geophysical survey, direct push soil and groundwater sampling, surface water and sediment sampling, microwell installation, and a land survey.

The following subsections describe the activities conducted during the field investigation. Fieldwork was conducted in accordance with specifications presented in the Quality Assurance Program Plan (ABB-Environmental Services, 1995) and the site-specific Quality Assurance Project Plan (HLA, 2001). Results of the field investigations are presented in Section 4.0.

Buck Environmental Laboratories Inc. performed on-site analytical analysis. To verify accuracy and quality of the on-site analytical data, confirmatory split samples were sent to an off-site analytical laboratory. H2M Labs, Inc., a New York State Department of Health-approved laboratory, performed off-site analyses in accordance with the NYSDEC Analytical Services Protocols (ASP) (NYSDEC, 1995).

3.1.1 Geophysical Survey

HLA conducted a geophysical survey at the Site (Figure 3-1 and Appendix D) on October 10, 2001. Geophysical data was used to screen for the presence or absence of subsurface structures such as abandoned UST's, potential dry wells or french drains, septic systems, and associated appurtenances. Two geophysical techniques were employed at the Site and include the following:

- ElectroMagnetic (EM) - 61 Time Domain Metal Detection
- Ground-penetrating Radar (GPR) (GSSI System III)

A high-resolution metal detection survey was conducted using a Geonics EM-61. The EM-61 was used to screen for subsurface metallic objects (i.e., UST's, drums, cast iron piping, etc.) A GPR survey was completed using a GSSI System III GPR unit equipped with a 500-megahertz transducer. GPR data was used to further characterize observed EM-61 anomalies and to screen

for the presence of piping or other subsurface structures. Additionally, GPR was used to clear proposed soil borings of subsurface structures and possible utilities prior to clearance by Dig-Safely. The Geonics EM-31 Terrain Conductivity Meter could not be used to profile changes in ground conductivity associated with potential leachfields or other conductive materials. This was due to the presence of features causing signal interference such as overhead power lines, cars in an adjacent lot, fencing, and proximity of the area surveyed to the building housing Speedy's Cleaners.

Prior to conducting EM-61 and GPR profiling, a 10-foot by 10-foot survey grid was established as shown within the hatched area of Figure 3-1. Blaze orange pin flags and marking paint were used to identify grid nodes. EM-61 traverses were spaced 5 feet apart and data was collected every 0.63 feet along each traverse. GPR profiles were collected in a screening fashion with reference to the survey grid. Selected EM-61 response anomalies, a floor drain line, and proposed exploration locations were profiled in a screening fashion where no formal grid was established.

3.1.2 Surface Water and Sediment Sampling

To characterize environmental conditions downgradient of the Site, three locations were chosen for surface water and sediment sampling (Figure 3-2). The first location is the small pond located approximately 100 feet north of the Site. Samples were collected from the edge of the pond closest to the Site, approximately 15 feet from the pond outflow. The pond is spring fed and flows approximately 11 months of the year (Latshaw, 2001). Because the outflow from the pond and the storm drain that runs east of the Site are closed culverts (Figure 2-1), the second surface water/sediment sampling location was at the Class B stream located 0.5 miles northeast of the Site. The sample was collected near the outfall of the culvert located just east and north of the Site. The sample was collected approximately 1,000 feet upstream of the intake for Oak Hill Country Club's irrigation water. The third surface water/sediment sample location is the Class B stream; the sample collected at this location is considered a background sample. The sample was collected 50 feet upstream of the sample collected by the culvert outfall. At the three locations, surface water samples were collected first, followed by sediment samples. Surface water samples were analyzed for VOCs in the on-site analytical laboratory using the USEPA SW-846 modified Method 8021. The sediment samples were sent to the off-site analytical laboratory and analyzed for Target Compound List (TCL) VOCs via NYSDEC ASP Method 95-1, and total organic carbon (TOC) via USEPA Method 415.1. Off-site laboratory analysis included Category B deliverables. Category B specifications represent the most comprehensive data packages that the NYSDEC has established for non-superfund methods. Level B deliverables include sample shipment and custody records, quality control summary reports, sample result reports, and all associated raw data generated at the lab used to document the analysis. Analytical results are presented in section 4.0.

3.1.3 Pond Piezometer/Wellpoint Installation

Because of the dense till encountered below the pond, the pond piezometers/wellpoints described in the PMWP could not be installed.

3.1.4 Groundwater Monitoring Well Sampling

One grab sample was collected from the existing two-inch monitoring well (PA-1) located on the northwest side of the Site property (Figure 2-1). This well was constructed by Passero in 1999 and was 12.5 feet deep. Due to lack of recharge and low volume of water (only one foot of water was present in the well), one well volume was purged and one set of groundwater parameters including water level, turbidity, temperature, dissolved oxygen, specific conductance and pH were recorded. The sample was collected after the well recharge, and the sample was analyzed by the on-site analytical laboratory for TCL VOCs using USEPA SW-846 modified Method 8021.

3.1.5 Geoprobe Borings and Sampling

Soil and groundwater investigation activities included completion of geoprobe borings, collection and analyses of groundwater and soil samples, and installation of microwells (Figure 3-3). The objective was to provide groundwater analyses for comparison to NYS Class GA Groundwater Quality Standards set forth under 6 NYCRR Parts 700-706 (NYS, 1999b), and to assist the NYSDEC in evaluating significant threat to public health and the environment as defined by 6 NYCRR Part 375 (NYS, 1998). Soil sample analytical results were used to assess whether hazardous waste constituents are present in Site soil, to compare soil analytical results to the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) No. 94-4046 (NYSDEC, 1994), and to confirm a source of chlorinated solvents. The geoprobe sampling was conducted over a three-day period.

HLA used a geoprobe sampling device to collect groundwater and soil samples. The geoprobe pushes and/or hammers rods and probe tips into the subsurface for sample collection. HLA worked closely with the NYSDEC, the Site owner, and utility companies to obtain access to the exploration locations.

Geoprobe borings were identified as BS for soil boring and BW for water boring. When both soil and groundwater samples from the same boring are discussed in this report, the identifier BS/BW is used. HLA completed ten borings (BS/BW-1 through BW-10) from September 25 to September 27, 2002, including the installation of four microwells (MW-1 through MW-4) (Figure 3-3). A total of 12 groundwater samples and 11 soil samples were collected. Samples were analyzed on-site in a field analytical laboratory, with 10% of the samples split for off-site analytical laboratory confirmatory analyses. Analytical results were available in real-time, and the data was used to determine the location of subsequent borings.

3.1.5.1 Soil Sampling. Soil samples were collected using a four-foot long 2-inch diameter core sampler with an acrylic liner to obtain discrete subsurface soil samples from nine of the ten borings (BS-1 through BS-9). Soil core sample tubes were collected continuously from the ground surface to the top of the groundwater table. PID headspace readings were used to screen soil for the presence of VOCs upon opening of the soil sample collection tube. Soils were described using the Unified Soil Classification System. The soil description and classification, VOC headspace reading, and boring observations were recorded on the Test Boring Logs, located in Appendix E. Considering PID readings and physical evidence of potential contamination such as color or odor, one soil sample was collected from just above the water table in all borings, except BS-3, BS-7, and BS-9, where two samples were collected from each boring.

3.1.5.2 Groundwater Sampling. Groundwater samples were collected from 10 borings (BW-1 through BW-10) using a small diameter stainless steel wire wound screen that was exposed to the aquifer after being pushed to the desired depth interval. A peristaltic pump was used to collect discrete groundwater samples. At locations where adequate water volumes were present, one set of groundwater parameters including temperature, conductivity, pH, and turbidity were collected before sampling.

Due to the low porosity of the soil, only one groundwater sample was collected from each boring, except borings BW-3 and BW-7, where two samples were collected. An apparent till layer prevented the collection of deeper water samples. Groundwater Field Sample Data Records are available in Appendix E. The direct push sampling technique resulted in turbid groundwater samples

3.1.5.3 Sample Analysis. Geoprobe groundwater and soil samples were analyzed in an on-site analytical laboratory. The samples were analyzed for VOCs using USEPA SW-846 modified Method 8021. Of the soil and groundwater samples collected for on-site field analysis 10% were split-sampled for off-site analytical laboratory confirmatory analysis. Samples selected for confirmatory off-site laboratory analysis were analyzed for TCL VOCs using NYSDEC ASP methods 95-4 and 95-1, respectively. Off-site laboratory analyses were reported using Category B specifications. Analytical results are presented in Section 4.0.

3.1.6 Microwell Installation

Four of the borings (BS/BW-1, BS/BW-2, BS/BW-6, and BS/BW-7) were fitted with one-inch inside diameter microwells (Figure 3-3). Microwell MW-1 was installed in the parking lot near the southeastern property boundary. Microwell MW-2 was installed in the pavement near the west corner of the site. The third microwell, MW-3, was completed near the northern corner of the Site building, at the approximate location of the highest contamination detected during prior sampling activities. The fourth microwell, MW-4, was installed north of the Site on the Oak Hill Country Club property, near the property line with the RG&E property.

Microwells were installed after soil and groundwater samples were collected from each boring. The microwells were installed as piezometers for the primary purpose of collecting water level measurements. One groundwater sample was collected from microwell MW-3 due to the poor flow in the associated geoprobe boring (BW-7). Microwells were constructed with one-inch inside diameter schedule 40 polyvinyl chloride, with 10-foot lengths of 0.02-inch machine slotted microwell screens. Due to low groundwater surface elevation, microwell MW-4 was set with a six-foot long screen. Microwell screens were covered with a polypropylene "sock" to prevent sediment from entering the microwells. Microwell screens were set with between 0.5 and 5 feet of the total screen length located above the water table to determine water table elevations and create a potentiometric surface map. Microwells were constructed with a # 0 sand pack to 3 feet above the screen, a three foot bentonite seal above the sand pack and a bentonite grout backfill to the ground surface. The microwells were completed with a screw cap and a four-inch flush mount cover. Two of the microwells were placed in the blacktop. The microwells were developed for twenty minutes with a peristaltic pump to clean the screen and determine if the microwells were conductive with groundwater.

3.1.7 Water Level Survey

Water levels were measured on September 26 and September 27, 2002. Heavy rains began during the evening of September 26 and continued all day September 27. The two rounds consisted of measuring water levels at the four new microwells, one existing well, and the small pond. Well caps were opened to allow water in the wells to equilibrate to atmospheric pressure. Depth to water was measured with a conductivity probe from the top of well risers, and from the top of the pond outflow riser. Groundwater table elevations were calculated from the well riser elevations (see subsection 3.1.8).

3.1.8 Site Survey

Upon completion of sampling activities, HLA's survey subcontractor surveyed the Site and microwell locations. A map of the Site indicating locations of microwells, the monitoring well, and selected Site structures was prepared (Appendix F). Vertical elevation accuracy was 0.01 foot and horizontal accuracy was 0.1 foot. Horizontal positions were tied into the NYS Plane Coordinate System. Vertical elevations were tied to msl, and referenced to the 1929 North National Geodetic Vertical Datum. Surveyed items included:

- Horizontal locations of four new microwells and one existing well;
- Vertical elevations of four new microwells and one existing well, including top of riser, top of protective casing, and ground surface.

4.0 DATA ASSESSMENT

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

4.1 GEOPHYSICAL SURVEY

The extent of the geophysical survey is shown in the shaded area of Figure 3-1. Appendix D contains figures of representative geophysical data. Figure D-1 shows EM-61 differential response results in millivolts. EM-61 data do not indicate the presence of large metallic objects or debris. EM-61 response anomalies observed in the data set are high amplitude, single-point anomalies attributable to subsurface groundwater monitoring wellheads, an observed railway survey pin, and the base of a utility pole guy wire. One of the anomalies could not be attributed to obvious surface metals or buried wellheads. The unattributable anomaly was detected directly behind Speedy's at location 500N, 560E (Figure D-1) of the grid and was marked on the ground with blaze orange paint and a blaze orange pin flag for reference. GPR profiling over the anomaly showed the presence of a very subtle anomaly approximately 1 to 1.5 feet bgs (Figure D-2).

A floor drain inside the back portion of the building was also investigated (hatched area in building shown in Figure 3-1). A pipe snake was inserted into the drain in an attempt to trace the discharge point of associated piping. The pipe appeared to be blocked with visually apparent paper and lint at the first pipe elbow, located approximately 1 foot below the floor surface. The relative locations of the floor drain and the unattributable anomaly suggest they may be physically connected. The floor drain line appeared to run perpendicular to the northeast wall of the building toward the anomaly (Figure D-1).

Further GPR profiling was conducted along the back portion of the Site building to locate possible piping leading away from the facility toward possible abandoned septic fields, discharge pipes, or dry well type structures. Classic parabolic signatures typically indicating the presence of pipe structures were not observed in GPR data collected along the rear of the building.

GPR profiling was also conducted over the former location of a fuel oil tank. The geophysical investigation did not reveal the presence of UST's, buried drums, or metal piping in the survey area. The unattributable metallic object profiled at 500N, 560E would need to be uncovered with hand tools or a small excavator in order to determine its identity. The geophysical data does not indicate the anomaly is representative of a buried UST, but could be due to the presence of a man-way cover associated with a potential dry well.

4.2 SOIL AND GROUNDWATER ANALYTICAL RESULTS

Soil and groundwater analytical results are compared to appropriate standards or guidelines. Reported concentrations of individual analytes indicating contravention of standards or guidelines are summarized below, and noted on Tables 4-1 and 4-2. The tables were assembled after the on-site and off-site analytical laboratory data comparison was completed and present only contaminants detected above the project quantitative limits. The tables present both on-site and off-site analytical laboratory data.

A Data Usability Summary Report was completed in accordance with the NYSDEC's Guidance for the Development of Data Usability Summary Reports (NYSDEC, 1997). This report and complete analytical results are presented in Appendix G.

For purposes of analytical interpretation, some of the data was qualified with a J. Compounds were qualified J if the concentration listed was an estimated value, which was less than the specified minimum detection limit but greater than zero. Compounds qualified J were analyzed for and determined to be present in the sample, and the mass spectrum of the compound met the identification criteria of the method.

Analytical results were compared to the standards or guidelines described below.

Soil Samples. Analytical results were compared to the Recommended Soil Cleanup Objectives in the NYSDEC TAGM No. 94-4046 (NYSDEC, 1994).

Groundwater Samples. Analytical results were compared to: (1) the NYS Class GA Groundwater Quality Standards from 6 NYCRR Parts 700-706 (NYS, 1999b) or, for those VOCs having no Class GA standard, (2) the NYS Class GA Groundwater Quality Guidance Values from the Division of Water Technical and Operational Guidance Series 1.1.1 "Ambient Water Quality Standards and Guidance Values" (NYSDEC, 1998).

4.2.1 Data Comparability

This section presents a comparison between VOC analytical results from the on-site and off-site laboratories. A more detailed discussion of split-sample results is presented in Appendix G.

4.2.1.1 Soil Sample Comparability. Of the 11 soil samples collected for on-site VOC analysis, one split sample from BS-7 was sent to the off-site analytical laboratory for confirmatory analysis. The split sample results showed agreement for the absence of contamination at the project reporting limits.

4.2.1.2 Groundwater Sample Comparability. Of the 13 samples collected for on-site VOC analysis, three split samples were sent to the off-site analytical laboratory for confirmatory analysis (from BW-1, BW-6, and BW-7). All samples showed good correlation with the detection of target compounds. The average relative percent difference of the detected analytes was 23 percent, indicating good quantitative agreement between the laboratories. Although high concentrations of target VOCs were detected in both the on-site and off-site analytical laboratory results, low concentrations of VOCs were detected in two of the off-site samples, but not in the corresponding on-site samples. These low concentration VOCs were detected at concentrations below the on-site analytical laboratory project quantitative limit. This is not considered significant, because high concentrations of target compounds were detected in the two off-site and on-site samples.

4.2.2 Soil Sample Results

A summary of target VOCs detected in soil samples is presented in Table 4-1 and on Figure 4-1. Table 4-1 presents hits only on-site and off-site analytical laboratory results.

PCE was detected in five samples from four borings (BS-4, BS-7, BS-8, and BS-9) at concentrations above the NYSDEC Soil Cleanup Objectives. Concentrations ranged from 4,200 µg/Kg (BS-8) to 110,000 µg/Kg (BS-9); the Soil Cleanup Objective for PCE is 1,400 µg/Kg. These borings are located north and east of the northern corner of the Site building. Relatively low concentrations of fuel related compounds were also detected in soil samples from two of the borings (BS-5 and BS-7). Non-target hydrocarbons were also noted on the instrument printouts (chromatograms) generated to document the VOC target compound analyses from several of the borings, but the exact compounds could not be identified or quantified from the chromatograms. These compounds are likely related to fuels, or the possible presence of Stoddard solvent (a common dry cleaning solvent).

To evaluate whether dense non-aqueous phase liquid (DNAPL) might be present in Site soil, linear partitioning calculations were performed with reasonable soil parameter estimates (Appendix H). Based on these calculations, DNAPL does not appear to be an important component of contaminant mass in the source area, considering the maximum reported concentration of 110,000 µg/Kg in Site soil. The calculation for the derivation of soil saturation limit suggests that a threshold PCE concentration for DNAPL presence is near 120,000 µg/Kg. If the fraction of organic carbon was higher than the estimate used in the calculation, more of the contaminant mass would partition to the soil and the threshold PCE concentrations for DNAPL presence would be higher.

4.2.3 Groundwater Sample Results

A summary of target VOCs detected in groundwater samples is presented in Table 4-2 and on Figure 4-2. Table 4-2 presents hits only on-site and off-site analytical laboratory results.

PCE was detected in groundwater samples collected from eight of the 10 borings. Concentrations ranged from 3.9 J µg/L (BW-3) to 5900 µg/L (BW-4). Concentrations in samples collected from seven of the borings (BW-4 through BW-10), exceeded the NYS Class GA groundwater standard of 5 µg/L (Figure 4-1).

Concentrations of analytes other than PCE were detected at concentrations above the NYS Class GA groundwater standards in groundwater samples collected from seven of the ten borings. The highest concentrations detected for analytes other than PCE were detected in the sample from boring BW-9. Analytes detected in boring BW-9, and corresponding NYS Class GA Groundwater standards are listed below.

Location BW-9		
Parameter	Standard (µg/L)	Result (µg/L)
Tetrachloroethene	5	483
Trichloroethene	5	580
cis-1,2-Dichloroethene	5	64,000
trans-1,2-Dichloroethene	5	580
1,1-Dichloroethene	5	80
Vinyl chloride	2	9,200
Toluene	5	46
Ethylbenzene	5	250
m,p-Xylene	5	170
o-Xylene	5	140

Reported concentrations of analytes detected in groundwater samples collected west (PA-1), southwest (BW-2), and southeast (BW-1) of the Site building were less than the NYS Class GA groundwater standards. Vinyl chloride was the only analyte detected (2.4 µg/L) above the NYS Class GA groundwater standard (2 µg/L) in the sample collected from boring BW-3, located east of the Site building.

The highest concentrations of VOCs detected in shallow groundwater occur near the northern corner of the Site building. Contamination in groundwater appears to be migrating off the Site. Six of the analytes detected in the sample collected from boring BW-6, located on the Oak Hill Country Club property, exceeded the NYS Class GA groundwater standards. Results for this sample are listed below:

Location BW-6 Parameter	Standard (µg/L)	Result (µg/L)
Tetrachloroethene	5	2400
Trichloroethene	5	350
cis-1,2-Dichloroethene	5	2700
trans-1,2-Dichloroethene	5	31
1,1-Dichloroethene	5	5
Vinyl chloride	2	1200

Considering the high concentrations of PCE degradation products (PCE ? TCE ? cis-1,2-DCE ? vinyl chloride), it appears reductive de-chlorination of the PCE is actively occurring. The petroleum hydrocarbon plume from the fuel oil spill appears to have migrated into the chlorinated solvent plume. Anaerobic conditions resulting from degradation of hydrocarbons are most likely contributing to the reductive degradation, allowing breakdown of the chlorinated solvents. Because cis-1,2-DCE and vinyl chloride are less readily degraded under reducing conditions, net concentrations of these two compounds have apparently increased in the aquifer. As more oxygen becomes available in groundwater further downgradient of the Site, it is expected that these compounds would more rapidly degrade.

Due to the high turbidity of the groundwater samples, analytical results may include concentrations of solvents sorbed to the soil matrix, and may not give an absolute quantification of dissolved constituents.

4.3 SURFACE WATER AND SEDIMENT SAMPLE RESULTS

No VOCs were detected in the three surface water or sediment samples collected. Surface water results are presented in Table 4-3; sediment sample results are presented in Table 4-4.

4.4 POTENTIOMETRIC SURFACE MAP

Well and pond survey and depth to water measurements from September 26, 2002 were used to create a potentiometric surface map (Figure 4-2). Microwell survey and water elevation data are presented in Table 4-5. To preclude introduction of possibly false high water levels caused by heavy rains during the evening of September 26 and day of September 27, groundwater measurements collected on September 27, 2002 were not used for contouring groundwater data. Measured groundwater elevations on September 26 varied from a high of 433.24 feet above msl southwest of the Site buildings, to a low of 427.13 feet above msl at the golf course pond. Interpreted groundwater surface contours indicate that groundwater flows to the northeast. Because MW-7 was located adjacent to the public sewer lines, groundwater levels in MW-2 may be artificially high due to the presence of localized drainage in the gravel trenches of the utility lines.

5.0 INVESTIGATION FINDINGS

Review of chemical and physical data developed during the PSA resulted in the following findings:

1. Evidence of hazardous waste use and disposal at the Site was documented.
2. PCE was detected in soil five feet northeast of Speedy's Cleaners back door, and three feet bgs, at a concentration of 110,000 µg/Kg; the NYSDEC soil cleanup objective for PCE is 1,400 µg/Kg. Based on linear partitioning calculations, this PCE concentration suggests that little or no residual DNAPL is present, and thus DNAPL is not an important source of contaminant mass. The calculations indicate that the majority of the PCE mass is sorbed to the soil matrix. Reported PCE concentrations at this location diminish with increasing depth.
3. Based on soil samples collected, PCE contamination in soil is concentrated around the northern corner of the Site building.
4. Chlorinated solvents were detected in groundwater samples collected from the Site at concentrations in exceedence of the NYS Class GA groundwater standards. Cis-1,2- DCE, the chlorinated solvent detected at the highest concentration, was reported at a concentration of 64,000 µg/L; the NYS Class GA groundwater standard for DCE is 5 µg/L. Six other chlorinated solvents (PCE, TCE, trans-1,2-DCE, 1,1-DCE, vinyl chloride, and chloromethane) were detected in groundwater samples at concentrations above corresponding NYS Class GA groundwater standards.
5. Presence of high concentrations of PCE breakdown products indicates that biodegradation of PCE in the Site subsurface is occurring.
6. Fuel-related VOCs (toluene, ethylbenzene, m,p-xylene, and o-xylene) were detected in groundwater samples at concentrations up to 250 µg/L; the NYS Class GA groundwater standard for each of the fuel-related VOCs is 5 µg/L.
7. Migration of groundwater contaminants off-Site was documented during the PSA. PCE was reported at a concentration of 2,400 µg/L in a groundwater sample collected from the Oak Hill County Club property; the NYS Class GA groundwater standard for PCE is 5 µg/L. Four other chlorinated solvents (PCE, TCE, trans-1,2-DCE, and vinyl chloride) were detected in the same sample at concentrations above the corresponding NYS Class GA groundwater standard.
8. Interpretive groundwater flow is to the northeast, toward the Oak Hill Country Club.
9. No chlorinated solvents were detected in surface water or sediment samples collected down gradient from the Site.

ASP	Analytical Services Protocol
bgs	below ground surface
Day	Day Environmental, Inc.
DCE	dichloroethene
DNAPL	dense non-aqueous phase liquid
EM	Electromagnetic Survey
°F	degrees Fahrenheit
GPR	ground penetrating radar
HLA	Harding Lawson Associates
MS/MSD	matrix spike/matrix spike duplicate
msl	mean sea level
NYCRR	New York Codes, Rules, and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
Paradigm	Paradigm Environmental Services
Passero	Passero Associates, P.C.
PCE	tetrachloroethene
PID	photoionization detector
PMWP	Project Management Work Plan
PQL	Practical Quantitation Limit
PSA	Preliminary Site Assessment
QA	Quality Assurance
QAPP	Quality Assurance Program Plan
QAPjP	Quality Assurance Project Plan
QC	Quality Control
RG&E	Rochester Gas and Electric
RPD	relative percent difference
Site	Speedy's Cleaners Site
TAGM	Technical and Administrative Guidance Memoranda
TCE	trichloroethene

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

TCL	Target Compound List
TOC	total organic carbon
µg/Kg	micrograms per kilogram
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

ABB Environmental Services, 1995. *Program Quality Assurance Program Plan*. Prepared for the New York State Department of Environmental Conservation, Albany, New York. June 1995.

Harding Lawson Associates (HLA), 2001. Project Management Work Plan, Volume II of IV, Work Assignment No. D003826-06. Prepared by Harding Lawson Associates for the New York State Department of Environmental Conservation. August 2001.

Day Environmental, Inc. (Day) 1999. Letter from Day Environmental, Inc. to Mr. Sam Buck, RE: Modified Transaction Screen for property adjacent to 3122 Monroe Avenue, Pittsford, NY. January 7, 1999.

Latshaw, Paul 2001. Interview with Paul Latshaw, Manager for golf courses and grounds for the Oak Hill Country Club. Conducted on April 20, 2001.

National Climactic Data Center (NCDC), 1999. Comparative Climactic Data for the United States through 1998. June 22, 1999.

New York State (NYS), 1999a. *New York Codes, Rules, and Regulations, Title 6, Part 371-Identification and Listing of Hazardous Wastes*. Amended November 1999.

New York State (NYS), 1999b. *New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards*. Amended August 1999.

New York State (NYS), 1998. *New York Codes, Rules, and Regulations, Title 6, Part 375-Inactive Hazardous Waste Disposal Sites Remedial Program.* Amended January 1998.

New York State Department of Environmental Conservation (NYSDEC), 1999. NYSDEC Spill Report Form for Spill # 9870611, completed by Arpad Kolozvarsky on May 10, 1999.

New York State Department of Environmental Conservation (NYSDEC), 1998. Division of Water Technical and Operational Guidance Series (TOGS)(1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. October 1998 (revised).

New York State Department of Environmental Conservation (NYSDEC), 1997. "Guidance for the Development of Data Usability Reports"; Division of Environmental Remediation; September 1997.

New York State Department of Environmental Conservation (NYSDEC), 1995. *"Analytical Services Protocols"*; 10/95 Edition; October 1995.

REFERENCES

New York State Department of Environmental Conservation (NYSDEC), 1994. Revised Technical and Administrative Guidance Memorandum HWR 94-4046: Determination of Soil Cleanup Objectives and Cleanup Levels. January 1994.

Paradigm Environmental Services, P.C. (Paradigm) 1999a. Analytical results from samples analyzed on April 1st and 2nd, 1999.

Paradigm Environmental Services, P.C. (Paradigm) 1999b. Analytical results from samples analyzed from May 19th to 21st, 1999.

United States Geological Survey 1989. Glacial History and Geohydrology of the Irondequoit Creek Valley, Monroe County, New York. 1989.

Zamiarski, Mike 1999. NYSDEC Spill Inspection Narrative; completed on October 22nd and 28th, 1999.

Zamiarski, Mike 2001. Telephone discussions with Mike Zamiarski, of the NYSDEC Region 8 Spills Response, on April 12, 2001.

Zamiarski, Mike 2003. Telephone discussions with Mike Zamiarski, of the NYSDEC Region 8 Spills Response, on February 12, 2003.

APPENDIX A

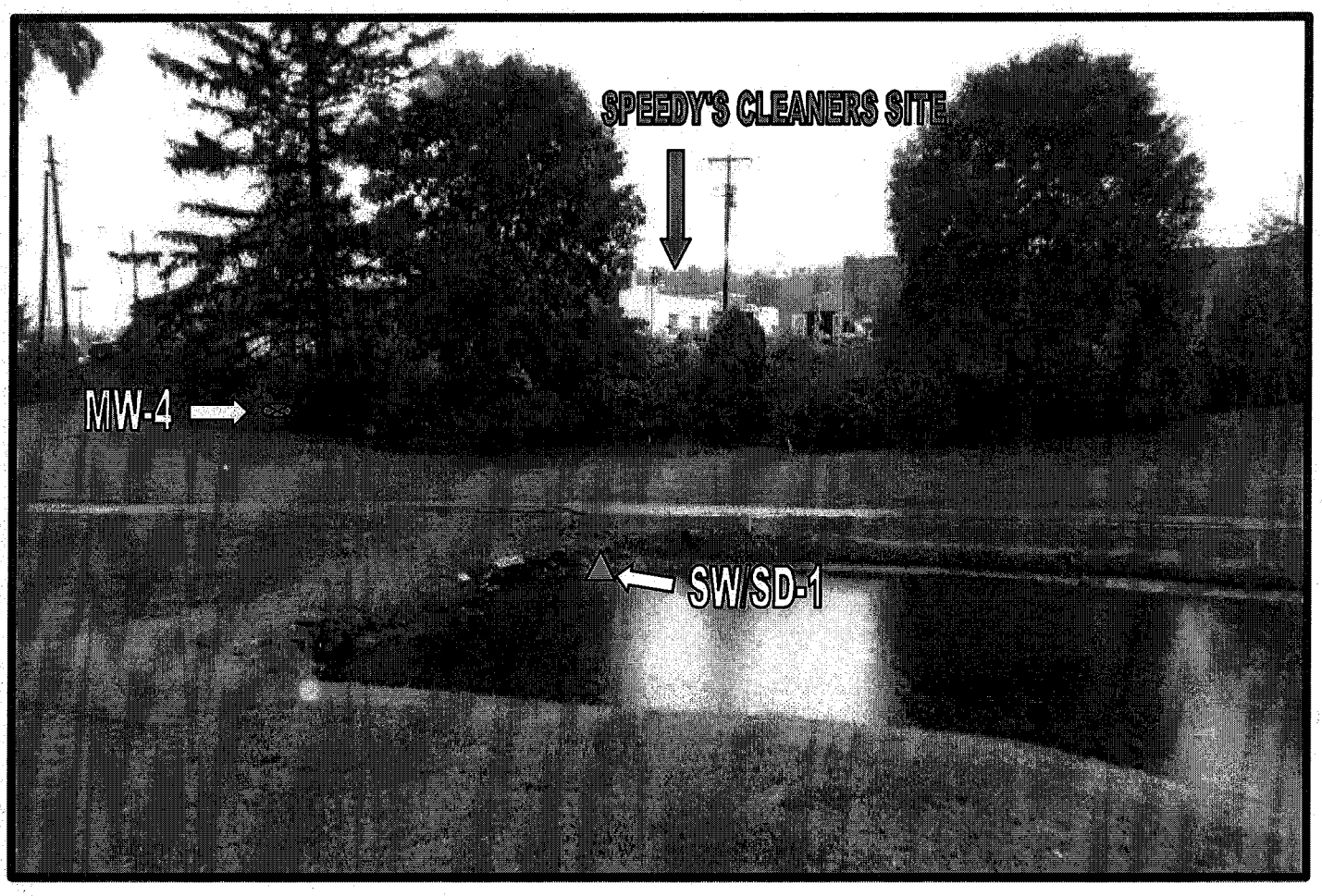
SITE PHOTOGRAPHS

APPENDIX A

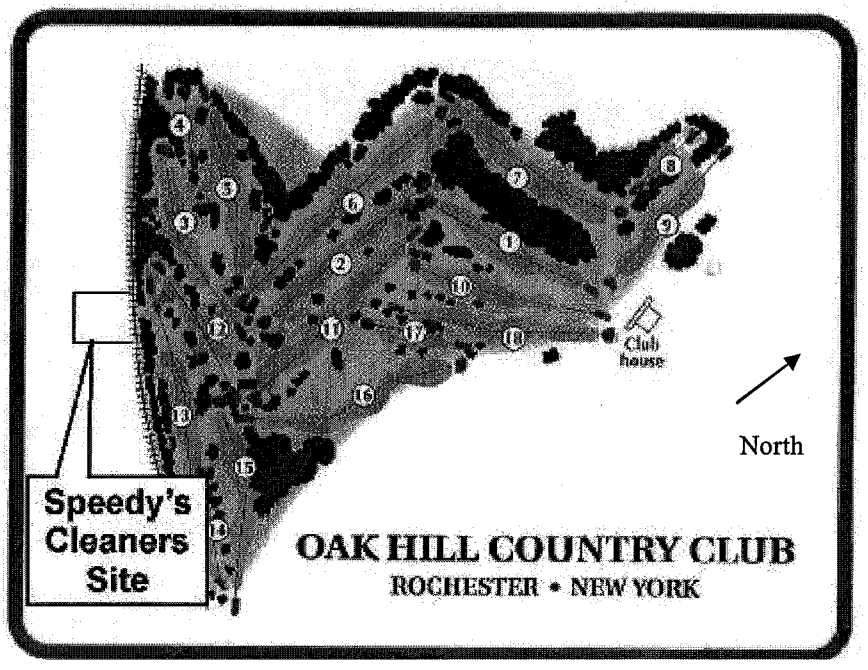
SITE PHOTOGRAPHS

SPEEDY'S CLEANERS SITE

PITTSFORD, NEW YORK



Looking south from small pond on Oak Hill Country Club fairway #13 to Site



APPENDIX A

SITE PHOTOGRAPHS

SPEEEDY'S CLEANERS SITE

PITTSFORD, NEW YORK

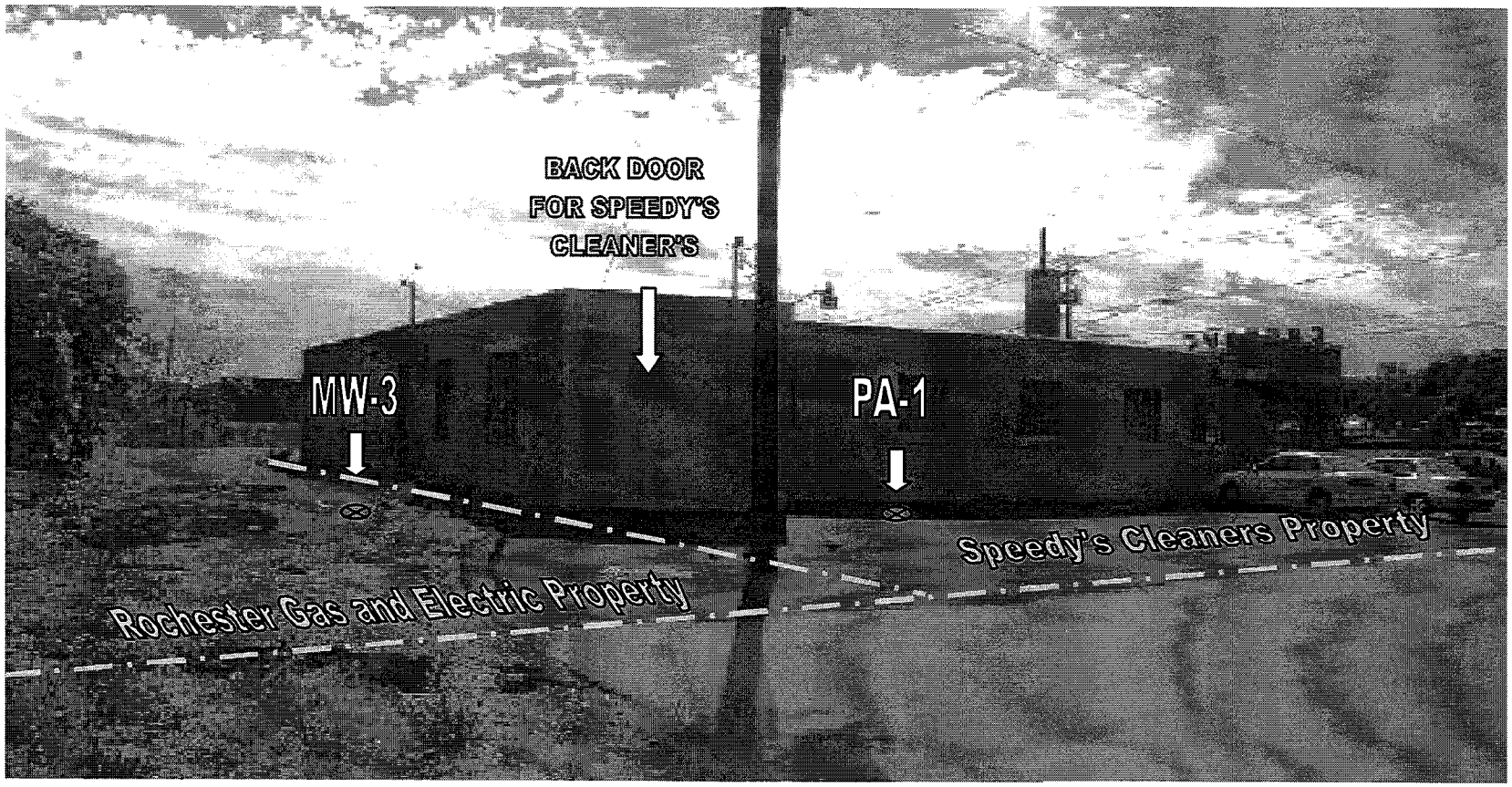
Looking northeast across Monroe Avenue towards Site

APPENDIX A

SITE PHOTOGRAPHS

SPEEEDY'S CLEANERS SITE

PITTSFORD, NEW YORK



View looking southwest at Site

Approximate property line location

APPENDIX B

NYSDEC SITE INVESTIGATION FORM

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

4/1/00

SITE INVESTIGATION INFORMATION

1. SITE NAME	2. SITE NUMBER	3. TOWN/CITY/VILLAGE	4. COUNTY
SPEEDY'S CLEANERS SITE	8-28-109	PITTSFORD, NY	MONROE COUNTY

5. REGION	6. CLASSIFICATION
8	CURRENT [ ] PROPOSED [X] MODIFICATION

7. LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location)

a. Quadrangle: UGS 7.5 Minute Quad Pittsford, NY b. Site Latitude 43° 6' 24.5" Site Longitude 77° 32' 33.4"

c. Tax Map Number(s) 150.120-01-006 and 150.120-01-35.1 d. Site Street Addresses 3130 Monroe Avenue

8. BRIEFLY DESCRIBE THE SITE (Attach site map showing disposal/sampling locations)

The site is located in a commercial area of the Town of Pittsford. The Site includes the Speedy's Cleaners property and the Rochester Gas and Electric Company (RG&E) property. The Speedy's Cleaners property is situated on 0.27 acres and consists of a small paved lot and a 4900 square foot building housing Speedy's Cleaners and Cliffords Wine and Liquor. The RG&E property consists of a level grassy area that drops off sharply to the north. Speedy's Cleaners operated as a dry cleaner from approximately 1966 until approximately 1993. Speedy's Cleaners is currently used as a drop-off and pick up-location only and no dry cleaning is conducted on the premises. Tertrachoroethene (PCE) has been detected in Site soils and groundwater.

a. Area: approx. 0.27 & 0.11 acres b. Completed: ( ) Env. Property Assessment (X) PSA ( ) SI ( ) ESI ( ) IRM ( ) RI/FS ( ) Construction ( ) O&M ( )

9. HAZARDOUS WASTE DISPOSED (Include EPA Hazardous Waste Numbers)

Tetrachloroethene (CAS # 127-18-4)

10. ANALYTICAL DATA AVAILABLE

a. ( ) Air (X) Groundwater ( ) Surface Water ( ) Sediment (X) Soil ( ) Waste ( ) Leachate ( ) EPTox ( ) TCLP

b. Contravention of Standards or Guidance Values (ppb = parts per billion)

Maximum concentrations (above standard or guidance levels) detected during 2002 PSA:

Contaminant	Media	Concentration	NYS Groundwater Standard
PCE	groundwater	5,900 ppb	5 ppb
trichloroehene (TCE)	groundwater	580 ppb	5 ppb
cis-1,2-dichloroethene (DCE)	groundwater	64,000 ppb	5 ppb
trans 1,2-DCE	groundwater	580 ppb	5 ppb
1,1-DCE	groundwater	80 ppb	5 ppb
vinyl chloride	groundwater	9,200 ppb	2 ppb
ethylbenzene	groundwater	250 ppb	5 ppb
toluene	groundwater	46 ppb	5 ppb
xylene (total)	groundwater	310 ppb	5 ppb
chloromethane	groundwater	22 ppb	5 ppb
1,2-dichloropropane	groundwater	2 ppb	1 ppb

Contaminant	Media	Concentration	NYSDEC Soil Cleanup Objective
PCE	soil	110,000 ppb	1,400 ppb
TCE	soil	4,200 ppb	300 ppb

11. CONCLUSION

Concentrations of contaminants detected in groundwater and soil samples collected at the Site exceed NYS Class GA groundwater standards and the NYSDEC Soil Cleanup Objectives. Concentrations of chlorinated solvents were detected in groundwater samples collected downgradient of the Site, at concentrations above the NYS Class GA groundwater standards. Contaminants originating from the Site soils are migrating off-site in groundwater.

a. Institutional Controls (IC) Required? ( ) Y (X) N, not at this time b. If yes, identify c. Are these ICs in place and verified? ( ) Y ( ) N

b. Groundwater: Depth approx. 12 ft. Flow Direction northeast ( ) Sole Source (X) Primary ( ) Other High-Yield Aquifer

12. SITE IMPACT DATA

a. Nearest Surface Water: Distance 100 ft. Direction northeast Class AA/B

c. Water Supply: Distance approx. 3800 ft. Direction southeast Active ( ) Yes ( ) No (X) unknown

d. Nearest Building: Distance 0 ft. Direction (on-site) Use clothes drop off/pick up location & liquor store

e. Documented fish or wildlife mortality?	( ) Y	(X) N	h. Exposed hazardous waste?	( ) Y	(X) N
f. Impact on special status fish or wildlife resource?	( ) Y	(X) N	i. If proposed Classification is 2, Priority?	( ) 1 ( ) 2	( ) 3
g. Controlled Site Access?	( ) Y	(X) N	j. EPA ID# NYD981558315	HRS Score	

13. SITE OWNER'S NAME	14. ADDRESS	15. TELEPHONE NUMBER
1) Chris Williams 2) RG&E	1) P.O. Box 499 Pittsford, NY 14618 2) 89 East Avenue, Rochester, NY 14604	(585) 586-3060

16. PREPARER	17. APPROVED
Signature Date	Signature Date
Name, Title, Organization	Name, Title, Organization

APPENDIX C

USEPA SITE INSPECTION QUESTIONNAIRE
SITE INFORMATION FORM

PART I: SITE INFORMATION

1. **Site Name/Alias** Speedy's Cleaners Site

Street Address 3130 Monroe Avenue

City Town of Pittsford **State** New York **Zip Code** 14618

Describe Site Boundaries (North, South, East, West)

The Speedy's Cleaners site (Site) is located at 3130 Monroe Avenue in a commercial area in the northwest corner of the Town of Pittsford in Monroe County, New York. Roads, businesses, and a country club surround the Site. The Oak Hill Country Club lies to the north just past the RG&E property. Businesses lie to the northwest and southeast of the Site, as well as to the southwest, across Monroe Avenue.

2. **County** Monroe **County Code** **Cong. Dist.** 31

3. **CERCLIS ID No.** **Region** II

4. **Block No.** 150.12-1 **Lot No.** 6 and 35.1

5. **Latitude** 43° 6' 24.5" **Longitude** 77° 32' 33.4"

USGS Quads.USGS 7.5 Minute Quad Pittsford, NY

6. **Approximate size of site:** 0.27 and 0.11 acres

7. **Owner** 3130 Monroe Avenue Associates, LLC. **Telephone Number** (585) 586-3060

Street 3130 Monroe Avenue

City Pittsford **State** New York **Zip Code** 14618

8. **Operator** Neil Helman **Telephone Number** (585) 546-7120

Street 50 SCIO Street

City Rochester **State** New York **Zip Code** 14604

9. **Type of Ownership**

Private (X) **Federal** ( ) **State** ( ) **County** ( ) **Municipal** ( )
Unknown ( ) **Other**

10. **Owner/Operator Notification on File**

RCRA 3001 Date _____ **CERCLA 103c Date** _____ **NYSDEC Date** 8/27/01

Other *(Specify, Date)* **None** ( ) **Unknown** ( )

11. **Permit Information**

Permit	Permit No.	Date Issued	Expiration Date

Comments:

Fire inspector reported three 55-gallon drums of trichloroethene blocking electrical panel.

12. **Site Status**

Active (X) **Inactive** ( ) **Unknown** ( )

13. **Years of Operation:** Facility used as dry cleaners from 1965 to approximately 1993. Facility currently used as laundry drop off and pick up location only and there is no dry cleaning machinery on-site.

14. **Identify the types of waste sources on site:** Soils contaminated with tetrachloroethene were identified by the northwest corner of the Site building. The area was possibly used for cleaning dry cleaning filters.

15. **Describe the regulatory history of the site, including the scope and objectives of any previous response actions, investigations and litigation by State, Local and Federal agencies (indicate type, affiliation, date of investigations).**

In March of 1999 the NYSDEC was informed of the removal of a leaking underground storage tank. The NYSDEC has conducted oversight of the Site owners voluntary cleanup activities from 1999 to the present.

b) **Is the site or any waste source subject to Petroleum Exclusion? Identify petroleum products and by products that justify this decision.**

Petroleum contamination from an underground storage tank containing #2 fuel oil has been previously investigated and removed under guidance of the NYSDECs Spills department. The current investigation focused on chlorinated solvent contamination.

c) **Are pesticides produced and stored on site? Does the facility apply pesticides (FIFRA or Federal Insecticide, Fungicide, and Rodenticide Act) to any part of the property?**

No.

d) **Is the site or any waste source subject to RCRA Subtitle C (briefly explain)?**

No.

e) **Is the site or any waste source maintained under the authority of the Nuclear Regulatory Commission (NRC) ?**

No.

16. **Information available from:**

Contact:	**Agency:**	**Telephone Number:**
Preparer: Charles R. Staples		**Agency/Company:** Harding Lawson Associates
Date: December 1, 2002		**Telephone Number:** 207-774-5401

PART II: WASTE SOURCE INFORMATION

For each of the waste units (sources) identified in Part I, complete the following items.

Waste Unit (#) 1 -

Source Type

__ **Constituent** __ **Wastestream**

__ **Landfill** _X **Contaminated Soil**

__ **Surface Impoundment (buried/backfilled)** __ **Pile(Specify type: chemical, junk, trash, tailings, etc.)**

__ **Drums** __ **Land Treatment**

__ **Tanks/Containers** __ **Other (Specify)**

Description:

1. **Describe the types of containers, impoundments or other storage systems (i.e. concrete lined surface impoundment) and any labels that may be present.**
   No storage systems present. Tetrachloroethene was detected in Site soil.
2. **Describe the physical condition of the containers or storage systems (i.e. rusted and/or bulging metal drums).**
   None Present.
3. **Describe any secondary containment that may be present (e.g. drums on concrete pad in building or above ground tank surrounded by berm).**
   None Present.

Hazardous Waste Quantity - for each source, evaluate waste quantity by as many tiers (a-d) as you have information to support.

Not Available (NA)

Hazardous Substances/Physical State.

NA.

PART III: SAMPLING RESULTS

EXISTING ANALYTICAL DATA

Review and summarize any previously existing groundwater, soil, sediment, surface water, air, or waste sample analyses. Discuss the precision, accuracy, representativeness and completeness of previous sampling efforts. Describe the concentrations of chemicals of concern based on available data and media impacted. These parameters should be evaluated by examining the results of routine quality control procedures. Any suspected problems with this data should be identified. This is especially if the data cannot be used for HRS purposes. Any problems should receive the immediate attention of the work assignment manager. Identify data gaps.

Day Environmental Inc. (Day) performed an environmental assessment of the RG&E property for a prospective buyer of the property in September 1998. Four test borings were completed, and one soil sample was submitted for volatile organic compound (VOC) analysis based on the highest detection reported with a photoionization detector (PID). The sample was collected from two to four feet below ground surface (bgs) in boring TB-2, near the Speedy's Cleaners vent pipes (Figure 2-1). PCE was detected at 10,500 micrograms per kilogram (µg/Kg), and TCE was detected at 1,275 µg/Kg in the soil sample. Petroleum-related VOCs were also detected(Day, 1999).

The Site first came to the attention of the NYSDEC in March 1999 during the removal of an underground storage tank (UST) by Passero Associates, P.C. (Passero). The 1000 gallon UST was used to store # 2 fuel oil. During the UST removal, petroleum-contaminated soil was encountered, and free product (fuel oil) was found seeping into the excavation. Fourteen soil borings were completed in March and May 1999 to determine the extent of contamination from the fuel oil spill, as well as detected chlorinated solvent contamination. The highest concentrations of chlorinated solvents were detected at a depth of 3-4 feet bgs in soil samples collected from boring BH-1, located near the northern corner of the building. Chlorinated solvents detected in BH-1 included PCE at a concentration of 748,000 µg/Kg and TCE at a concentration of 5,409 µg/Kg, as compared to the NYSDEC soil cleanup objectives of 1,400 µg/Kg, and 700 µg/Kg, respectively.

In May 1999 one groundwater sample was collected from 10 feet bgs in soil boring BH-9, located 10 feet northwest of the north corner of the Site building. Vinyl chloride, the only chlorinated solvent detected in BH-9, was detected at a concentration of 1,217 micrograms per liter (µg/L) as compared to the NYS Class GA groundwater standard of 2 µg/L. No other groundwater samples were collected near the rear of the building. To determine the extent of VOC contamination below the building, three borings were completed through the floor of the former dry cleaning area. Soil samples were collected from between one and a half and three feet bgs. PCE was detected in all three borings, ranging in concentration from 53 to 81 µg/Kg (Paradigm, 1999). In July 1999, soil and water samples were collected from six additional soil borings completed on the west side of the building. No chlorinated solvents were detected in any of the samples.

Soil and groundwater samples were collected in September 2002 by Harding Lawson Associate for a NYSDEC Preliminary Site Assessment. Highest concentrations of contaminants detected are as follows:

Parameter	Standard	Result (µg/L)
Tetrachloroethene	5	5,900
Trichloroethene	5	580
cis-1,2-Dichloroethene	5	64,000
trans-1,2-Dichloroethene	5	580
1,1-Dichloroethene	5	80
Vinyl chloride	2	9,200
Toluene	5	46
ethylbenzene	5	250
m,p-Xylene	5	170
o-Xylene	5	140

Contaminant	Media	Concentration	NYSDEC Soil Cleanup Objective [1]
PCE	soil	110,000 ppb	1,400 ppb
TCE	soil	4,200 ppb	300 ppb

Note:

Standard = NYS Class GA Groundwater Standard
1 = From NYSDEC Technical and Administrative Guidance Memorandum #94-4046.
µg/L = micrograms per liter
ppb = parts per billion

PCE contaminated soils were concentrated north and east of the northern corner of the Site building. PCE concentrations in soils appeared to decrease with depth.

Groundwater samples collected 10 feet downgradient of the Site also contained concentrations of chlorinated solvents above the NYS Class GA Groundwater Standards. Results are as follows:

Parameter	Standard	Result (µg/L)
Tetrachloroethene	5	2400
Trichloroethene	5	350
cis-1,2-Dichloroethene	5	2700
trans-1,2-Dichloroethene	5	31
1,1-Dichloroethene	5	5
Vinyl chloride	2	1200

Note:

Standard = NYS Class GA Groundwater Standard
µg/L = micrograms per liter

Surface water and samples were collected from the small pond located 100 feet north of the Site on the Oak Hill Country Club property, and from the Class B stream located approximately .5 miles northeast of the Site. No volatile organic compounds were

detected in these samples.

SITE INSPECTION RESULTS

PCE was detected in soils north and east of the northern corner of the Site building at concentrations up to 110,000 µg/Kg as compared to the NYSDEC soil Cleanup Objective of 1400 µg/KG. Reported PCE concentrations in soils decrease with depth. No PCE was detected in groundwater samples collected upgradient of the Site building. PCE was detected in groundwater near the suspected source area. PCE was detected in groundwater 10 feet downgradient of the Site (50 feet downgradient of the suspected source area) at a concentration of 2400 µg/L compared to the NYS Class GA groundwater standards of 5µg/L. No VOCs were detected in surface water and sediment samples collected from the small golf course pond 100 feet north of the Site, or from the Class B stream located 0.5 miles northeast (downgradient) of the Site.

PCE contaminated soil at the Site is resulting in contamination of shallow groundwater. Chlorinated solvents are migrating off-site in shallow groundwater at concentrations above the NYS Class GA groundwater standards. Chlorinated solvent contamination in shallow groundwater does not appear to be contaminating sediment and surface water in nearby ponds and streams. Based on the presence of high concentrations of PCE degradation products, it appears that biodegradation is occurring in Site soils and groundwater.

PART IV: HAZARD ASSESSMENT

GROUNDWATER ROUTE

1. **Describe the likelihood of a release of contaminant(s) to groundwater as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence and relationship to background.**

   Reported analytical results indicate shallow groundwater is contaminated with PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, vinyl chloride, toluene, ethylbenzene, xylene and chloromethane at concentrations above the NYS Class GA groundwater standards. No VOCs were detected in samples upgradient of the Site at concentrations above the NYS Class GA groundwater samples.

2. **Describe the aquifer of concern; include information such as stratigraphy, depth, thickness, geologic composition, areas of karst terrain, permeability, overlying strata, confining layers, interconnections, discontinuities, depth to water table, groundwater flow direction.**

   Soils at the Site consist primarily of lacustrine silts, sands and clays overlaying glacial till. Glacial Till is approximately 15 feet below ground surface. Bedrock is expected to be between 100 and 150 feet below ground surface. Bedrock in the area consists primarily of Vernon Shale (USGS, 1989).

3. **What is the depth from the lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer(s) of concern?**

   Unknown.

4. **What is the permeability value of the least permeable continuous intervening stratum between the ground surface and the top of the aquifer of concern?**

   Unkown.

5. **What is the net precipitation at the site (inches)?**

   The average annual precipitation is 32 inches and the average annual snowfall is 90 inches (National Climatic Data Center, 1999 for Rochester, NY).

6. **What is the distance to and depth of the nearest well that is currently used for drinking purposes?**

   According to the USGS national water resource tracking system, there are three private wells within 1 mile of the Site (the wells vary in depth from 48 to 100 feet bgs). It is unknown if the wells are currently used. The water supply for the Town of Pittsford is Lake Ontario.

7. **If a release to groundwater is observed or suspected, determine the number of people that obtain drinking water from wells that are documented or suspected to be actually contaminated by hazardous substance(s) attributed to an observed release from the site.**

   Unknown. The observed contamination was in shallow groundwater. The closest downgradient homes are located approximately 0.5 miles northeast of the Site. Public water is supplied to this area, but it is not known if any private wells exist in this area.

8. **Identify the population served by wells (private + municipal) located within 4 miles of the site that draw from the aquifer(s) of concern.**

   Monroe County Water Authority supplies public water to this area. The water source is treated water from Lake Ontario (inlet 10 miles north of Site) and from Hemlock Lake (19 miles south of Site). It is unknown if there are any private wells in use.

   State whether groundwater is blended with surface water, groundwater, or both before distribution.

   Groundwater is not used for water supplied to the Town of Pittsford.

   Is a designated well head protection area within 4 miles of the site?

   Unknown.

   Does a waste source overlie a designated or proposed wellhead protection area? If a release to groundwater is observed or suspected, does a designated or proposed wellhead protection area lie within the contaminant boundary of the release?

   Unknown.

9. **Identify one of the following resource uses of groundwater within 4 miles of the site (i.e., commercial livestock watering, ingredient in commercial food preparation, supply for commercial aquaculture, supply for major, or designated water recreation area, excluding drinking water use, irrigation (5-acre minimum) of commercial food or commercial forage crops, unusable).**

   None observed.

SURFACE WATER ROUTE

10. Describe the likelihood of a release of contaminant(s) to surface water as follows: release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence and relationship to background.

None. No Volatile organic compounds were detected in surface water samples collected 100 feet and one-half mile downgradient of the Site.

11. Identify the nearest down slope surface water. Include a description of possible surface drainage patterns from the site.

A small pond is located on the Oak Hill Country Club Golf Course. It is possible that during heavy rains, runoff from the Site flows down a short, steep slope and then across the golf course to the pond.

12. What is the distance to the nearest down slope surface water? Measure the distance along a course that runoff can be expected to follow.

The nearest down slope surface water is located approximately 100 feet north-northeast of the Site and at an elevation 14 feet lower than the Site.

13. Identify all surface water body types within 15 downstream miles.

Name	Water Body Type	Flow	Saline/Fresh/Brackish
Unnamed	Stream	North	fresh
Allen Creak	Stream	East	fresh
Irequoit Creek	Stream	North	fresh
Irequoit Bay	Bay	North	fresh
Lake Ontario	Lake	East	fresh

14. Determine the 2 yr, 24 hr rainfall (inches) for the site?

The 2 yr, 24 hr rainfall for the Site is 2.5 inches (New York Guidelines for Urban Erosion Control, 1997).

15. Determine size of drainage area (Acres) for the sources at the site?

Approximately 150 acres drain towards the Site.

16. Describe the predominant soil group in the drainage area?

Soils in the drainage area consist primarily of a silty loam over lacustrine silts, sands and clays. These overlay glacial till. (USGS, 1989).

17. Determine the floodplain (1 yr., 10 yr., 100 yr., 500 yr., none) that the site is within.

None.

18. Identify drinking water intakes in surface waters within 15 miles downstream of the point of surface water entry. For each intake identify: the name of the surface water body in which the intake is located, the distance in miles from the point of surface water entry, population served, and stream flow at the intake location.

The closest downstream surface water intake is located approximately 15 miles downstream of the Site, 1.5 miles into lake Ontario. The intake water is treated at the Shoremont Water Treatment Facility. The water services most of Monroe County.

19. Identify fisheries that exist within 15 miles downstream of the point of surface water entry. For each fishery specify the following information:

Unknown.

20. Identify surface water sensitive environments that exist within 15 miles of the point of surface water entry.

Unknown.

21. If a release to surface water is observed or suspected, identify any intakes, fisheries, and sensitive environments from question Nos. 18-20 that are or may be actually contaminated by hazardous substance(s) attributed to an observed release from the site.

None observed.

22. Identify whether the surface water is used for any of the following purposes, such as: irrigation (5 acre minimum) of commercial food or commercial forage crops, watering of commercial livestock, commercial food preparation, recreation, potential drinking water supply?

Golf course irrigation supply intake is 0.6 miles downstream of the Site. No other uses are known. No volatile organic compounds were identified in the surface water sample collected 0.2 miles upstream of the intake.

SOIL EXPOSURE PATHWAY

23. Determine the number of people that occupy residences or attend school or day care on or within 200 feet of an area of observed contamination.

None.

24. Determine the number of people that regularly work on or within 200 feet of an area of observed or suspected contamination.

Approximately 30 people regularly work within 200 feet of the area of observed contamination.

25. Identify terrestrial sensitive environments on or within 200 feet of an area of observed or suspected contamination.

None.

26. Identify whether there are any of the following resource uses, such as commercial agriculture, silviculture, livestock production or grazing within an observed or suspected contamination boundary?

None.

AIR ROUTE

27. Describe the likelihood of release of contaminants to air as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release define the supporting analytical evidence and relationship to background.

No air samples collected.

28. Determine populations that reside within 4 miles of the site.

The population density for the area surrounding the Site is approximately 1500 people per square mile (US Census 2000).

29. Identify sensitive environments and wetlands acreage (wetland acreage only for wetlands sensitive

environment) within 4 miles of the site.

There are approximately 350 acres of wetlands located within 4 miles of the Site (both upgradient and downgradient. It is unknown whether any of these wetlands are designated as sensitive environments.

30. If a release to air is observed or suspected, determine the number of people that reside or are suspected to reside within the area of air contamination (might be actual contamination) from the release.

Unknown. Based on soil contamination and distance to nearby residence, it is suspected that local residences will be affected by air contamination.

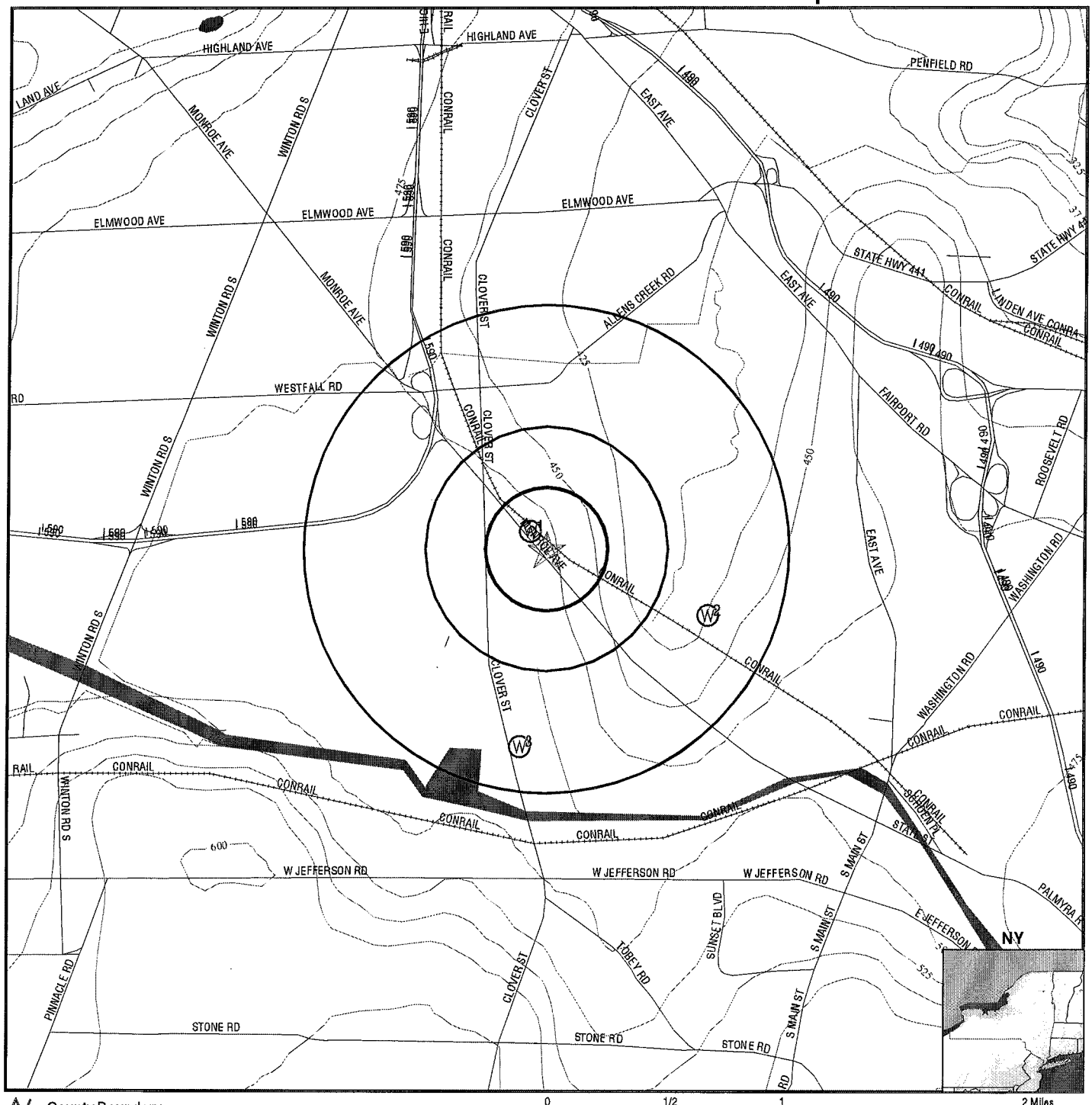
31. If a release to air is observed or suspected, identify any sensitive environments, listed in question No. 46, that are or may be located within the area of air contamination from the release.

Unkown

REFERENCES

1. Day Environmental, Inc. (Day) 1999. Letter from Day Environmental, Inc. to Mr. Sam Buck, RE: Modified Transaction Screen for property adjacent to 3122 Monroe Avenue, Pittsford, NY. January 7, 1999.
2. Harding Lawson Associates, 2003; *Draft Preliminary Site Assessment report, Speedy's Cleaners Site, Pittsford, New York*; February, 2003.
3. National Climactic Data Center (NCDC), 1999. *Comparative Climactic Data for the United States through 1998.* June 22, 1999.
4. Paradigm Environmental Services, P.C. (Paradigm) 1999. Analytical results from samples analyzed from May 19th to 21st, 1999.
5. United States Geological Survey 1989. Glacial History and Geohydrology of the Irondequoit Creek Valley, Monroe County, New York. 1989.

PHYSICAL SETTING SOURCE MAP - 1882581.1p



0 1/2 1 2 Miles

- County Boundary
- Major Roads
- Contour Lines
- Water Wells
- Public Water Supply Wells
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Cluster of Multiple Icons
- Earthquake epicenter, Richter 5 or greater
- Closest Hydrogeological Data

TARGET PROPERTY:	Speedys Cleaners Site	CUSTOMER:	MACTEC, Inc.
ADDRESS:	3130 Monroe Avenue	CONTACT:	Mark Stelmack
CITY/STATE/ZIP:	Pittsford NY 14618	INQUIRY #:	1882581.1p
LAT/LONG:	43.1068 / 77.5426	DATE:	November 15, 2002 1:42 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **NW** **0 - 1/8 Mile** **Higher**	**FED USGS**	**430628077323901**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1900	County:	Monroe
Altitude:	450.00 ft.	State:	New York
Well Depth:	48.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Domestic

---

2 **ESE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**430610077314701**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1900	County:	Monroe
Altitude:	435.00 ft.	State:	New York
Well Depth:	76.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Domestic

---

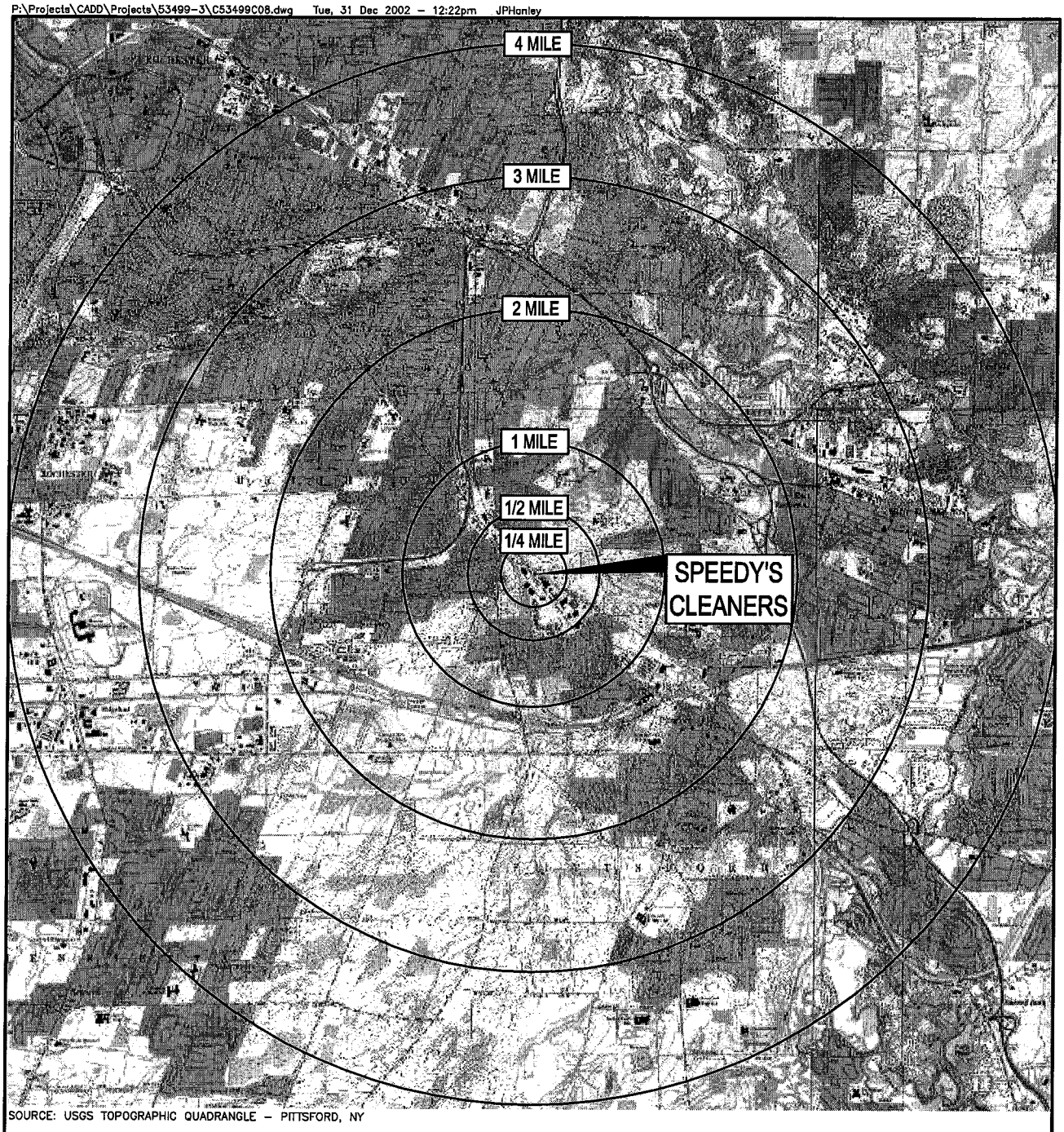
3 **South** **1/2 - 1 Mile** **Higher**	**FED USGS**	**430542077324201**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1900	County:	Monroe
Altitude:	500.00 ft.	State:	New York
Well Depth:	100.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	28.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	01011934	Prim. Use of Water:	Public supply

Note: According to the Town of Pittsford department of public works, no town wells are currently used for public water supply.

P:\Projects\CADD\Projects\53499-3\C53499C08.dwg Tue, 31 Dec 2002 - 12:22pm JPHanley



SOURCE: USGS TOPOGRAPHIC QUADRANGLE - PITTSFORD, NY

QUADRANGLE LOCATION

0 3000 6000

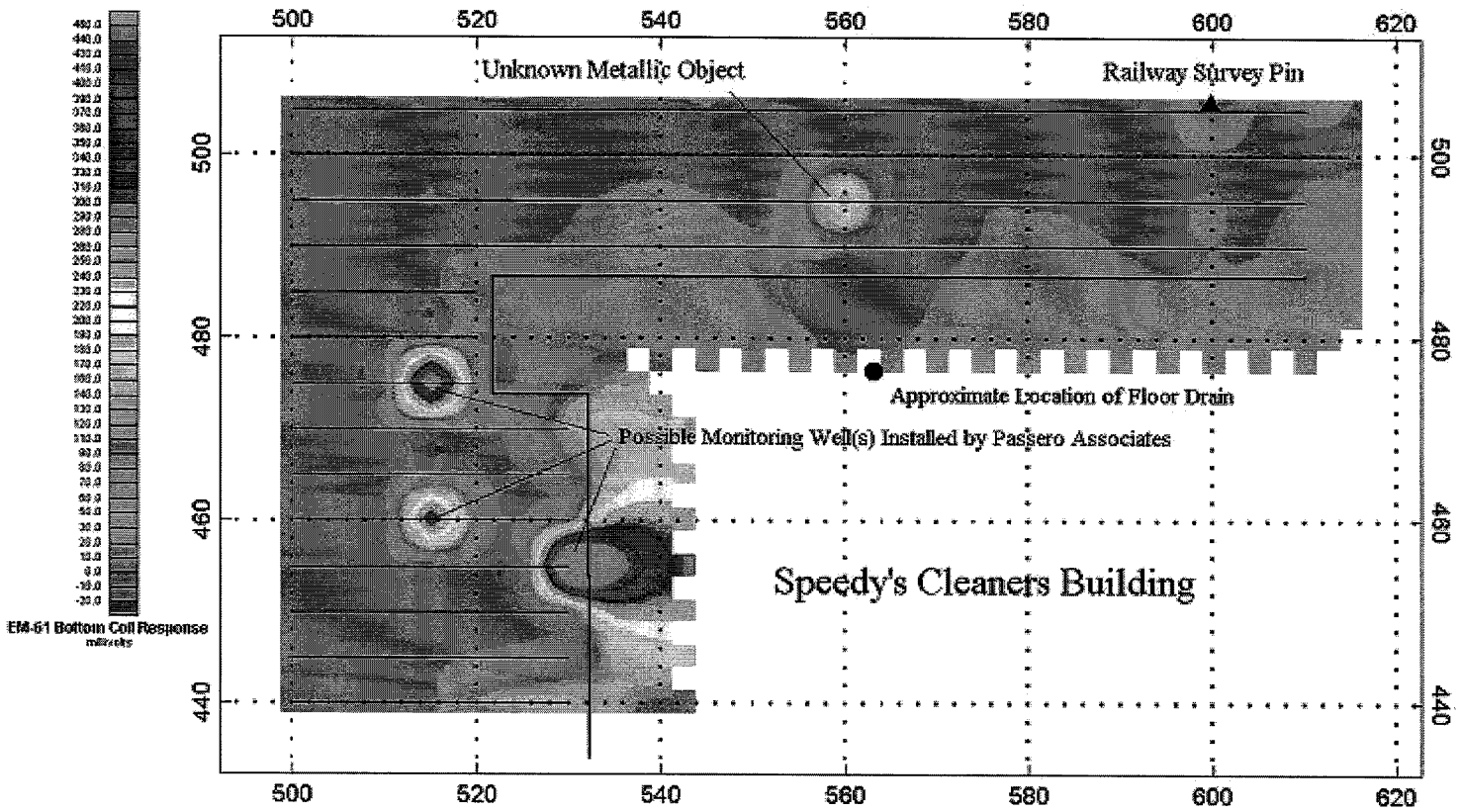
Scale in feet

FOUR MILE RADIUS
APPENDIX C
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Harding Lawson Associates

APPENDIX D

GEOPHYSICAL SURVEY FIGURES



10 0.0 10 20

(feet)

Figure D-1

Speedy's Cleaners Site
Pittsford, New York
EM-61 High Resolution Metal Detection Survey
Bottom Coil Response Results

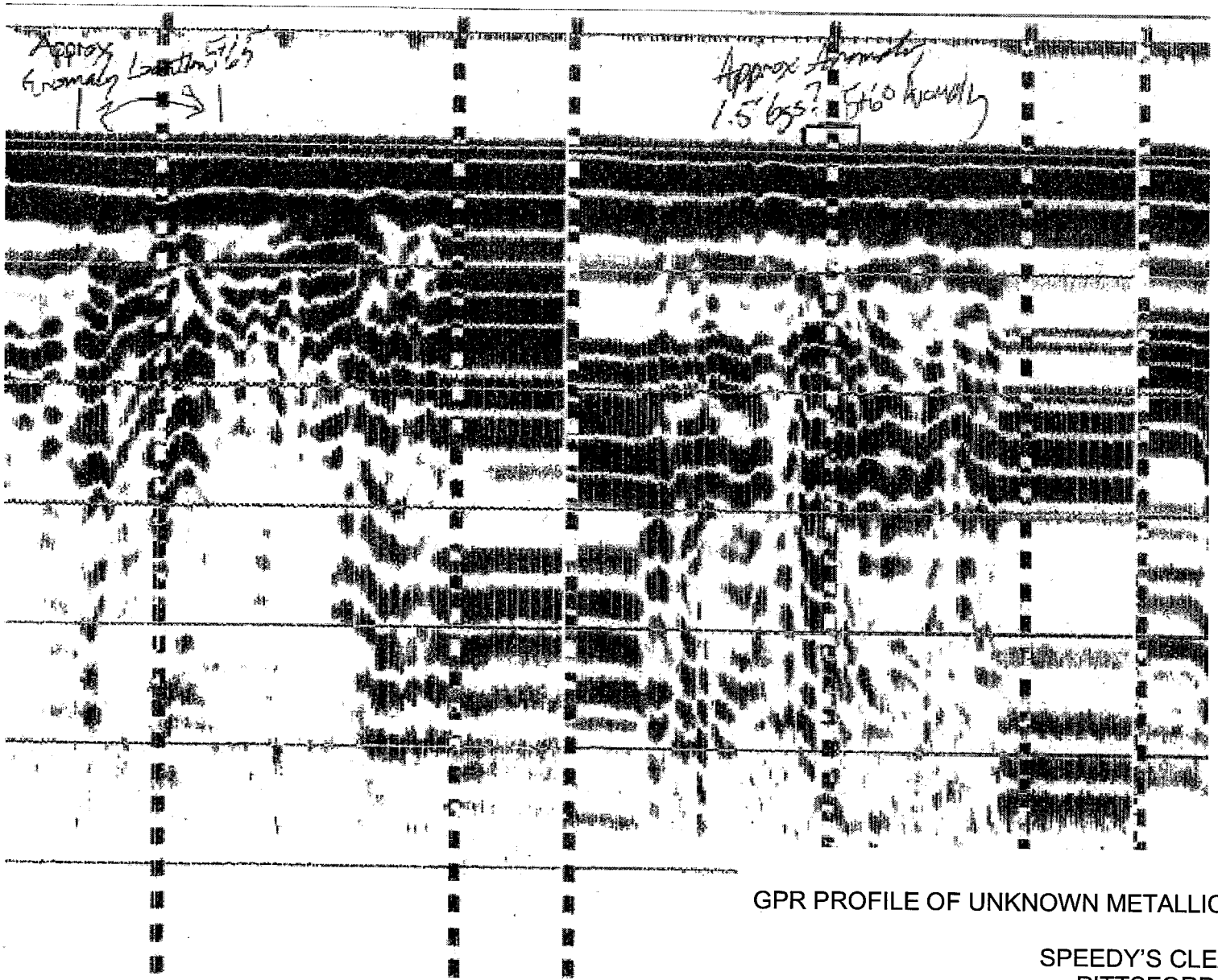


FIGURE D-2
GPR PROFILE OF UNKNOWN METALLIC OBJECT AT
500N, 560E
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

W2001094

Harding Lawson Associates

APPENDIX E

E.2 Sample Records

FIELD INSTRUMENTATION & MATERIAL QUALITY ASSURANCE RECORD

Project NYSDEC Site SPEEDY

Project No. 53499-2 Sampler Signature [signature]

Date 9/25/02

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
Horiba U-10 - NYSDEC-13		pH 4 3.98 pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		Cond. Std. 4.49 / 4.49 Cond. Std. ____ / ____ meter value
		Cond. Std. ____ / ____ Cond. Std. ____ / ____ meter value
		Cond. Std. ____ / ____ Cond. Std. ____ / ____ meter value
		Temp 17.2°C
Dissolved Oxygen		
Horiba U-10 - NYSDEC-13		Avg. Winkler Value ____ ppm Meter Value 9.59 ppm
Redox		
		Zobell Sol. Value ____ Meter Value ____
Photoionization Meter		
580 B OVM Pine # 01933 11.8 bulb		Zero/Zero Air? ☐Yes ☐No Span Gas Value 100 ppm Equiv.
		Meter Value 100 ppm Equiv.
		Zero/Zero Air? ☐Yes ☐No Span Gas Value ____ ppm Equiv.
		Meter Value ____ ppm Equiv.
Other		

Fluids/Materials Record

Deionized Water Source: ____ ABB-ES FOS ____ Portable System X Other

Trip Blank Water Source: X Lab; Lot No. ____

____ Other; Type ____ ID ____

Decontamination Fluids: Type Liquinox ID ____

Filtration Paper ID: (In Line) Manuf/Type ____ Lot No. ____ / ____

(Vacuum) Manuf/Type ____ Lot No. ____ / ____

Chemicals Used: HNO_3 Lot No. ____ ZnAOC Lot No. ____

H_2SO_4 Lot No. ____ Other Lot No. ____

HCL Lot No. ____ Other Lot No. ____

NaOH Lot No. ____

FIGURE 6-1
FIELD INSTRUMENTATION AND MATERIAL QUALITY ASSURANCE RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

FIELD INSTRUMENTATION & MATERIAL QUALITY ASSURANCE RECORD

Project NYSDEC. PSA-6 Site SPEEDY

Project No. 53499 Sampler Signature [signature]

Date 9/26/02

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
Horiba- U-10 - NYSDEC-IT		pH 4 7.99 pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		Cond. Std. 4.49 / 4.48 Cond. Std. ____ / ____ meter value
		Cond. Std. ____ / ____ Cond. Std. ____ / ____ meter value
		Cond. Std. ____ / ____ Cond. Std. ____ / ____ meter value
Dissolved Oxygen		Temp 17.4°
Horiba- U-10 NYSDEC-IT		Avg. Winkler Value ____ ppm Meter Value 9.25 ppm
Redox		
____		Zobell Sol. Value ____ Meter Value ____
Photoionization Meter		
580 B OVM Pine #01933 - 11.8 bulb.	low	Zero/Zero Air? ☐Yes ☒No Span Gas Value 100 ppm Equiv. Meter Value 101 ppm Equiv.
____	____	Zero/Zero Air? ☐Yes ☐No Span Gas Value ____ ppm Equiv. Meter Value ____ ppm Equiv.
Other		
____	____	____

Fluids/Materials Record

Deionized Water Source: ____ ABB-ES FOS ____ Portable System X Other

Trip Blank Water Source: X Lab; Lot No. ____

____ Other; Type ____ ID ____

Decontamination Fluids: Type Liquinox ID ____

Filtration Paper ID: (In Line) Manuf/Type ____ Lot No. ____ / ____

(Vacuum) Manuf/Type ____ Lot No. ____ / ____

Chemicals Used: HNO_3 Lot No. ____ ZnAOC Lot No. ____

H_2SO_4 Lot No. ____ Other Lot No. ____

HCL Lot No. ____ Other Lot No. ____

NaOH Lot No. ____

FIGURE 6-1
FIELD INSTRUMENTATION AND MATERIAL QUALITY ASSURANCE RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: NYSDEC PSA-6
Project Number: 53499-2
Sample Location ID: SPBW0010180?FX

Site: SPEEDYS
Date: 9/25/02
Time: Start: 1000 End: 1040
Signature of Sampler: [signature]

Water Level/Well Data

Well Depth 19 Ft. X Measured ___ Historical

X Top of Well ___ Top of Protective Casing

Well Riser Stick-up -.2 Ft. (from ground)

Protective -.2 Ft. Casing/Well Difference

Protective ___ Ft. Casing

Depth to Water 13.6 Ft.

Well Material: X PVC ___ SS

Well Locked?: ___ Yes X No

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch 1 inch

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

Height of Water Column 5.4 Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) 0.045 Gal/Ft. (1 in.) = 0.22 Gal/Vol. 1.1 Total Gal Purged

Well Integrity: Yes No
Prot. Casing Secure
Concrete Collar Intact
Other not yet installed

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For)

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

Decontamination Fluids Used:

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

Field Analysis Data

PID: Ambient Air NA ppm Well Mouth ___ ppm
100 ml/min

Purge Data Collected ___ In-line X In Container
1020

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

Purge Data	@ 0.25 Gal.	@ 0.60 Gal.	@ 1.0 Gal.	@ 1.1 Gal.	@ ___ Gal.
Temperature, Deg. C	18.5	18.5	19.0	Collect	
pH, units	7.38	7.39	7.35	sample	
Specific Conductivity (µmhos/cm)	3.20	3.26	3.25	~~20+~~	
Turbidity (NTUS)	664	999	201	@	
Oxidation - Reduction, +/- mv	~~2.0~~	-	-	1020	
Dissolved Oxygen, ppm	2.0	1.	2.49		

DTW 11.5'

Sample Collection Requirements
(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
X VOCs	X	4°C	2x40 ml	
SVOCs		4°C	2x1 liter AG	
Inorganics		HNO_3,4°C	1x1 liter P	
Cyanide		NaOH,4°C	1x500ml P	
Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H_2SO_4,4°C	2x1 liter AG	
TOC		H_2SO_4,4°C	1x1 liter P	

Notes: Screen 9-19' bgs
- micro well set, grab sample
offsite - split + MS/MSD

FIGURE 4-14
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Harding Lawson Associates

9910003(d) 22

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: NYSDEC - PSA-6 Site: SPEEDYS

Project Number: 53499-2 Date: 9/25/02

Time: Start: 1200 End: 1245

Sample Location ID: SPSW002013002FK Signature of Sampler: [signature]

Water Level/Well Data

Well Depth 14.0 Ft. [x] Measured [ ] Historical

[ ] Top of Well [x] Top of Protective Casing

Well Riser Stick-up -.2 Ft. (from ground)

Protective _____ Ft. Casing/Well Difference

Protective _____ Ft. Casing

Depth to Water 7.5 Ft.

Well Material: [x] PVC [ ] SS _____

Well Locked?: [ ] Yes [x] No

Well Dia. [ ] 2 inch [ ] 4 inch [ ] 6 inch 1 inch

Water Level Equip. Used: [x] Elect. Cond. Probe [ ] Float Activated [ ] Press. Transducer _____

Height of Water Column 6.5 Ft. X [ ] .16 Gal/Ft. (2 in.) [ ] .65 Gal/Ft. (4 in.) [ ] 1.5 Gal/Ft. (6 in.) [x] 0.04 Gal/Ft. (1 in.) = 0.27 Gal/Vol. / 0.8 Total Gal Purged

Well Integrity:

	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other Not yet completed		

Equipment Documentation

Purging/Sampling Equipment Used:

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

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

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

Disposable tubing

Field Analysis Data

PID: Ambient Air NA ppm Well Mouth _____ ppm

Purge Data Collected [ ] In-line [x] In Container

Sample Observations: [ ] Turbid [ ] Colored [ ] Clear [x] Cloudy [ ] Odor

Purge Data	@ 0.25 Gal.	@ 0.5 Gal.	@ 0.75 Gal.	@ 0.80 Gal.	@ _____ Gal.
Temperature, Deg. C	23.7	23.1	22.7	Collect	good flow
pH, units	7.14	7.07	7.04	Sample	
Specific Conductivity (µmhos/cm)	3.13	3.19	3.16	@	
Turbidity (NTUS)	459	999	999	1240	
Oxidation - Reduction, +/- mv	-	-	-		
Dissolved Oxygen, ppm	0.41	0.81	0.43		

Sample Collection Requirements (✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
[x] VOCs	[x]	4°C	2x40 ml	
[ ] SVOCs		4°C	2x1 liter AG	
[ ] Inorganics		HNO_3, 4°C	1x1 liter P	
[ ] Cyanide		NaOH, 4°C	1x500ml P	
[ ] Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
[ ] Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
[ ] Pest/PCB		4°C	3x1 liter AG	
[ ] TPH		H_2SO_4, 4°C	2x1 liter AG	
[ ] TOC		H_2SO_4, 4°C	1x1 liter P	

Notes: Collected from new microwell with 4-1/4" DTW- 6.99' btoc - not dropping 180 ml/min

FIGURE 4-14
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: NYSDEC
Project Number: 53499
Site: SPEEDYS
Date: 9/25/02
Time: Start: 1420 End: 1430
Sample Location ID: SPBW003011102FX
Signature of Sampler:

Water Level/Well Data

Direct Push

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

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

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

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

Equipment Documentation

Purging/Sampling Equipment Used:

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

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

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

Field Analysis Data

PID: Ambient Air NA ppm Well Mouth _____ ppm Purge Data Collected ___ In-line X In Container

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

Purge Data	@ 0.25 Gal.	@ 0.5 Gal.	@ 0.6 Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	21.0	20.1	Collect	very good flow	
pH, units	7.11	7.12	sample		
Specific Conductivity (µmhos/cm)	2.54	2.52	@		
Turbidity (NTUS)	999	999	1420		
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	1.11	1.74			

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
X VOCs	X	4°C	2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Inorganics		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500ml P	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	

Notes: screen set 11-13' bgs

FIGURE 4-14
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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GROUNDWATER SAMPLE FIELD DATA RECORD

Project: NYSDEC - PSA-6 Site: SPEEDY

Project Number: 53499 Date: 7/25/02

Time: Start: 1430 End: 1450

Sample Location ID: SPBW003016021FX Signature of Sampler: [signature]

Water Level/Well Data

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

Protective _____ Ft. Casing

Direct Push

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

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

Well Integrity: Yes No

Prot. Casing Secure ___ ___

Concrete Collar Intact ___ ___

Other _____ ___ ___

Equipment Documentation

Purging/Sampling Equipment Used:

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

Decontamination Fluids Used:

(✓ All That Apply at Location)

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

Field Analysis Data

PID: Ambient Air 0.0 ppm Well Mouth 0.0 ppm Purge Data Collected ___ In-line ✓ In Container

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

Purge Data	@ 0.2 Gal.	@ 0.3 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	21.4	Collect	~300 d flow		
pH, units	7.28	Sample			
Specific Conductivity (µmhos/cm)	1.72	@			
Turbidity (NTUS)	999	1445			
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm	0.0				

Sample Collection Requirements

(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
✓ VOCs	✓	4°C	2x40 ml	
___ SVOCs		4°C	2x1 liter AG	
___ Inorganics		HNO_3, 4°C	1x1 liter P	
___ Cyanide		NaOH, 4°C	1x500ml P	
___ Nitrate/Sulfate		H_2SO_4, 4°C	1x1 liter P	
___ Nitrate/Phosphate		H_2SO_4, 4°C	1x1 liter P	
___ Pest/PCB		4°C	3x1 liter AG	
___ TPH		H_2SO_4, 4°C	2x1 liter AG	
___ TOC		H_2SO_4, 4°C	1x1 liter P	

Notes: Screen 16-18' bgs

FIGURE 4-14
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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TEST BORING LOG

Project: NYSDEC - PSA-6	Boring/Well No.: BS/BW-002 MW2	Project No.: 53499	
Client: NYSDEC	Site: SPEEDYS	Sheet No. 1 of 1	
Logged By: C. STAPLES	Ground Elevation	Start Date: 9/25/02	Finish Date: 9/25/02
Drilling Contractor: Geologic, NY	Driller's Name: J. Powell	Rig Type: Geoprobe	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 58.3 ppm	Casing Size: 2"	Auger Size: —
Soil Drilled: 14'	Rock Drilled: —	Total Depth: 14'	Depth to Groundwater/Date: 7.5' 9/25/02	Piez ☐ Well ☒ Boring ☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests
1–4	S1 0-4' 1.0/4.0			—		Brown sand + asphalt - fill refusal on cement @ 4' bgs - more 6"	SW		0.0		
5–8	S2 0-4' 2.5/4.0					0-1.0 Reddish brown to gray M+C. SAND, trace gravel, trace bricks. well graded, loose, dry to 1, grades to more silt 1.0-2.5 Dark brown grades to reddish brown silty fine SAND, trace gravel, slight plasticity, Moist	SW SM		0.0		
9–12	S3 8-12' 4.0/4.0					0-0.5 Brown F. SANDY SILT, little gravel, bits brick, slight plasticity, Moist - saturated 0.5-4.0 Olive gray V. Fine SAND and SILT, some gravel, trace cobble - dense, massive well graded, dry - Till	SM SM GM - till	-9' collect SPBS002009020 @ 1150	0.0		
12–14	S4 12-14' .2/.2					Olive gray F. SAND, and S. gravel some silt, well graded, massive, damp - till	SM GM				

Refusal in Till @ 14' BGS

MICRO.

MW-2

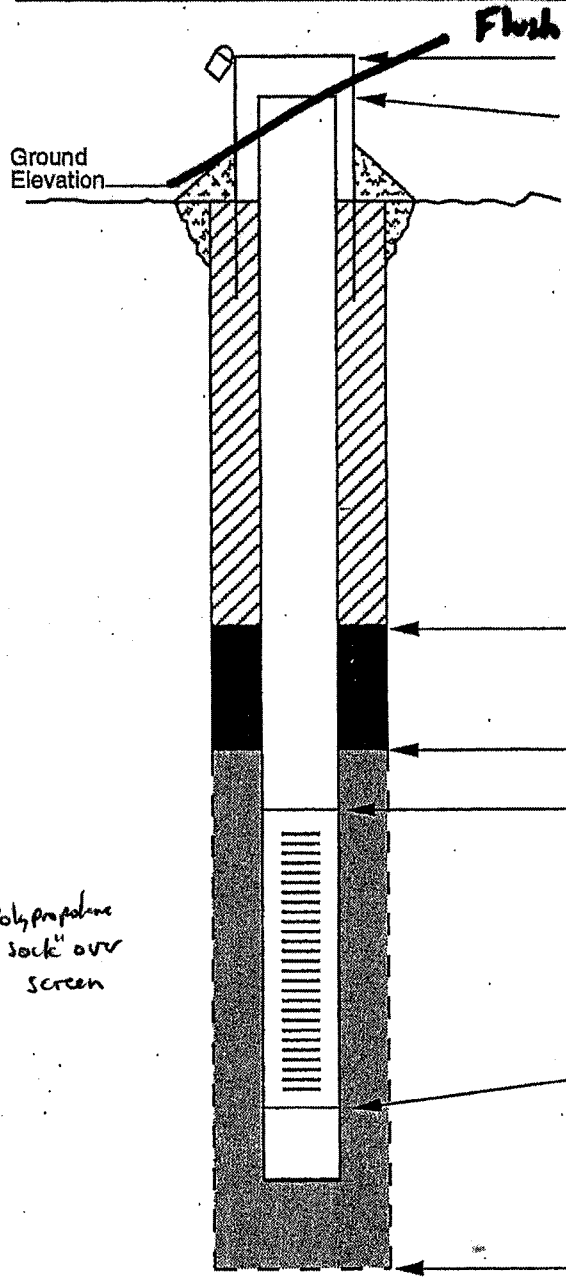
OVERBURDEN WELL CONSTRUCTION DIAGRAM

Project: NYSDEC PSA-6 Site Area: SPEEDYS Driller: J. Powell - Geologic

Project No.: 53499 Boring No.: 155002 - MW-2 Drilling Method: Direct Push

Date Installed: 9/25/02 Development Method: geopump purge to ensure conductivity

Field Geologist: C STAPLES



Elevation of Top of Surface Casing:	440.47
Stick-up of Casing Above Ground Surface:	Flush Mount
Elevation of Top of Riser Pipe:	440.23
Type of Surface Seal:	Cement
Type of Surface Casing:	plastic
ID of Surface Casing:	4"
Diameter of Borehole:	2"
Riser Pipe ID:	1" PVC
Type of Riser Pipe:	PVC
Type of Backfill:	Native Material
Elevation of Top of Seal:	439.5
Depth of Top of Seal:	1'
Type of Seal:	Bentonite powder
Elevation of Top of Sand:	437.5
Depth of Top of Sand:	3.0
Elevation of Top of Screen:	436.6
Depth of Top of Screen:	3.9
Type of Screen:	PVC
Slot Size x Length:	0.02 X 10'
ID of Screen:	1"
Type of Sandpack:	#0
Elevation of Bottom of Screen:	426.6
Depth of Bottom of Screen:	13.9
Depth of Sediment Sump with Plug:	14.0
Elevation of Bottom of Borehole:	426.5
Depth of Bottom of Borehole:	14

TEST BORING LOG

Project: NYSDEC-PSA-6		Boring/Well No.: SB/SW-003	Project No.: 53499
Client: NYSDEC	Site: SPEEDYS'		Sheet No.: 1 of 1
Logged By: C. STARES	Ground Elevation	Start Date: 9/25/02	Finish Date: 9/25/02
Drilling Contractor: Geologic, NY	Driller's Name		Rig Type: Geoprobe
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): SB03-OVM	Casing Size: 2" / Auger Size
Soil Drilled: 16'	Rock Drilled: –	Total Depth: 16'	Depth to Groundwater/Date: 11' BGS 9/25/02

Piez ☐ Well ☐ Boring ☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	Monitoring (ppm): PI Meter Head Space	Monitoring (ppm):	Lab Tests
1	S1 0-4' 3.2/4.0					0-1' Dark Brown F to M SAND, little gravel, well graded, dry	SW		0.0			
2						1.0 - 3.2 Light Brown Very Fine SAND little modeling - massive, damp	SW			–		
3												
4												
5	S2 4-8' 3.0/4.0					0-3.0 light brown very fine SAND, little layering, trace modeling - moist - slight odor - solvent?	SP/SW		0.0	0.0		
6												
7												
8												
9	S3 8-12' 3.0/4.0					0-2.2 olive brown silty fine SAND, little modeling - brown black, slight plasticity in sections - moist	SM		40	21		
10								- collect SPBS0030802FX @ 1400				
11						2.2-3.0 Dark brown V. Fine SAND, organic layer on top - trace gravel - solvent odor	SM		89	19		
12								- collect SPBS0030802FX @ 1410				
13	S4 12-16'					Greyish brown fine sandy silt,	SM/		62			
14	3.1/4.0					little gravel, little plasticity, grades to brown v. fine SAND,	ML					
15						some gravel, little silt, till	TILL					
16						Moist						

EOB @ 16' bgs

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TEST BORING LOG

Project: NYSDEC - PSA-6		Boring/Well No.: BS/RW-004	Project No.: 53499.2
Client: NYSDEC	Site: SPEEDYS		Sheet No. 1 of 1
Logged By: C. STAPLES	Ground Elevation	Start Date: 9/25/02	Finish Date: 9/25/02
Drilling Contractor: Geologic, NY	Driller's Name: J. Powell		Rig Type: Geoprobe
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 5000 ppm	Casing Size: 2" / Auger Size:
Soil Drilled: 12	Rock Drilled: -	Total Depth: 12	Depth to Groundwater/Date: 13.2' bgs 9/25/02

Piez ☐ Well ☐ Boring ☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space		Lab Tests
1	S1 0-4 2.8/4.0					0-2' Black grades to brown M+C SAND, some gravel, well graded, dry.	SW					
2						2.0-2.8 Brown V. Fine SAND, some silt, trace modeling, damp, soft.	SW-SM					
3												
4												
5	S2 4-8 3.0/4.0					0-3.0 light brown V Fine SAND, little silt, little modeling (dark brown) moist, soft, massive	SW					
6												
7												
8												
9	S3 8-12' 2.1/4.0					0-2.1 Light brown Fine ~~silty SAND~~ some SILT grades to silty fine SAND, trace gravel (more like till) Moist - little block modeling	SM	collect sample SPBS004010002FA @ 1530	11	NA		
10												
11												
12												
						BOB @ 12' BGS						

Water @ 13.2' BGS (from screened auger

TEST BORING LOG

Project	Boring/Well No.	Project No.
NYSDEC PSA-6	BS/BW-005	53499

Client	Site	Sheet No.
NYSDEC	SPEEDYS	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
C. STAPLES		9/25/02	9/25/02

Drilling Contractor	Driller's Name	Rig Type
Geologic, NY	J. Powell	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D	580B OVM	2"	—

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16	—	16	11.3' BGS 9/25/02	☐	☐	☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter ppm Field Scan	Monitoring (ppm) PI Meter Head Space		Lab Tests
1–4	S1 0-4' 3.0/4.0					0-1.5 Black M&C SAND grades to light brown M&C SAND, well graded, dry. 1.5-3.0 light brown v.fine SAND, some silt, stratified Dry	SM		0.0	—		
4–8	S2 4-8' 3.0/4.0					0-3.0 light brown v.fine SAND, some silt, slight stratification slight brown modeling, moist, saturated spots	SM		0.0	—		
8–12	S3 8-12' 3.1/4.0					0-2.0 Same as S2	SM		0.0			
						2.0-2.4 Gray ~~silty fine SAND~~ CKS fine sand SILT, moist, little plasticity						
						2.4-2.6 Black organic peat	PT		0.0			
11.3' ▽						2.6-3.1 gray silty fine SAND, slight plasticity trace organics, - strong chlorinated odor	SM – collect		94ppm SP	BS00	@ 5011	1645 02FX
12–16	S4 12-16' 2.5/4.0					0-1.0 gray silty fine SAND slight plasticity, little modeling - strong odor	SM		65			
						1.0-2.5 Brown silty fine SAND, little gravel, grades to olive green silty fine SAND, some gravel - dense till	SM TILL		~25 ppm			
									– 4 in tip.			little to No ODOR

Ref at 16' - drill to 16.5 - water rises to 11.3' bgs

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BOB @ 16' BGS

TEST BORING LOG

Project	Boring/Well No.	Project No.
NYSDEC - PSA-6	BS/BW 006 MW-4	53499-2

Client	Site	Sheet No.
NYSDEC	SPEEDYS	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
C. STAPLES	-	9/26/02	9/26/02

Drilling Contractor	Driller's Name	Rig Type
Geologic, NY	J. Powell	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D	5008 -OVM	2"	

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
8.5'	-	8.5'	9/26/02 - 3.0' bgs	☐	☒	☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Monitoring (ppm)	Lab Tests
1	S1 0-4' 3.5/4.0					0-0.5 sandy organic topsoil 0.5-2.5 light brown silty fine SAND, loose slight stratification, dry			0.0			
2												
3						2.5-3.5 Dark reddish brown fine SAND and SILT, little gravel, trace cobble - till like but not dense	SM					
4												
5	S2 4-8' 3.0/4.0					0-1.5 Reddish brown fine SAND & SILT, little to some gravel trace organics, slight plasticity, Moist,	SM		0.0			
6												
7						1.5-3.0 Olive brown fine SAND, some silt, little gravel - till, Moist, well graded.	SM	collect SPBS006 007021FX @ 0800	11			
8						• tip has more angular rock - saturated						
9	S3 8-8.5 0.5/0.5					• Olive gray fine sand, silt and angular rock - dry - well graded	Till					
10						EOB @ 8.5' BGS						
11												
12												

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9910003(e) L 33

MICRO.

MW-4

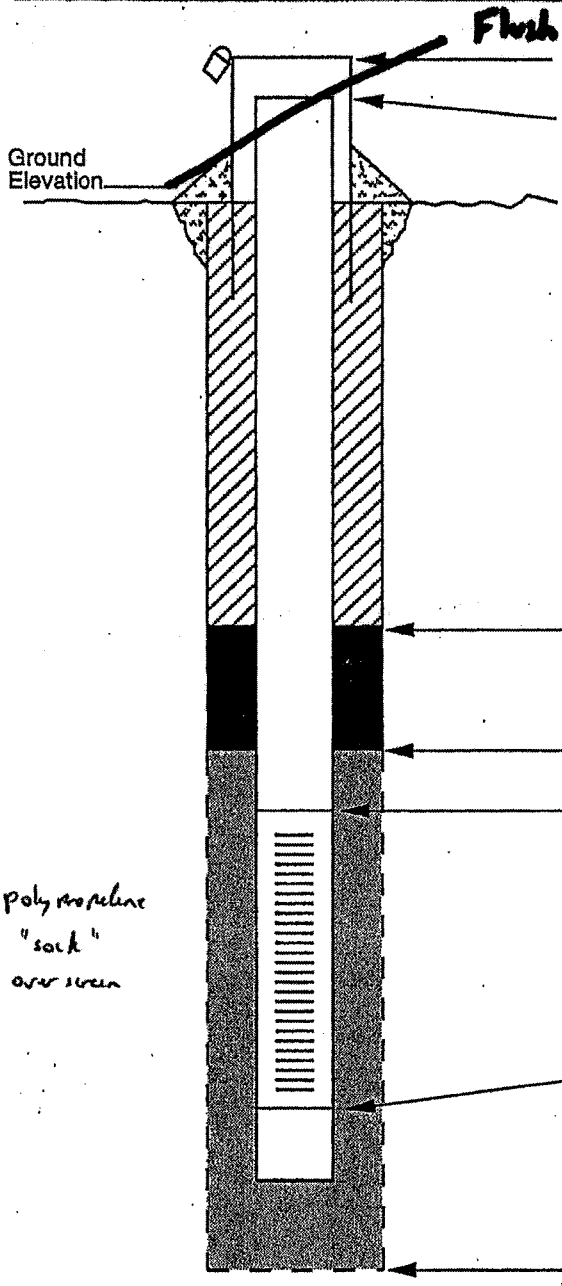
OVERBURDEN WELL CONSTRUCTION DIAGRAM

Project: NYSDEC - PSA-6 Site Area: SPEEDWAY Driller: J. Powell - Geologic, NY

Project No.: 53499-2 Boring No.: SS-006 MW-4 Drilling Method: Direct Push

Date Installed: 9/26/02 Development Method: Geopump purge for conductivity

Field Geologist: C. STAPLES



Elevation of Top of Surface Casing:	430.1
Stick-up of Casing Above Ground Surface:	Flush Mount
Elevation of Top of Riser Pipe:	429.87
Type of Surface Seal:	cement
Type of Surface Casing:	Plastic
ID of Surface Casing:	4"
Diameter of Borehole:	2"
Riser Pipe ID:	1"
Type of Riser Pipe:	PVC
Type of Backfill:	Native material
Elevation of Top of Seal:	429.1
Depth of Top of Seal:	1.0
Type of Seal:	Bentonight
Elevation of Top of Sand:	428.6
Depth of Top of Sand:	1.5
Elevation of Top of Screen:	427.7
Depth of Top of Screen:	2.4
Type of Screen:	PVC
Slot Size x Length:	0.02 x 6'
ID of Screen:	1"
Type of Sandpack:	#0
Elevation of Bottom of Screen:	421.7
Depth of Bottom of Screen:	8.4
Depth of Sediment Sump with Plug:	8.5
Elevation of Bottom of Borehole:	421.6
Depth of Bottom of Borehole:	8.5

TEST BORING LOG

Project: NYSDEC · PSA · 6	Boring/Well No.: BS/BW-007 MW-3	Project No.: 53499-2
Client: NYSDEC	Site: SPEEDYS	Sheet No. 1 of 1
Logged By: C. STAPLES	Ground Elevation: –	Start Date: 9/26/02 · Finish Date: 9/26/02
Drilling Contractor: Geologic, NY	Driller's Name: J. Powell	Rig Type: Geoprobe
Drilling Method: Direct Push	Protection Level: D · P.I.D. (eV): 5800 OVM	Casing Size: 2" · Auger Size: –
Soil Drilled: 19 ft · Rock Drilled: –	Total Depth: 19'	Depth to Groundwater/Date: Piez ☐ Well ☒ Boring ☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space		Lab Tests
1–4	S1 0-4' 2.5/4.0					0-1.0 F&M Brown SAND, trace gravel, dry	SW		75			
						1.0-1.5 Black M&C SAND, trace gravel, dry						
						1.5-2.0 Brown M. SAND, little gravel, trace cobble, loose, dry			25			
						2.0-2.5 Olive gray silty gravel, Dry	GM		10			
5–8	S2 4-8' 2.7/4.0					0-0.6 Olive gray silty gravel, dry	GM		11			
						0.6-2.7 Brown fine sandy SILT and silty fine SAND, well graded, little sections of plasticity, little mottling	SP / SM	BS007006O2FI @ 1625 - o Hill hi/MID				
9–12	S3 8-12' 2.3/4.0					0-1.2 Reddish brown grades to olive brown silty fine SAND, little stratification - Moist to saturated - fine sand lenses poorly graded	SM	75				
						1.2-1.4 Olive brown with black lenses, saturated	SP	BS007011O2FX 1630 - Hill split				
						1.4-2.3 Dark brown grades to brown fine ~~silty~~ SANDY SILT, - strong odor Moist	SM	275				
13–16	S4 12-16 2.5/4.0					0-1.6 Brown silty fine SAND, little gravel, well graded, ~~?~~ dense Moist	SM	80				
						1.6-2.5 Olive brown grades to greenish gray SILT + SAND, little gravel moist, dense	SM	375 / 25				
17–19	#5 16-19 ?					Refusal @ 19' - sleeve stuck in tube - brown gravely silt						

13.8 ▽ (margin note)

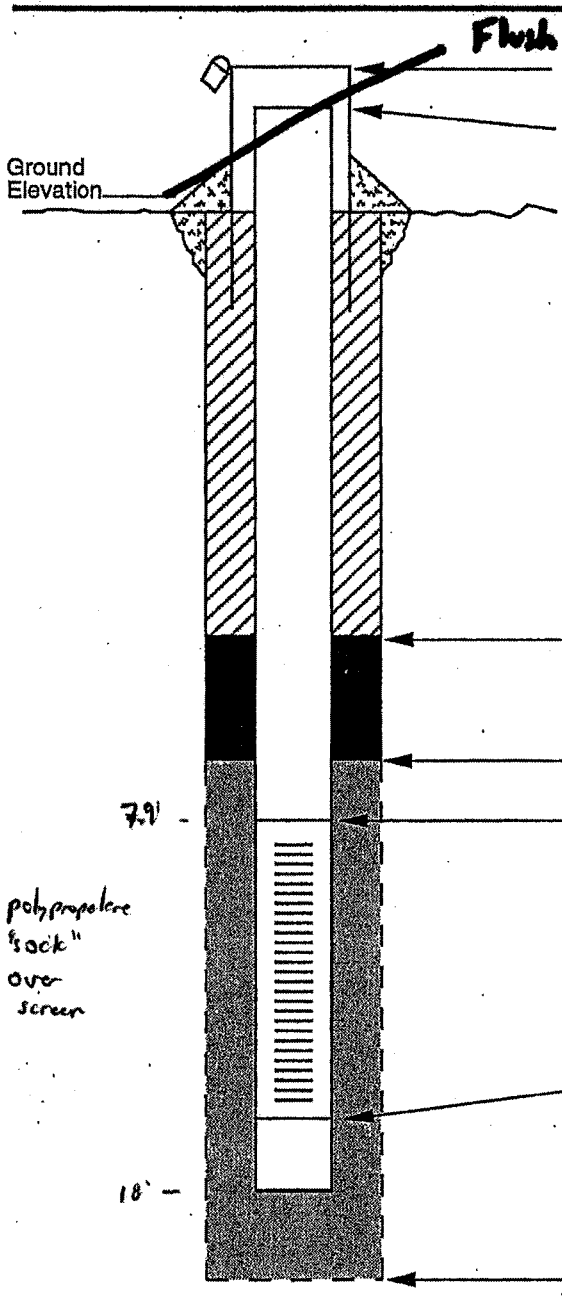
9910003(e) L 33 —Harding Lawson Associates—

MICRO.

MW-3

OVERBURDEN WELL CONSTRUCTION DIAGRAM

Project: NYSDEC-PIAG
Site Area: SPEEDYS
Driller: J. Powell, Geologic
Project No.: 53499-2
Boring No.: BS/BW-007 MW-3
Drilling Method: Direct Push
Date Installed: 9/26/02
Development Method: Geopump purge
Field Geologist: C. STAPLES



Elevation of Top of Surface Casing:	440.4
Stick-up of Casing Above Ground Surface:	Flush Mount
Elevation of Top of Riser Pipe:	440.27
Type of Surface Seal:	Cement
Type of Surface Casing:	Plastic
ID of Surface Casing:	4"
Diameter of Borehole:	2"
Riser Pipe ID:	1"
Type of Riser Pipe:	PVC
Type of Backfill:	native (gravel)
Elevation of Top of Seal:	438.4
Depth of Top of Seal:	2.0
Type of Seal:	bentonite
Elevation of Top of Sand:	436.4
Depth of Top of Sand:	4.0'
Elevation of Top of Screen:	432.5
Depth of Top of Screen:	7.9
Type of Screen:	PVC
Slot Size x Length:	0.02" x 10'
ID of Screen:	1"
Type of Sandpack:	#0
Elevation of Bottom of Screen:	422.5
Depth of Bottom of Screen:	17.9
Depth of Sediment Sump with Plug:	18.0
Elevation of Bottom of Borehole:	422.4
Depth of Bottom of Borehole:	18.0

TEST BORING LOG

Project: NYSDEC - PSA-6	Boring/Well No.: BS/BW 008	Project No.: 53499
Client: NYSDEC	Site: SPEEDYS	Sheet No. 1 of 1
Logged By: C. STAPLES	Ground Elevation:	Start Date: 9/27/02 / Finish Date: 9/27/02
Drilling Contractor: Geologic NY	Driller's Name: J. Powell	Rig Type: Geoprobe
Drilling Method: Direct Push	Protection Level: D / P.I.D. (eV): 580B ovm ~~11.0 bulb~~	Casing Size: 2" / Auger Size:
Soil Drilled: 16' / Rock Drilled: –	Total Depth: 16	Depth to Groundwater/Date: 12.5' 9/27/02 / Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	PI Meter Head Space		Lab Tests
0–4	S1 0-4 3.0/4.0					0-1' Gray Asphalt to ~~SM~~ SAND, little gravel, Moist 1.0-3.0 Brown F. SAND grades to olive brown silty fine SAND, slight layering, Damp.	SW SM	- refusal @ 6' - move boring?	26	–		
4–8	S2 4-8' 2.2/4.0					~~0-0.6 Reddish brown fine~~ sandy SILT, Moist, Med plasticity. 0.6-1.2 Olive brown and gray silty fine SAND, bits brick, slight weathered petroleum odor. 1.2-2.2 Olive F. SAND, some silt, trace gravel, moist	SM SM SM		5 5			
8–12	S3 8-12' 2.5/4.0					0-0.2 same as ↑ 1.2-2.2 0.2-0.8 Black fine silty SAND trace organics, Moist 0.8-2.5 Olive brown SAND, trace-little gravel, little brown mottling - fuel odor ~~0-2.2~~	SM SW	collect	SPBS008011 02BX @ 0815 280			
12–16	S4 12-16' 3.0/4.0					0-2.2 Olive brown to brown silty fine sand, little gravel, well graded, m. dense, Moist 2.2-3.0 Olive gray fine SAND, some silt, little gravel, very dense - till	SM SM		32 8 6 3	} No odor		

EOB @ 16' bgs - dry

- drive screened auger to 16.5 - refusal - water to 12.5

9910003(e) L 33 — Harding Lawson Associates

TEST BORING LOG

Project	Boring/Well No.	Project No.
NYSDEC - PJA-1	BS/BW-009	53499-2

Client	Site	Sheet No.
NYSDEC	SPEEDYS	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
C. STAPLES	-	9/27/02	9/27/02

Drilling Contractor	Driller's Name	Rig Type
Geologic, NY	J. Powell	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D	5803-ovm	2"	

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16'		16	14' 9/27/02	☐	☐	☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Monitoring (ppm)	Lab Tests
0	S1					0-1.0 Black brown F-M SAND little gravel. Damp	-		1100			
1	0-4'					1.0-1.6 Brown F-M SAND to Brown F. SAND, little fine.						
2	2.6/4.0					1.5-2.0 - F SAND + gravel, moist						
3						2.0-2.6 Redish brown to brown silty fine SAND, slight stratification - 2 .5" black lense.		Collect	SPBS009 0900	0030ZFX @ 0850		
4												
5	S2					0-1.5 Redish brown f. Sandy SILT, little modeling, Moist	SM		1400			
6	4-8'					1.5-3.0 Brown silty fine SAND, trace gravel, trace brick, little black bits.	SM	Collect		SPBS0090 @ 0905	0602FX	
7	3.0/4.0						Fill		600			
8												
9	S3					0-1.2 Olive brown F. Sandy silt + silty fine SAND, little red modeling + bits stratified, some plasticity in sections Moist.	SM					
10	8-12'					1.2-1.4 Black silty F SAND, moist	SP/SM	Collect		SPBS0070 @ 0930	11 0ZFX	
11	2.2/4.0					1.4-2.2 Grayish brown silty fine SAND, trace gravel			1800	odor		
12							SM					
13	S4					0-2.0 black and brown			390			
14	12-16' 3.0/4.0					grades to brown silty fine SAND, trace stratification, trace gravel, strong fuel odor	SM		210		↓ will only analyze one soil	
15						2.0-3.0 olive green silty fine SAND, little gravel, Moist, dense TILL	SM		60			
16												

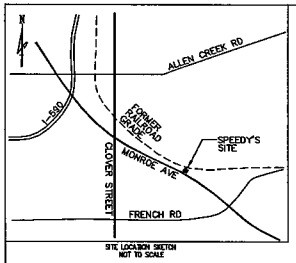
Harding Lawson Associates

9910003(e) L 33

BOB @ 16' bgs

APPENDIX F

SITE LAND SURVEY



SITE LOCATION SKETCH
NOT TO SCALE

× VERT. 10"CMP
ELEV. 427.34'

E.1426410
N.1133950

TRUE NORTH AT THE 78°35'00" MERIDIAN OF WEST LONGITUDE

REVISIONS			

PLANIMETRIC MAP
WITH ELEVATIONS

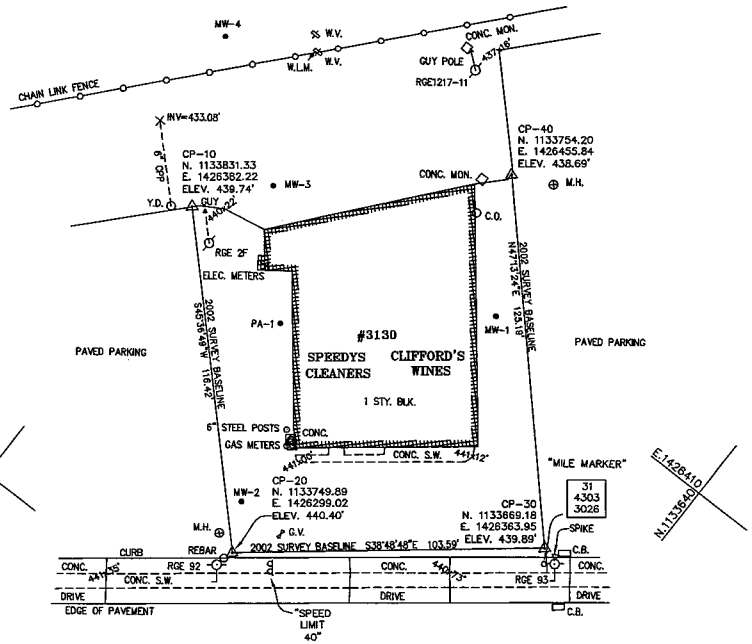
SPEEDY'S CLEANERS

CLIENT: HARDING ESQ, INC.
511 CONGRESS STREET
PORTLAND, MAINE 04101

LOCATION: 3130 MONROE AVENUE
TOWN OF PITTSFORD, COUNTY OF MONROE, STATE OF NEW YORK

POPLI CONSULTING ENGINEERS & SURVEYORS
655 FAIRBROOKE DRIVE PENFIELD, NEW YORK 14526 (716) 586-2060

DATE	SCALE	DRAWN BY	DRAWING NO.
OCTOBER 2002	1" = 20'	SOB	SPEEDYS



E.1426270
N.1133850

E.1426410
N.1133640

MONROE AVENUE

LEGEND

• MW-1	MONITORING WELL
⊕ M.H.	MAN HOLE
	UTILITY LIGHT POLE
○ Y.D.	YARD DRAIN
G.V.	GAS VALVE
	BUILDING LINE
	SIGN
C.B.	CATCH BASIN
W.L.M.	WATER LINE MARKER
W.V.	WATER VALVE
○ C.O.	CLEAN OUT
△ CP	CONTROL POINT

0 20 Feet 40
SCALE BAR

SURVEY NOTES:

1. HORIZONTAL LOCATIONS SHOWN HEREON ARE BASED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM AND THE NORTH AMERICAN DATUM OF 1983/1996 (NAD 83/96) USING REAL TIME KINEMATIC GLOBAL POSITIONING PROCEDURES.
2. VERTICAL LOCATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
3. ALL DISTANCES ARE GROUND HORIZONTAL DISTANCES.
4. UTILITY LOCATIONS SHOWN WERE INFERRED FROM SURFACE EVIDENCE ONLY AND MAY NOT REFLECT AN ACCURATE SUBSURFACE POSITION.

CERTIFICATION:

WE, OM P. POPLI, P.E., L.S., P.C., HEREBY CERTIFY THAT THIS MAP WAS PREPARED FROM THE FIELD NOTES OF AN INSTRUMENT SURVEY COMPLETED ON SEPTEMBER 30, 2002.

MICHAEL A. VENTURO, N.Y.S.P.L.S. NO. 50079 DATE

WELL	NORTHING	EASTING	ELEVATION (FT.)	
MW-1	1133729.4	1426415.2	441.1	GROUND
			441.07	CASING
			440.92	RISER
MW-2	1133758.0	1426314.4	440.5	GROUND
			440.47	CASING
			440.23	RISER
MW-3	1133814.3	1426404.3	440.4	GROUND
			440.41	CASING
			440.27	RISER
MW-4	1133857.4	1426433.9	430.1	GROUND
			430.07	CASING
			429.87	RISER
PA-1	1133784.3	1426369.4	440.7	GROUND
			440.58	CASING
			440.46	RISER

FIGURES

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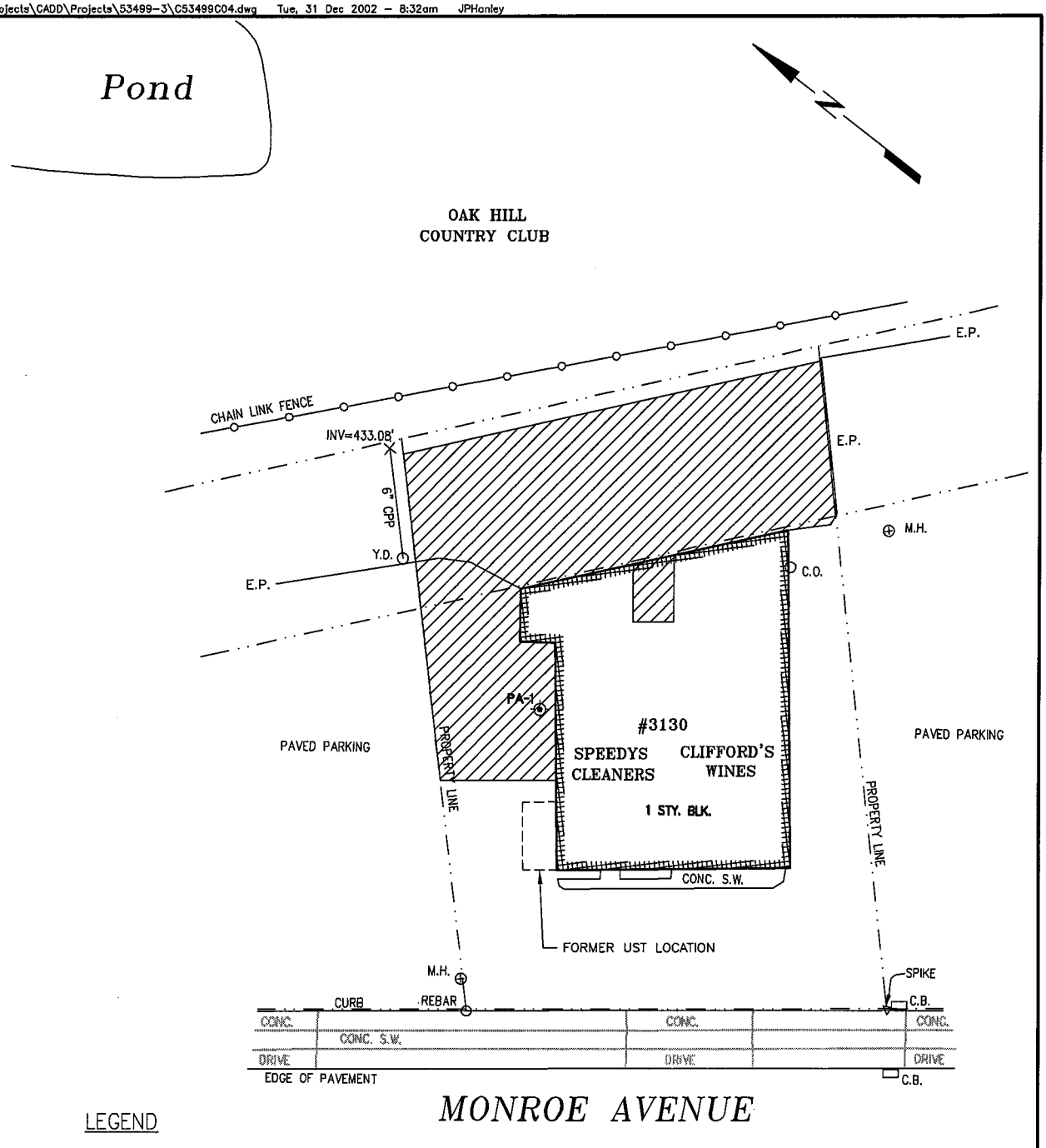


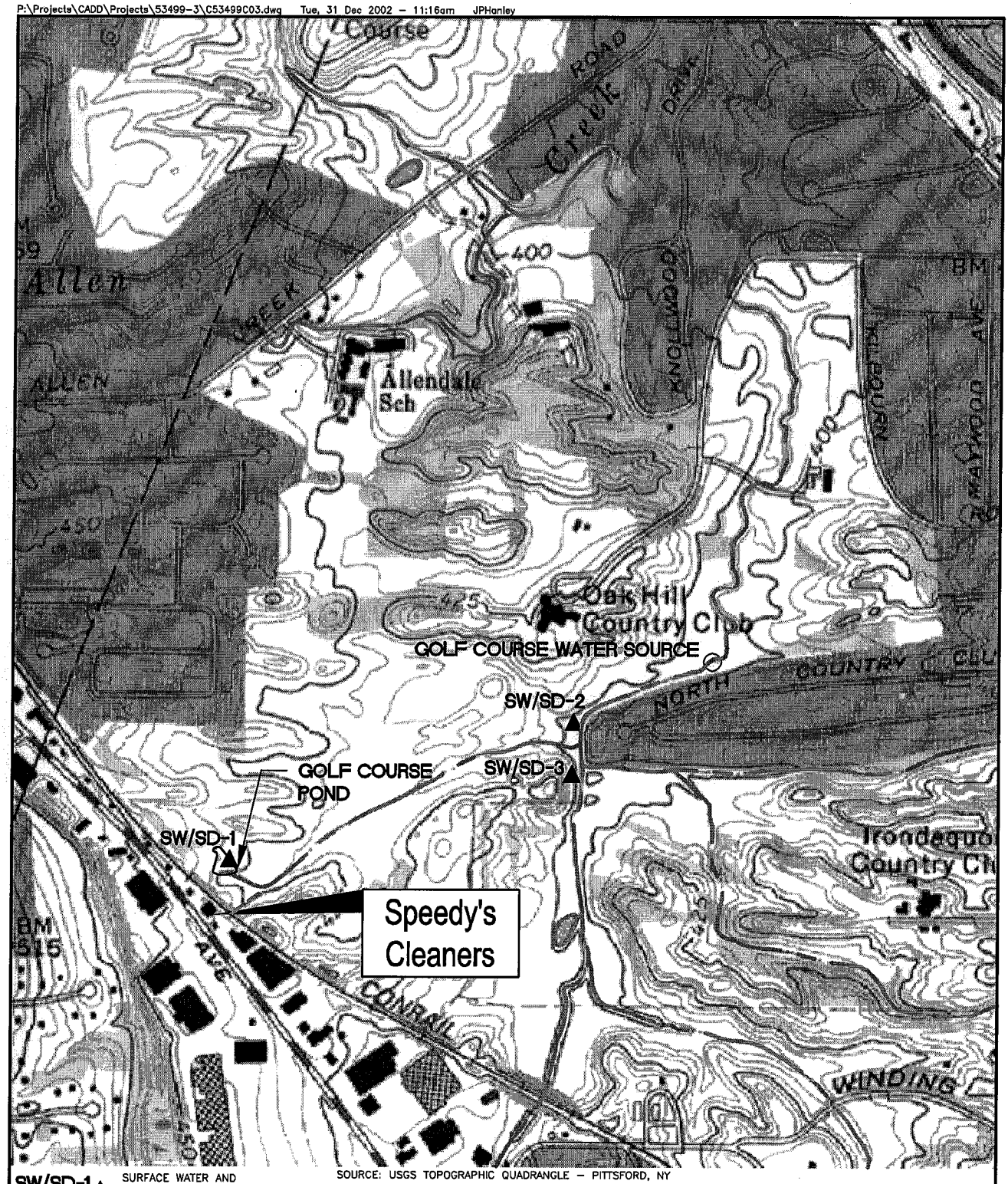
LEGEND

- APPROXIMATE AREA OF GEOPHYSICAL SURVEYING
- PA-1 — 2 INCH MONITORING WELL
- M.H. — MAN HOLE
- Y.D. — YARD DRAIN
- BUILDING LINE
- C.B. — CATCH BASIN
- C.O. — CLEAN OUT
- CHAIN LINK FENCE
- PROPERTY LINE
- E.P. — EDGE OF PAVEMENT

0 20 40

Scale in feet

FIGURE 3-1
AREA OF GEOPHYSICAL SURVEY
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK
Harding Lawson Associates



SW/SD-1 ▲ SURFACE WATER AND SEDIMENT SAMPLE LOCATION

SOURCE: USGS TOPOGRAPHIC QUADRANGLE - PITTSFORD, NY

QUADRANGLE LOCATION

0 500 1000

Scale in feet

FIGURE 3-2
SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Harding Lawson Associates

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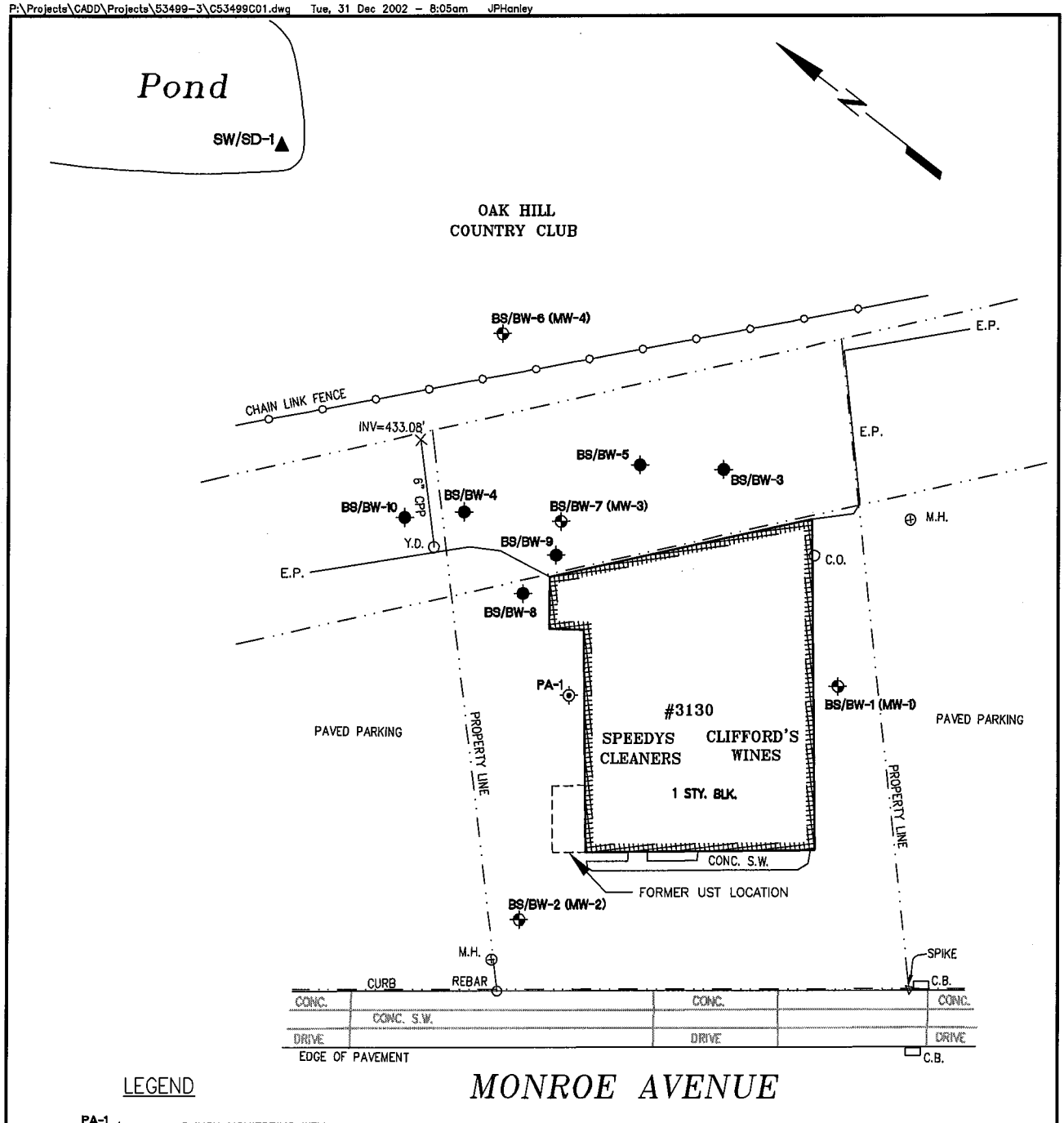
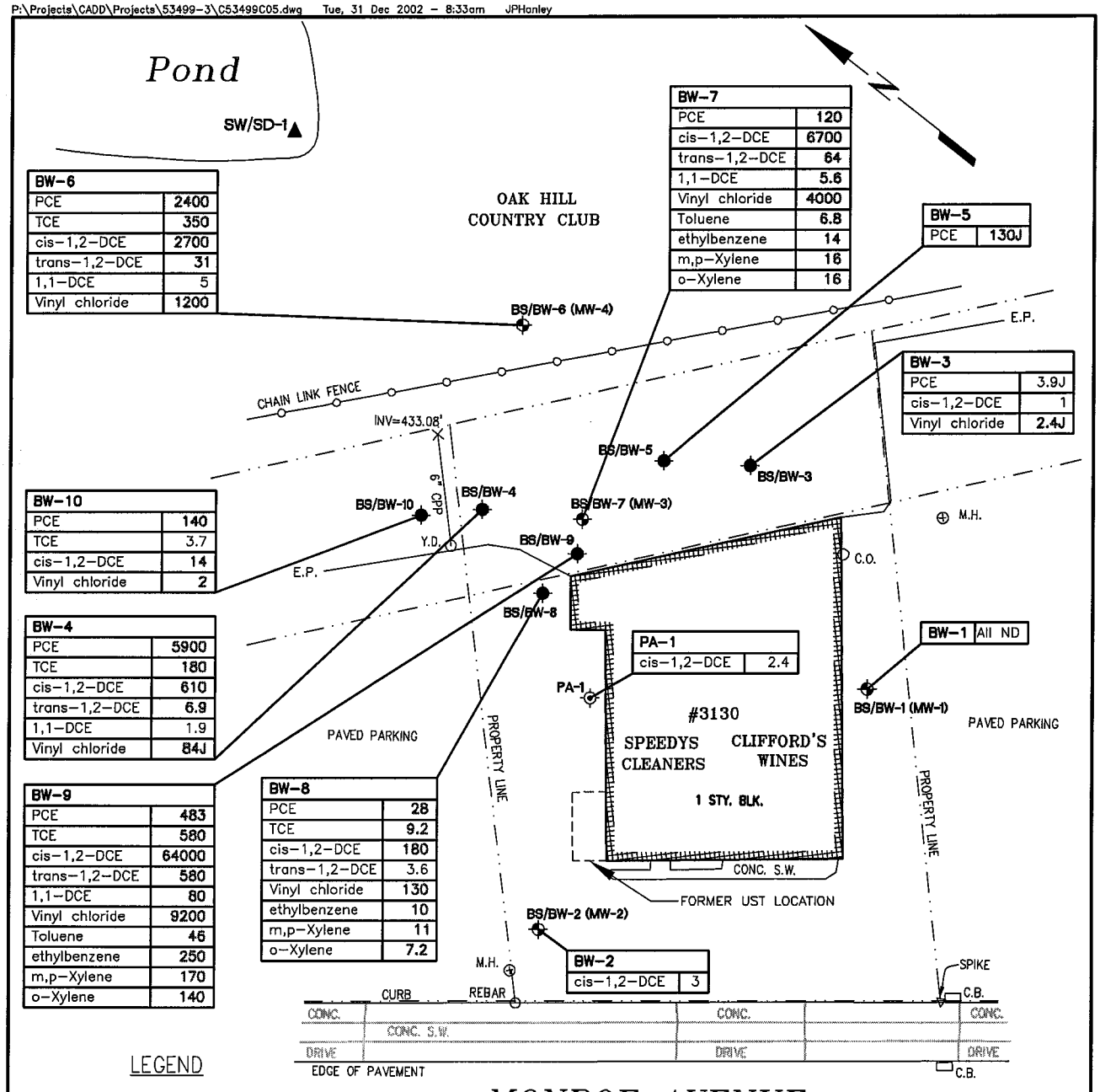


LEGEND

PA-1	2 INCH MONITORING WELL
BS/BW-1 (MW-1)	1 INCH MICROWELL
BS/BW-10	BORING LOCATION
SW/SD-1	SURFACE WATER & SEDIMENT SAMPLE LOCATION
M.H.	MAN HOLE
Y.D.	YARD DRAIN
	BUILDING LINE
C.B.	CATCH BASIN
C.O.	CLEAN OUT
	CHAIN LINK FENCE
	PROPERTY LINE
E.P.	EDGE OF PAVEMENT

0 20 40
Scale in feet

FIGURE 3-3
GEOPROBE BORING LOCATIONS
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK
Harding Lawson Associates



LEGEND

- PA-1 — 2 INCH MONITORING WELL
- BS/BW-1 (MW-1) — 1 INCH MICROWELL
- BS/BW-10 — BORING LOCATION
- SW/SD-1 — SURFACE WATER & SEDIMENT SAMPLE LOCATION
- M.H. — MAN HOLE
- Y.D. — YARD DRAIN
- BUILDING LINE
- C.B. — CATCH BASIN
- C.O. — CLEAN OUT
- CHAIN LINK FENCE
- PROPERTY LINE
- E.P. — EDGE OF PAVEMENT

NOTES:

SAMPLE RESULTS IN MICROGRAMS PER LITER. RESULTS ARE MAXIMUM ON-SITE RESULTS PER BORING.

2400 - RESULTS IN RED EXCEED NEW YORK STATE CLASS GA GROUNDWATER STANDARDS

0 20 40

Scale in feet

FIGURE 4-1
VOCs DETECTED IN GROUNDWATER
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Harding Lawson Associates

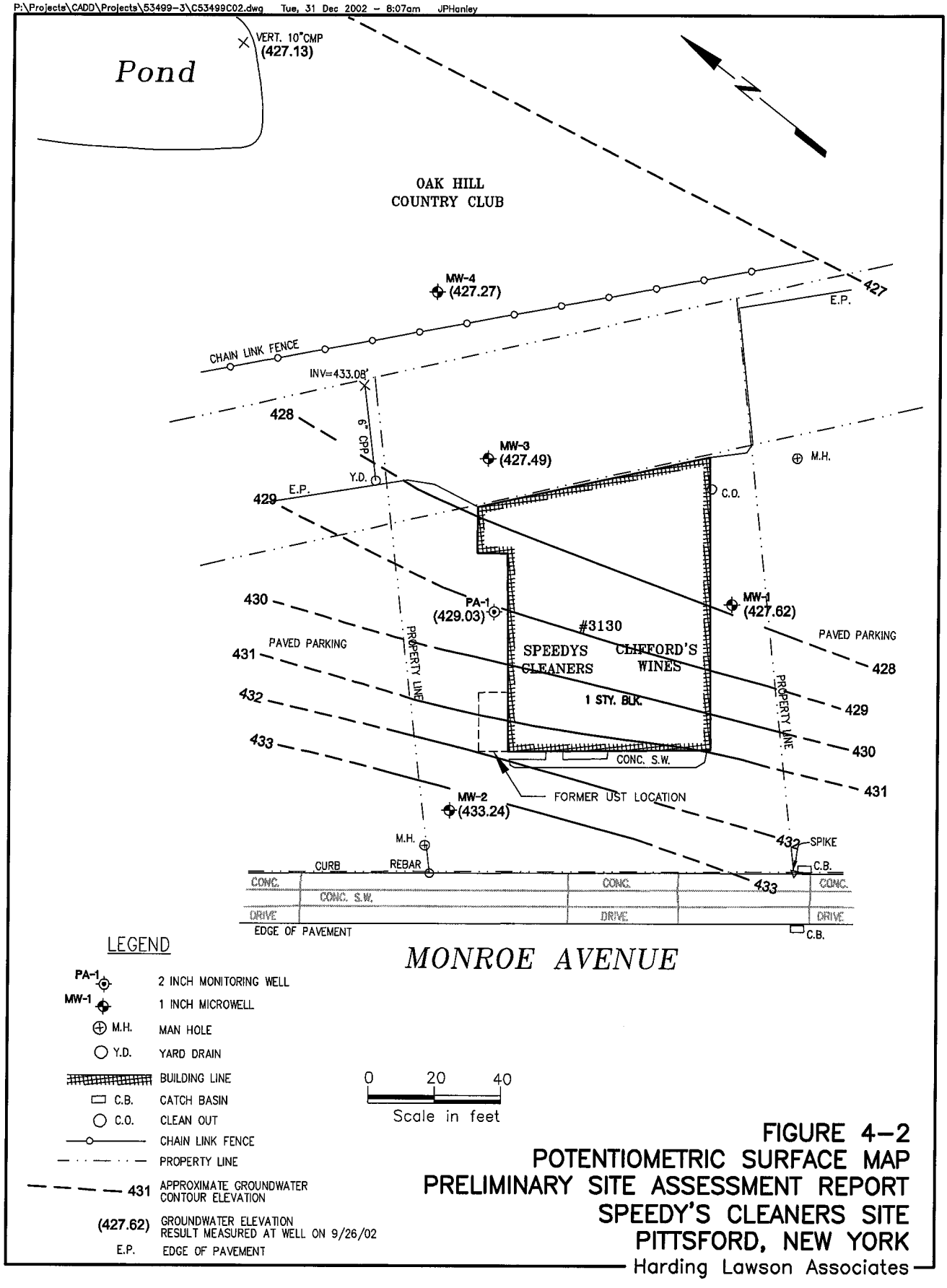


FIGURE 4-2
POTENTIOMETRIC SURFACE MAP
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK
Harding Lawson Associates

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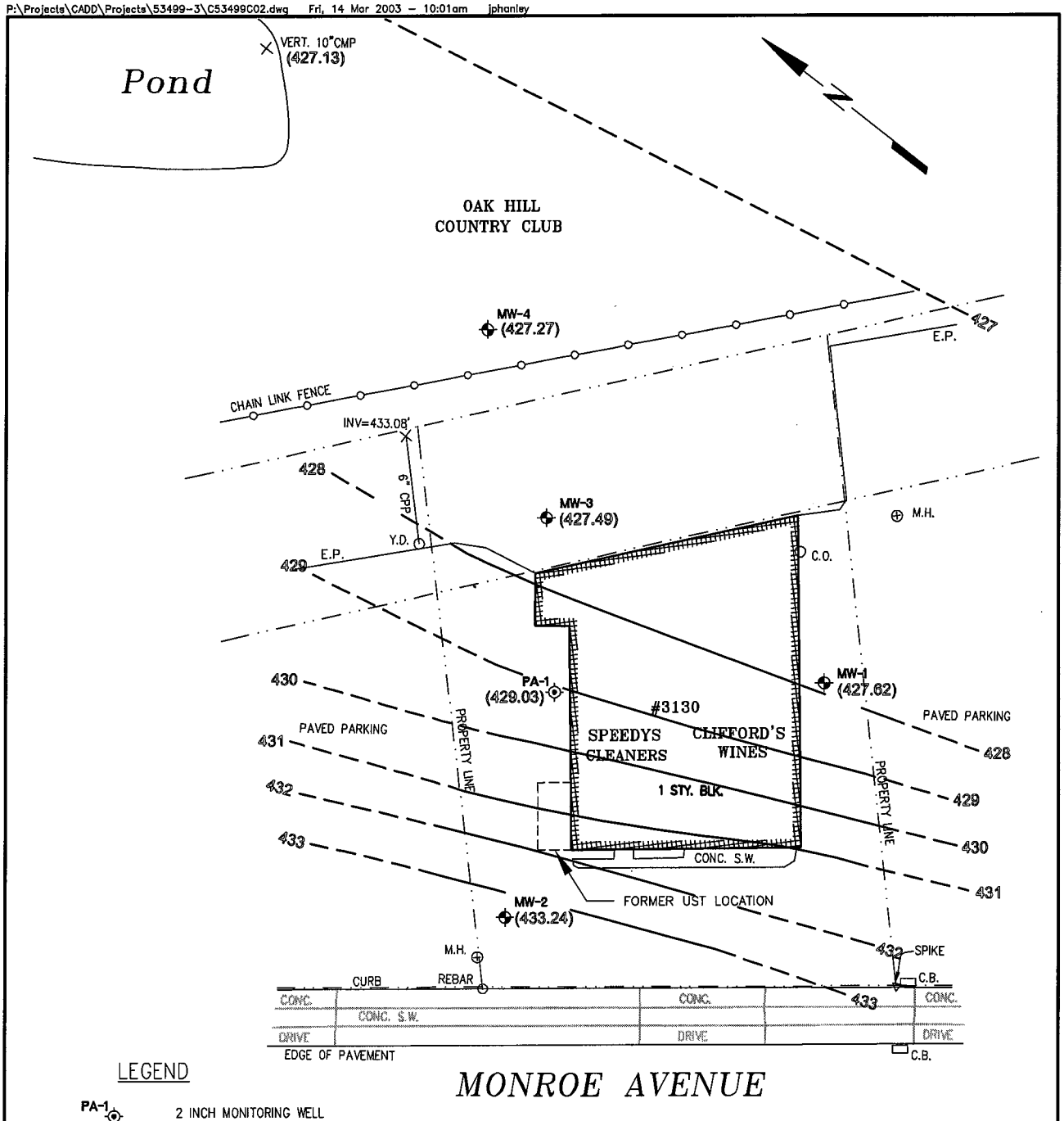


LEGEND

PA-1	2 INCH MONITORING WELL
MW-1	1 INCH MICROWELL
M.H.	MAN HOLE
Y.D.	YARD DRAIN
	BUILDING LINE
C.B.	CATCH BASIN
C.O.	CLEAN OUT
	CHAIN LINK FENCE
	PROPERTY LINE
431	APPROXIMATE GROUNDWATER CONTOUR ELEVATION
(427.62)	GROUNDWATER ELEVATION RESULT MEASURED AT WELL ON 9/26/02
E.P.	EDGE OF PAVEMENT

0 20 40

Scale in feet

FIGURE 4-3
POTENTIOMETRIC SURFACE MAP
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Harding Lawson Associates

SURFACE WATER AND SEDIMENT SAMPLE FIELD DATA RECORD

Project: NYSDEC - PSA-6
Project Number: 53499
Sample Location ID: SPSW00300002KK

Site: SPEEDYS
Date: 9/26/02
Time: Start: 1015 End: 1030
Signature of Sampler:

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:
[X] STREAM [ ] RIVER
[ ] POND/LAKE [ ] SEEP

WATER DEPTH AT SAMPLE LOCATION 0.5 (ft)

DEPTH OF SAMPLE FROM TOP OF WATER 0.1 (ft)

EQUIPMENT USED FOR COLLECTION:
[X] NONE, GRAB INTO BOTTLE
[ ] BOMB SAMPLER
[ ] PUMP

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[ ] DEIONIZED WATER
[X] ~~LIQUINOX SOLUTION~~ CRS 9/26/02
[ ] HEXANE
[ ] HNO_3 SOLUTION
[X] ~~POTABLE WATER~~
[X] NONE

VELOCITY MEASUREMENTS OBTAINED? [ ] YES, SEE FLOW MEASUREMENT DATA RECORD No
stream 7' wide, 2' deep, fast moving

TEMPERATURE 17.3 Deg. C. SPEC. COND. 0.582 µmhos/cm pH 7.91 Units DISS. O_2 9.11 ppm

[ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID:

SAMPLE LOCATION SKETCH:
[X] YES
[ ] NO

METHOD USED:
[ ] WINKLER
[X] PROBE

SEDIMENT INFORMATION

DEPTH OF SEDIMENT SAMPLE 0.2 (ft)

EQUIPMENT USED FOR COLLECTION:
[ ] GRAVITY CORER
[ ] S.S. SPLIT SPOON
[ ] DREDGE
[X] HAND SPOON
[ ] ALUMINUM PANS
[ ] SS BUCKET
[ ]

TYPE OF SAMPLE COLLECTED:
[X] DISCRETE
[ ] COMPOSITE

SAMPLE OBSERVATIONS:
[ ] ODOR
[X] COLOR Brown
[ ]

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[ ] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[X] POTABLE WATER
[ ] NONE

SEDIMENT TYPE:
[ ] CLAY
[X] SAND - a little
[ ] ORGANIC
[X] GRAVEL

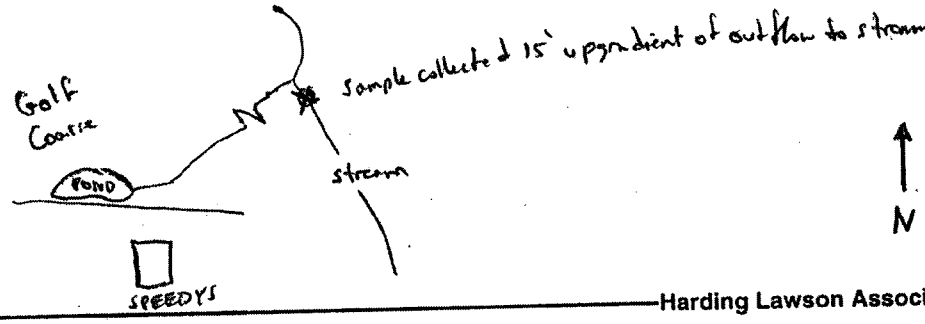
[ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID:

SAMPLES COLLECTED

SAMPLE TIME - 1020

✓ IF REQUIRED AT THIS LOCATION	MATRIX: SURFACE WATER	MATRIX: SEDIMENT	✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
[X] VOC	[X]	[X]	[X]	80ml H_2O 4oz soil	[ ]	
[ ] SVOC	[ ]	[ ]	[ ]		[ ]	
[ ] PEST/PCB	[ ]	[ ]	[ ]		[ ]	
[ ] INORGANICS	[ ]	[ ]	[ ]		[ ]	
[ ] TPH	[ ]	[ ]	[ ]		[ ]	
[ ] TCLP	[ ]	[ ]	[ ]		[ ]	
[X] TOC	[ ]	[X]	[ ]	4oz soil	[ ]	

NOTES/SKETCH



Sample collected 15' upgradient of outflow to stream

Harding Lawson Associates

SURFACE WATER AND SEDIMENT SAMPLE FIELD DATA RECORD

Project: NYSDEC - PSA - 6
Site: SPEEDY CLEANERS
Project Number: 53499
Date: 9/26/02
Sample Location ID: SPSW002000002XX
Time: Start: 1000 End: 1045
SPSD002000002XX
Signature of Sampler:

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:
[X] STREAM [ ] RIVER
[ ] POND/LAKE [ ] SEEP

WATER DEPTH AT SAMPLE LOCATION 1 (ft)

DEPTH OF SAMPLE FROM TOP OF WATER 0.1 (ft)

EQUIPMENT USED FOR COLLECTION:
[X] NONE, GRAB INTO BOTTLE
[ ] BOMB SAMPLER
[ ] PUMP

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[ ] DEIONIZED WATER
[ ] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[ ] POTABLE WATER
[ ] NONE

VELOCITY MEASUREMENTS OBTAINED? [ ] YES, SEE FLOW MEASUREMENT DATA RECORD No - stream 7' wide, 2' deep - moving

TEMPERATURE 16.6° Deg. C. SPEC. COND. 0.779 µmhos/cm pH 7.54 Units DISS. O_2 6.12 ppm

[ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID: SY

SAMPLE LOCATION SKETCH:
[Y] YES
[ ] NO

METHOD USED:
[ ] WINKLER
[ ] PROBE

SEDIMENT INFORMATION

DEPTH OF SEDIMENT SAMPLE 0.4 (ft)

EQUIPMENT USED FOR COLLECTION:
[ ] GRAVITY CORER
[ ] S.S. SPLIT SPOON
[ ] DREDGE
[X] HAND SPOON
[ ] ALUMINUM PANS
[ ] SS BUCKET
[ ]

TYPE OF SAMPLE COLLECTED:
[X] DISCRETE
[ ] COMPOSITE

SAMPLE OBSERVATIONS:
[ ] ODOR
[Y] COLOR Grey
[ ]

DECONTAMINATION FLUIDS USED:
✓ ALL USED
[ ] ETHYL ALCOHOL
[ ] 25% METHANOL/ 75% ASTM TYPE II WATER
[ ] DEIONIZED WATER
[X] LIQUINOX SOLUTION
[ ] HEXANE
[ ] HNO_3 SOLUTION
[Y] POTABLE WATER
[ ] NONE

SEDIMENT TYPE:
[X] CLAY
[ ] SAND
[ ] ORGANIC
[ ] GRAVEL

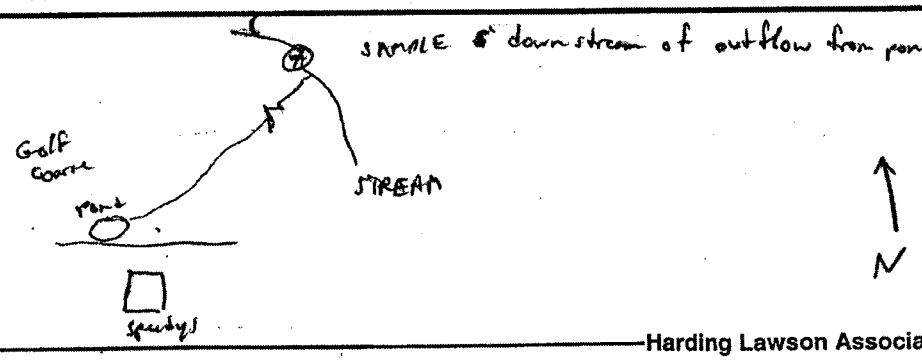
[ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID: SPSD004000002XY ~0720

SAMPLES COLLECTED

SAMPLE TIME = 1010

✓ IF REQUIRED AT THIS LOCATION	MATRIX: SURFACE WATER	MATRIX: SEDIMENT	✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
[X] VOC	[ ]	[Y]	[X]	80ml NO 4oz soil	[Y]	
[ ] SVOC	[ ]	[ ]	[ ]		[ ]	
[ ] PEST/PCB	[ ]	[ ]	[ ]		[ ]	
[ ] INORGANICS	[ ]	[ ]	[ ]		[ ]	
[ ] TPH	[ ]	[ ]	[ ]		[ ]	
[ ] TCLP	[ ]	[ ]	[ ]		[ ]	
[X] TOC	[N]	[X]	[ ]	4oz soil	[Y]	

NOTES/SKETCH



APPENDIX E

E.2 Sample Records

FIELD INSTRUMENTATION & MATERIAL QUALITY ASSURANCE RECORD

Project NYSDEC Site SPEEDY'S

Project No. 53499-2 Sampler Signature [signature]

Date 9/25/02

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
Horiba U-10 - NYSDEC-13		pH 4 3.98 pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		Cond. Std. 4.49 / 4.49 Cond. Std. ____ / ____ meter value
		Cond. Std. ____ / ____ Cond. Std. ____ / ____ meter value
		Cond. Std. ____ / ____ Cond. Std. ____ / ____ meter value
Dissolved Oxygen		Temp 17.2°C
Horiba U-10 - NYSDEC-13		Avg. Winkler Value ____ ppm Meter Value 9.59 ppm
Redox		
		Zobell Sol. Value ____ Meter Value ____
Photoionization Meter		
580 B ovm Pine # 01933 11.8 bulb		Zero/Zero Air? ☐Yes ☐No Span Gas Value 100 ppm Equiv. Meter Value 100 ppm Equiv.
		Zero/Zero Air? ☐Yes ☐No Span Gas Value ____ ppm Equiv. Meter Value ____ ppm Equiv.
Other		

Fluids/Materials Record

Deionized Water Source: ____ ABB-ES FOS ____ Portable System X Other

Trip Blank Water Source: X Lab; Lot No. ____

____ Other; Type ____ ID ____

Decontamination Fluids: Type Liquinox ID ____

Filtration Paper ID: (In Line) Manuf/Type ____ Lot No. ____ / ____

(Vacuum) Manuf/Type ____ Lot No. ____ / ____

Chemicals Used: HNO_3 Lot No. ____ ZnAOC Lot No. ____

H_2SO_4 Lot No. ____ Other Lot No. ____

HCL Lot No. ____ Other Lot No. ____

NaOH Lot No. ____

FIGURE 6-1
FIELD INSTRUMENTATION AND MATERIAL QUALITY ASSURANCE RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

FIELD INSTRUMENTATION & MATERIAL QUALITY ASSURANCE RECORD

Project NYSDEC-PSA-6 Site SPEEDY

Project No. 53499 Sampler Signature [signature]

Date 9/26/02

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
Horiba- U-10 - NYSDEC-IT		pH 4 7.99 pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		Cond. Std. 4.49 / 4.48 Cond. Std. ____ / ____ meter value
		Cond. Std. ____ / ____ Cond. Std. ____ / ____ meter value
		Cond. Std. ____ / ____ Cond. Std. ____ / ____ meter value
Dissolved Oxygen		Temp 17.4°
Horiba-U-10 NYSDEC-IT		Avg. Winkler Value ____ ppm Meter Value 9.25 ppm
Redox		
		Zobell Sol. Value ____ Meter Value ____
Photoionization Meter		
580 B OVM Pin #01933 - 11.8 bulb,	low	Zero/Zero Air? ☐Yes ☒No Span Gas Value 100 ppm Equiv. Meter Value 101 ppm Equiv.
		Zero/Zero Air? ☐Yes ☐No Span Gas Value ____ ppm Equiv. Meter Value ____ ppm Equiv.
Other		

Fluids/Materials Record

Deionized Water Source: ____ ABB-ES FOS ____ Portable System X Other

Trip Blank Water Source: X Lab; Lot No. ____

____ Other; Type ____ ID ____

Decontamination Fluids: Type Liquinox ID ____

Filtration Paper ID: (In Line) Manuf/Type ____ Lot No. ____ / ____

(Vacuum) Manuf/Type ____ Lot No. ____ / ____

Chemicals Used: HNO_3 Lot No. ____ ZnAOC Lot No. ____

H_2SO_4 Lot No. ____ Other Lot No. ____

HCL Lot No. ____ Other Lot No. ____

NaOH Lot No. ____

FIGURE 6-1
FIELD INSTRUMENTATION AND MATERIAL QUALITY ASSURANCE RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

GROUNDWATER SAMPLE FIELD DATA RECORD

Project: NYSDEC PSA-6
Site: SPEEDYS
Project Number: 53499 -2
Date: 9/25/02
Time: Start: 1000 End: 1040
Sample Location ID: EPBW0010180 2FX
Signature of Sampler: [signature]

Water Level/Well Data

Well Depth 19 Ft. x Measured ___ Historical

x Top of Well ___ Top of Protective Casing

Well Riser Stick-up -.2 Ft. (from ground)

Protective -.2 Ft. Casing/Well Difference

Protective ___ Ft. Casing

Depth to Water 13.6 Ft.

Well Material: x PVC ___ SS

Well Locked?: ___ Yes x No

Well Dia. ___ 2 inch ___ 4 inch ___ 6 inch 1 inch

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

Height of Water Column 5.4 Ft. X ___ .16 Gal/Ft. (2 in.) ___ .65 Gal/Ft. (4 in.) ___ 1.5 Gal/Ft. (6 in.) 0.045 Gal/Ft. (1 in.) = 0.22 Gal/Vol. 1.1 Total Gal Purged

Well Integrity:	Yes	No
Prot. Casing Secure		
Concrete Collar Intact		
Other not yet installed		

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For)

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

Decontamination Fluids Used:

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

Field Analysis Data

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

100 ml/min 1020

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

Purge Data	@ 0.25 Gal.	@ 0.60 Gal.	@ 1.0 Gal.	@ 1.1 Gal.	@ ___ Gal.
Temperature, Deg. C	18.5	18.5	19.0	Collect	
pH, units	7.38	7.34	7.35	sample	
Specific Conductivity (μmhos/cm)	3.20	3.26	3.25	~~201~~ @	
Turbidity (NTUS)	664	999	201		
Oxidation - Reduction, +/- mv	~~2.0~~	-	-	1020	
Dissolved Oxygen, ppm	2.0	1.	2.49		

DTW 11.5'

Sample Collection Requirements
(✓ If Required at this Location)

Analytical Parameter	✓ If Sample Collected	Preservation Method	Volume Required	Sample Bottle ILot Nos.
x VOCs	x	4°C	2x40 ml	
SVOCs		4°C	2x1 liter AG	
Inorganics		HNO_3,4°C	1x1 liter P	
Cyanide		NaOH,4°C	1x500ml P	
Nitrate/Sulfate		H_2SO_4,4°C	1x1 liter P	
Nitrate/Phosphate		H_2SO_4,4°C	1x1 liter P	
Pest/PCB		4°C	3x1 liter AG	
TPH		H_2SO_4,4°C	2x1 liter AG	
TOC		H_2SO_4,4°C	1x1 liter P	

Notes: screen 9-19' bgs
- micro well set grab sample
offsite - sold + MS/MSD

FIGURE 4-14
GROUNDWATER SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Harding Lawson Associates

TABLES

TABLE 4-1
GEOPROBE SOIL SAMPLING RESULTS
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Location		BS-001	BS-002	BS-003	BS-003	BS-004	BS-005	BS-005 (dup)
Sample ID		SPBS00101102FX	SPBS00200902FX	SPBS00300802FX	SPBS00301102FX	SPBS00401002FX	SPBS00501102FX	SPBS00501102FD
Sample Date		09/25/02	09/25/02	09/25/02	09/25/02	09/25/02	09/25/02	09/25/02
Depth (ft bgs)		11-12	9-10	8-9	11-11.5	10-10.5	11-11.5	11-11.5
Lab		ON	ON	ON	ON	ON	ON	ON
	Soil Cleanup							
Parameter	Objective*(µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)
Tetrachloroethene	1,400	--	--	--	--	**22,000**	640 J	690
Trichloroethene	700	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	300**	--	--	--	--	--	--	--
Vinyl chloride	200	--	--	--	--	--	--	--
Ethylbenzene	5,500	--	--	--	--	--	420	380
m,p-Xylene	1,200	--	--	--	--	--	290	360
Methylene chloride	100	--	--	--	--	--	--	--
Toluene	1,500	--	--	--	--	--	--	--
Benzene	60	--	--	--	--	--	--	--
Acetone	110	--	--	--	--	--	--	--

NOTES:

ft bgs	=	feet below ground surface
LAB	=	ON =BUCK on-site field laboratory, OFF = H2M off-site laboratory.
*	=	From Technical Administrative Guidance Memorandum (TAGM) 94-4046, "Determination of Soil Cleanup Objectives and Cleanup Levels" (NYSDEC, 1994).
**	=	Calculated value based on TAGM 94-4046
Parameter	=	Only detected compounds are shown.
Result	=	Only analytical results above the project detection limit are shown.
µg/Kg	=	micrograms per kilogram
J Qualifier	=	Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less then the specified minimum detection limit but is greater than zero.
dup	=	duplicate sample
--	=	Not detected at a concentration above the project reporting limit
22000	=	Values in bold exceed the Soil Cleanup Objective.

TABLE 4-1
GEOPROBE SOIL SAMPLING RESULTS
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Location		BS-006	BS-007	BS-007	BS-007	BS-007 (dup)	BS-008	BS-009	BS-009
Sample ID		SPBS00600701FX	SPBS00700602FX	SPBS00701102FX	SPBS00701102XX	SPBS00001102XX	SPBS00801102FX	SPBS00900302FX	SPBS00900602FX
Sample Date		09/26/02	09/26/02	09/26/02	09/26/02	09/26/02	09/27/02	09/27/02	09/27/02
Depth (ft bgs)		7-8	6-7	11-12	11-12	11-12	11-12	3-4	6-6.5
Lab		ON	ON	ON	OFF	OFF	ON	ON	ON
	Soil Cleanup								
Parameter	Objective*(µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)	Result (µg/Kg)
Tetrachloroethene	1,400	1300	**4,000**	--	--	--	**4,200**	**110,000**	**8,500**
Trichloroethene	700	180	--	--	--	--	115	--	--
cis-1,2-Dichloroethene	300**	--	--	--	22 (cis + trans)	--	**3,100**	**4,200**	--
Vinyl chloride	200	--	--	--	3 J	--	130	--	--
Ethylbenzene	5,500	--	--	--	8 J	--	--	--	--
m,p-Xylene	1,200	--	--	--	19 (m + p + o)	--	--	--	--
Methylene chloride	100	--	--	--	2	--	--	--	--
Toluene	1,500	--	--	--	6 J	--	--	--	--
Benzene	60	--	--	--	2J	--	--	--	--
Acetone	110	--	--	--	38	--	--	--	--

NOTES:

ft bgs	=	Feet below ground surface.
LAB	=	ON =BUCK on-site field laboratory, OFF = H2M off-site laboratory.
*	=	From Technical Administrative Guidance Memorandum (TAGM) 94-4046, "Determination of Soil Cleanup Objectives and Cleanup Levels" (NYSDEC, 1994).
**	=	Calculated value based on TAGM 94-4046
Parameter	=	Only detected compounds are shown.
Result	=	Only analytical results above the project detection limit are shown.
µg/Kg	=	micrograms per kilogram
J Qualifier	=	Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less then the specified minimum detection limit but is greater than zero.
dup	=	duplicate sample
--	=	Not detected at a concentration above the project reporting limit
22000	=	Values in bold exceed the Soil Cleanup Objective.

TABLE 4-2
GROUNDWATER SAMPLING RESULTS
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Location			MW-PA1		BW-001		BW-001		BW-002		BW-003		BW-003	
Sample ID			SPMWPA101102FX		SPBW00101801FX		SPBW00101801XX		SPBW00201302FX		SPBW00301102FX		SPBW00301602FX	
Sample Date			09/25/02		09/25/02		09/25/02		09/25/02		09/25/02		09/25/02	
Depth (ft bgs)			11-13		17-19		17-19		13-14		11-13		26	
Lab			ON		ON		OFF		ON		ON		ON	
Parameter	TOG 1.1.1 (µg/L)	CR	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF
Tetrachloroethene	5	S	--		--		--		--		3.9	J	--	
Trichloroethene	5	S	--		--		--		--		--		--	
cis-1,2-Dichloroethene	5	S	2.4		--		--		3		1		--	
trans-1,2-Dichloroethene	5	S	--		--		--		--		--		--	
1,1-Dichloroethene	5	S	--		--		--		--		--		--	
Vinyl chloride	2	S	--		--		--		--		2	J	**2.4**	J
Toluene	5	S	--		--		--		--		--		--	
ethylbenzene	5	S	--		--		--		--		--		--	
m,p-Xylene	5	S	--		--		na		--		--		--	
o-Xylene	5	S	--		--		na		--		--		--	
Xylene (total)	*		na		na		--		na		na		na	
Benzene	1	S	--		--		--		--		--		--	
chloromethane	5	S	na		na		--		na		na		na	
2-Hexanone	50	G	na		na		--		na		na		na	
Styrene	5	S	na		na		--		na		na		na	
1,2-dichloropropane	1	S	na		na		--		na		na		na	
2-Butanone	50	G	na		na		--		na		na		na	
MBTE	10	G	na		na		--		na		na		na	
Acetone	50	G	na		na		--		na		na		na	
Chloroform	7	S	--		--		--		--		--		--	

NOTES:

ft bgs	=	Feet below ground surface.
LAB	=	ON = BUCK on-site field laboratory, OFF = H2M off-site laboratory.
TOG 1.1.1	=	Values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).
CR	=	Criteria: S = New York State Standard; G = New York State Guidance;** = no standard or guidance for total.
Parameter	=	Only detected compounds are shown.
Result	=	Only analytical results at concentrations greater than the project reporting limits are shown.
µg/L	=	micrograms per liter
QF	=	Qualifier
J	=	Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less then the specified minimum detection limit but is greater than zero.
dup	=	duplicate sample
--	=	Not detected at a concentration greater than the prject reporting limit.
93	=	Values in bold exceed the state standards or guidance values.
na	=	not analyzed
*	=	standards for individual xylenes, but not for total xylenes
**	=	exceeds standard for o-xylene, m-xylene, and/or p-xylene.

TABLE 4-2
GROUNDWATER SAMPLING RESULTS
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Location			BW-007		BW-007		BW-007 (Dup)		BW-008		BW-009		BW-010		BW-010 (Dup)	
Sample ID			SPBW00701602FX		SPBW00701602XX		SPBW00001602XX		SPBW00801401FX		SPBW00901402FX		SPBW01001502FX		SPBW01001502FD	
Sample Date			09/26/02		09/26/02		09/26/02		09/27/02		09/27/02		09/27/02		09/27/02	
Depth (ft bgs)			16-17 (from well)		16-17 (from well)		16-17 (from well)		14.5-16.5		14-16		15-17		15-17	
Lab			ON		OFF		OFF		ON		ON		ON		ON	
	TOG 1.1.1															
Parameter	(µg/L)	CR	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF	Result (µg/L)	QF
Tetrachloroethene	5	S	**34**		**37**		**37**		**28**		**483**		**140**		**140**	
Trichloroethene	5	S			3		2		**9.2**		**580**		3.7		3.7	
cis-1,2-Dichloroethene	5	S	**5,600**		**6,300**		**4,300**		**180**		**64,000**		**14**		**12**	
trans-1,2-Dichloroethene	5	S	**46**		**54**		**65**		3.6		**580**		--		--	
1,1-Dichloroethene	5	S	**5.6**		**11**		**9**				**80**		--		--	
Vinyl chloride	2	S	**4,000**		**3,500**		**2,100**		**130**		**9,200**		2		**2.3**	
Toluene	5	S	**6.8**		**8**		**8**		--		**46**		--		--	
ethylbenzene	5	S	**14**		**20**		**20**		**10**		**250**		--		--	
m,p-Xylene	5	S	**16**		na		na		**11**		**170**		--		--	
o-Xylene	5	S	**16**		na		na		**7.2**		**140**		--		--	
Xylene (total)	*		na		**23****		**23****		na		na		na		na	
Benzene	1	S	--		1		0.9	J	--		--		--		--	
chloromethane	5	S	na		**22**		**22**		na		na		na		na	
2-Hexanone	50	G	na		4	J	4	J	na		na		na		na	
Styrene	5	S	na		0.6	J	0.6	J	na		na		na		na	
1,2-dichloropropane	1	S	na		--		--		na		na		na		na	
2-Butanone	50	G	na		--		--		na		na		na		na	
MBTE	10	G	na		0.6	J	--		na		na		na		na	
Acetone	50	G	na		11		11		na		na		na		na	
Chloroform	7	S	--		0.8	J	0.9	J	--		--		--		--	

NOTES:

ft bgs	=	Feet below ground surface.
LAB	=	ON = BUCK on-site field laboratory, OFF = H2M off-site laboratory.
TOG 1.1.1	=	Values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).
CR	=	Criteria: S = New York State Standard; G = New York State Guidance.
Parameter	=	Only detected compounds are shown.
Result	=	Only analytical results at concentrations greater than the project reporting limits are shown.
µg/L	=	micrograms per liter
QF	=	Qualifier
J	=	Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less then the specified minimum detection limit but is greater than zero.
dup	=	duplicate sample
--	=	Not detected at a concentration greater than the prject reporting limit.
93	=	Values in bold exceed the state standards or guidance values.
na	=	not analyzed
*	=	standards for individual xylenes, but not for total xylenes
**	=	exceeds standard for o-xylene, m-xylene, and/or p-xylene

TABLE 4-3
SURFACE WATER SAMPLING RESULTS
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Location	SW-1	SW-2	SW-3
Sample ID	SPSW00100002XX	SPSW00200002XX	SPSW00300002XX
Sample Date	09/26/02	09/26/02	09/26/02
Depth (ft below surface)	0-1	0-1	0-1
Lab	ON	ON	ON
Parameter	Result	Result	Result
All Target VOCs	ND	ND	ND

NOTES:

ft below surface	=	feet below surface of water.
Lab	=	ON = BUCK on-site field laboratory.
Parameter	=	Only detected compounds are shown.
VOC	=	volatile organic compound
Result	=	Analytical laboratory result
ND	=	No compounds detected at concentrations above the project reporting limit.

TABLE-4-4
SEDIMENT SAMPLE RESULTS
OFF-SITE ANALYTICAL LABORATORY DATA
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Location	SD-1	SD-2	SD-3
Sample ID	SPSD00100002XX	SPSD00200002XX	SPSD00300002XX
Sample Date	09/26/02	09/26/02	09/26/02
Parameter	Result	Result	Result
All target VOCs	ND	ND	ND
TOC (mg/Kg-dry)	32,800	19,600	8,970

NOTES:

VOC	=	volatile organic compound
ND	=	No compounds detected at concentrations above the project reporting limit.
TOC	=	total organic carbon
mg/Kg	=	milligrams per kilogram

APPENDIX 2

Passero Associates November 1999 Fuel Oil Remediation Report

SPEEDY'S CLEANERS
3130 MONROE AVENUE
PITTSFORD, NEW YORK

SPILL # 9870611
REMEDIAL REPORT

PREPARED BY:

PASSERO ASSOCIATES, P.C.
100 LIBERTY POLE WAY
ROCHESTER, NEW YORK 14604

NOVEMBER 1999

P.N. 99018.07

Passero Associates, P.C.

Engineering
Architecture
Surveying
Planning

November 8, 1999

Mitchell Williams, Esq.
600 First Federal Plaza
Rochester, NY 14614

RE: Fuel Oil Remediation
3130 Monroe Avenue
Spill # 9870611

Dear Mr. Williams:

Pursuant to our October 7, 1999 proposal to you, Passero Associates, P.C. performed the remediation at the Speedy's Cleaners facility during the week of October 21 through October 29, 1999:

INTRODUCTION

During Passero Associates Phase I and follow-up Phase II investigations of the Speedy's site, suspected contamination was confirmed during several rounds of sampling in the RG&E right-of-way to the north of the Speedy's parcel. The dry-cleaning solvent perchloroethylene was detected in soils relative to historic use of the subject building as a dry cleaner.

Concurrently with the above Phase II sampling, an out-of-service 1000-gallon underground fuel oil tank was identified and removed from the southwest corner of the Speedy's building. During tank removal, contamination was identified in the tank pit, and Spill # 9870611 was reported to the NYSDEC Region 8 Spills Unit.

Discussions with the NYSDEC Region 8 Spills Unit and Hazardous Waste Remediation Unit resulted in additional sampling being performed to delineate two discrete waste streams.

After additional sampling was performed, as required by NYSDEC to confirm that no chlorinated compounds were present in the fuel oil contaminated soils (waste characterization analytical attached), Passero Associates, P.C. conducted remediation of the fuel oil spill. Water levels measured on September 14, 1999 in three well points installed during the Phase II work indicate that the groundwater flow direction beneath the former tank pit is to the east-northeast, beneath the Speedy's slab (see map).

METHODOLOGY

Because a portion of the fuel oil plume is present beneath the Speedy's building slab, and a portion of the fuel oil plume is co-mingled with the perchloroethylene contamination to the north, all of the fuel oil contaminated soil could not be removed for disposal as non-hazardous petroleum-contaminated waste at Monroe County's Mill Seat Landfill.

100 Liberty Pole Way
Rochester, NY 14604

716-325-1000 FAX: 716-325-1691 E-mail: passero@passero.com

The DEC-accepted remedial plan consisted of removing the fuel oil contaminated soil from the tank pit, and the most highly contaminated soils to the north. Excavation of the fuel oil contamination did not continue as far north as where chlorinated compounds have been detected in soils (data enclosed). The contaminated soils that were left in place are being treated in place by bioremedial measures; four injection wells were installed to introduce microorganisms to the subsurface that utilize fuel oil and chlorinated compounds as a food source.

CONTAMINATED SOIL REMOVAL

Approximately 7 feet of clean fill soils were present above the zone of fuel oil contamination. During excavation, Passero Associates screened excavated soils with an organic vapor (OVM) to determine contamination. Clean fill soils were staged on site to be used as backfill. The fuel-oil-contaminated soil had previously been accepted for disposal as a petroleum contaminated soil at Monroe County's Mill Seat Landfill.

During excavation, when contamination was identified by odor, stained soils, or elevated OVM readings, contaminated soils were loaded directly into trucks for transport to the landfill. Soils from approximate depths ranging from 7 feet to 10 feet in the contaminated zone were removed; at an approximate depth of 10 feet, ground water was encountered and soils were left in place. Excavation was conducted along the western wall of Speedy's, and was stopped at a point south of the southernmost extent of the chorlinated compounds. Mill Seat Bills of Lading indicate that 80.2 tons of soil were disposed of at the landfill (copies enclosed).

BIOMEDIATION

As indicated on the enclosed Site Map (4) four-inch diameter injection wells were installed for introduction of the microbes to the subsurface. Two of the wells were installed near the former tank pit at the upgradient end of the fuel oil plume; one of the wells was installed next to the building to treat the subslab contamination; and one well was added to the north.

One 55-gallon drum of concentrated microbes was introduced to each well on October 29, 1999. Lambda Bioremedation Systems Inc. (Lambda) supplied a mixture of 335 microbes that is effective in degrading both petroleum compounds and chlorinated compounds. A copy of the Lambda Corrective Action Plan for the Speedy's site is enclosed.

STARS BASELINE SAMPLING

Five soil samples were collected from the pit after contaminated soil removal, and analyzed by EPA methods 8021/8270 to characterize the degree of contamination left in the ground in conformance with NYSDEC Stars Memo #1. In addition to the 4-inch-diameter injection wells, a 2-inch-diameter groundwater monitoring well was installed to characterize groundwater conditions. The monitoring well was installed in clean, dry fill soils, and no water had collected in the well at the time that the pit samples were collected. For the baseline groundwater sample, the sample collected from D2 (approximately 10 feet north of the excavated soil pit) in July 1999 is indicative of pre-remedial levels, in close proximity to the well installed during this remedial fieldwork. Baseline soil and groundwater levels of all detected STARS 8021/8270 compounds are presented in Table 1.

CONCLUSION

Passero Associates has successfully completed the remedial plan for the fuel oil waste stream at the Speedy's site, as agreed upon with NYSDEC. The contaminated soils from around, and to the north of the former tank pit were excavated and disposed of at Mill Seat Landfill; the remaining contamination left in the ground is being treated in place by bioremediation. A groundwater monitoring well is in place to monitor remedial progress in the future; the four injection wells are in place if further addition of microbes is warranted.

Very truly yours,

PASSERO ASSOCIATES, P.C.

Peter S. Morton, C.P.G.
Certified Professional Geologist

Arpad Kolozsvary, R.E.M.
Director of Environmental Services

cc: Michael Zamiarski - NYSDEC
William Frohm – Town of Pittsford

TABLE I

BASELINE SAMPLES

TANK PIT SOILS – BOTTOM

STARS 8021 VOC COMPOUND	CONCENTRATION (ug/Kg)
Ethylbenzene	232
m,p-Xylene	379
o-Xylene	63.0
Isopropylbenzene	163
n-Propylbenzene	266
1,3,5-Trimethylbenzene	496
1,2,4-Trimethylbenzene	2470
sec-Butylbenzene	382
p-Isopropyltoluene	140
Naphthalene	1140

STARS 8270 SVOC COMPOUND	CONCENTRATION (ug/Kg)
Naphthalene	1530
Fluorene	972
Phenanthrene	2620
Pyrene	450

TANK PIT SOILS – NORTH COMPOSITE

STARS 8021 VOC COMPOUND	CONCENTRATION (ug/Kg)
Isopropylbenzene	72.5
n-Propylbenzene	137
1,3,5-Trimethylbenzene	196
tert-Butylbenzene	126
1,2,4-Trimethylbenzene	1180
sec-Butylbenzene	203
p-Isopropyltoluene	193
Naphthalene	715

STARS 8270 SVOC COMPOUND	CONCENTRATION (ug/Kg)
Naphthalene	1060
Fluorene	528
Phenanthrene	1090

TABLE 1 (Cont.)

TANK PIT SOILS – SOUTH COMPOSITE

STARS 8021 VOC COMPOUND	CONCENTRATION (ug/Kg)
Isopropylbenzene	26.3
n-Propylbenzene	57.7
1,3,5-Trimethylbenzene	159
tert-Butylbenzene	26.7
1,2,4-Trimethylbenzene	158
sec-Butylbenzene	143
p-Isopropyltoluene	275

STARS 8270 SVOC COMPOUND	CONCENTRATION (ug/Kg)
Naphthalene	1950
Acenaphthene	638
Fluorene	1130
Fluoranthene	1950
Anthracene	502
Phenanthrene	4050
Benzo (a) anthracene	720
Chrysene	799
Pyrene	2150
Benzo (b) fluoranthene	672
Benzo (k) fluoranthene	541
Benzo (g,h,i) perylene	451
Benzo (a) pyrene	710
Indeno (1,2,3-cd) pyrene	537

TABLE 1 (Cont.)

TANK PIT SOILS – EAST COMPOSITE

STARS 8021 VOC COMPOUND	CONCENTRATION (ug/Kg)
Ethylbenzene	37.8
m,p-Xylene	104
Isopropylbenzene	361
n-Propylbenzene	696
1,3,5-Trimethylbenzene	859
tert-Butylbenzene	339
1,2,4-Trimethylbenzene	3160
sec-Butylbenzene	578
p-Isopropyltoluene	630
Naphthalene	1290

STARS 8270 SVOC COMPOUND	CONCENTRATION (ug/Kg)
Naphthalene	4390
Fluorene	1590
Phenanthrene	3470
Pyrene	463

TANK PIT SOILS – WEST COMPOSITE

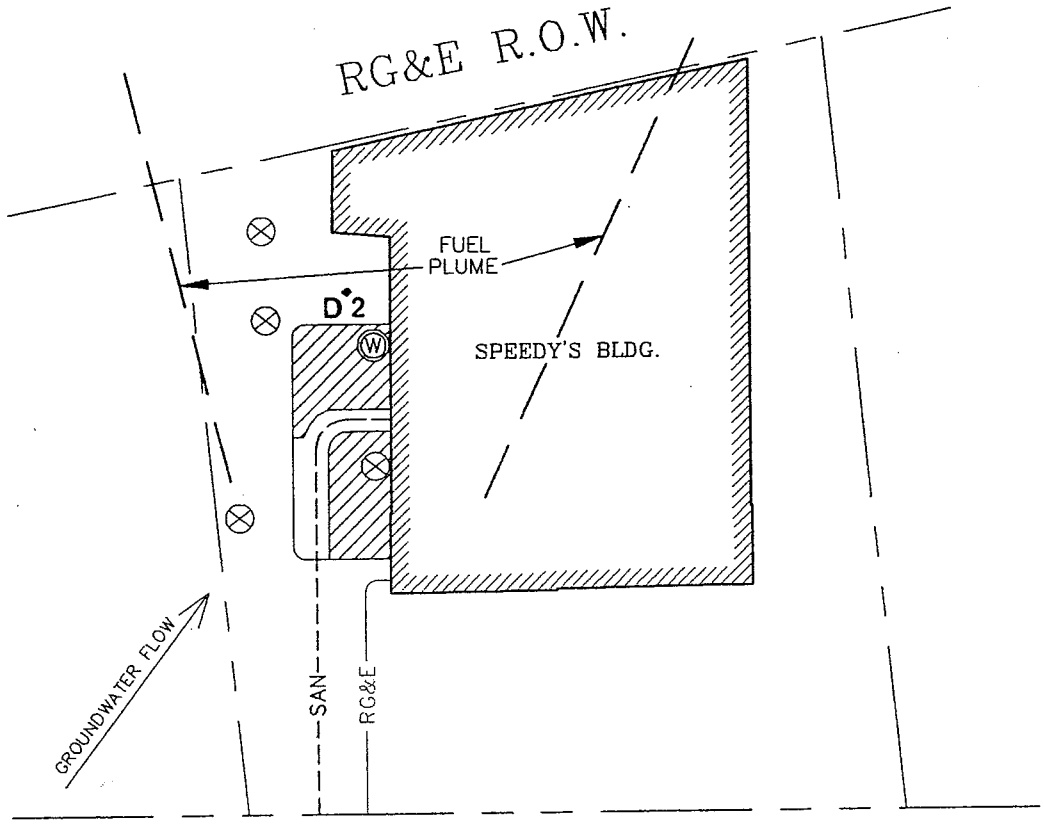
STARS 8021 VOC COMPOUND	CONCENTRATION (ug/Kg)
1,2,4-Trimethylbenzene	43.4
Naphthalene	209

STARS 8270 SVOC COMPOUND	CONCENTRATION (ug/Kg)
Non Detect	N/A

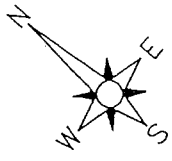
GROUNDWATER (D2, 7/8/99)

STARS 8021 VOC COMPOUND	CONCENTRATION (ug/Kg)
Benzene	7.5
m,p-Xylene	31.3
Isopropylbenzene	150.7
n-Propylbenzene	255.6
1,3,5-Trimethylbenzene	307.9
tert-Butylbenzene	222.0
1,2,4-Trimethylbenzene	2028.7
sec-Butylbenzene	298.3
p-Isopropyltoluene	221.0
n-Butylbenzene	433.4
Naphthalene	1250.7

STARS 8270 SVOC COMPOUND	CONCENTRATION (ug/Kg)
Non Detect	N/A



MONROE AVE.



LEGEND

⊗ – BIONUTRIENT INJECTION WELL

Ⓦ – GROUNDWATER MONITORING WELL

▨ – CONTAMINATED SOIL REMOVAL

Passero Associates, P.C.
100 Liberty Pole Way, Rochester, NY 14604
716-325-1000 FAX: 716-325-1691
Engineering
Architecture
Surveying
Planning

PROJECT: FUEL OIL REMEDIATION
TOWN OF PITTSFORD, COUNTY OF MONROE, STATE OF NEW YORK

DRAWING: SITE PLAN

CLIENT: SPEEDY'S CLEANERS
3130 MONROE AVENUE
PITTSFORD, N.Y. 14534

Partner in Charge	G.W.P.
Project Manager	A.K.
Drawn by	M.L.A.

PROJECT NO. 98018.07
DRAWING NO. 1 OF 1
SCALE 1"=30'
DATE NOV. 2, 1999

WASTE CHARACTERIZATION

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Soil/Sludge (STARS List)

Client:	Passero Associates	**Lab Project No.:**	99-0587
		Lab Sample No.:	2807
Client Job Site:	3130 Monroe Ave.		
		Sample Type:	Soil
Client Job No.:	99018.03		
		Date Sampled:	3/31/99
Field Location:	3130 Monroe Tank Pit	**Date Received:**	4/1/99
Field ID No.:	N/A	**Date Analyzed:**	4/5/99

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 585
Benzene	ND< 585
Toluene	ND< 585
Ethylbenzene	1988
m,p-Xylene	5348
o-Xylene	1150
Isopropylbenzene	891
n-Propylbenzene	2019
1,3,5-Trimethylbenzene	3951
tert-Butylbenzene	1660
1,2,4-Trimethylbenzene	13092
sec-Butylbenzene	1848
p-Isopropyltoluene	3729
n-Butylbenzene	ND< 585
Naphthalene	11720

Analytical Method: EPA 8021 NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: **Passero Associates**
Client Job Site: 3130 Monroe Ave.
Client Job No.: 99018
Field Location: 3130 Monroe Tank Pit
Field ID No.: N/A

Lab Project No. 99-0587
Lab Sample No. 2807
Sample Type: Soil
Date Sampled: 03/31/99
Date Received: 04/01/99
Date Analyzed: 04/05/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	4387
Acenaphthene	ND< 316
Fluorene	1719
Fluoranthene	ND< 316
Anthracene	ND< 316
Phenanthrene	4136
Benzo (a) anthracene	ND< 316
Chrysene	ND< 316
Pyrene	722
Benzo (b) fluoranthene	ND< 316
Benzo (k) fluoranthene	ND< 316
Benzo (g,h,i) perylene	ND< 316
Benzo (a) pyrene	ND< 316
Dibenz (a,h) anthracene	ND< 316
Indeno (1,2,3-cd) pyrene	ND< 316

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

990587S1.XLS

PARADIGM
Environmental Services, Inc.
179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-33

Client: Passero Associates
Client Job Site: 3130 Monroe Avenue
Client Job No.: 99018.03

Lab Project No.: 99-0587
Sample Type: Soil
Method: SW 846: 3050, 601C

Date(s) Sampled: 3/31/99
Date Received: 4/1/99
Date Analyzed: 4/6/99

Lab Sample No.	Field ID No.	Field Location	Lead Result (mg/kg)
2807	N/A	Tank Pit	36.7

ELAP ID No.: 10958

Comments:

Approved By: _____
Laboratory Director

File ID: 990587

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Pensky-Martin Ignitability

Client: Passero Associates

Client Job Site: 3130 Monroe Ave.

Client Job No.: 99018

Lab Project No.: 99-0587

Sample Type: Soil

Date Sampled: 03/31/99
Date Received: 04/01/99
Date Analyzed: 04/08/99

Lab Sample Number	Field Location	Analytical Method	Result (°C)
2807	3130 Monroe Tank Pit	SW846 1010	>70

ELAP ID: 10958

Approved By: _____
Laboratory Director

File ID: 990587FL.XLS

Passero Associates, P.C.

Engineering • Architecture • Surveying • Planning

100 Liberty Pole Way, Rochester, NY 14604 716-325-1000 Fax: 716-325-1691

FACSIMILE COMMUNICATION

FAXED 10-26-99

To: *Ed Harding* **Date:**

Organization: *Mill Seat Landfill* **Project No.:** *99018.07*

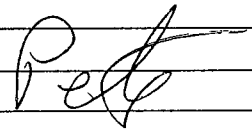
Fax No.: *494-3003* **No. of Pages:** *1*

From: *Peter S. Morton, C.P.G.*

Re: *Speedy's Soil*

Confirmatory samples documenting Non Detects of chlorinated compounds in the fuel oil waste stream. Piedmont will begin disposing of the Speedy's soil this afternoon.

Peter Morton



Please call sender at 716-325-1000 if you do not receive all pages of FAX.

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Halocarbon Analysis Report For Solids/Sludge

Client:	Passero Associates	**Lab Project No.:**	99-2048
		Lab Sample No.:	7005
Client Job Site:	Speedy's 3130 Monroe Ave.	**Sample Type:**	Soil
Client Job No.:	99078.07	**Date Sampled:**	10/25/1999
		Date Received:	10/25/1999
Field Location:	Pit North 7'-9'	**Date Analyzed:**	10/25/1999
Field ID No.:	N/A		

VOLATILE HALOCARBONS	RESULTS (ug/kg)
Chloromethane	ND< 9.58
Vinyl Chloride	ND< 9.58
Chloroethane	ND< 9.58
Bromomethane	ND< 9.58
Trichlorofluoromethane	ND< 9.58
1,1-Dichloroethene	ND< 9.58
Methylene chloride	ND< 23.9
trans-1,2-Dichloroethene	ND< 9.58
1,1-Dichloroethane	ND< 9.58
Chloroform	ND< 9.58
1,2-Dichloroethane	ND< 9.58
1,1,1-Trichloroethane	ND< 9.58
Carbon tetrachloride	ND< 9.58
Trichloroethene	ND< 9.58
1,2-Dichloropropane	ND< 9.58
Bromodichloromethane	ND< 9.58
2-Chloroethyl vinyl ether	ND< 9.58
cis-1,3-Dichloropropene	ND< 9.58
trans-1,3-Dichloropropene	ND< 9.58
1,1,2-Trichloroethane	ND< 9.58
Dibromochloromethane	ND< 9.58
Bromoform	ND< 9.58
Tetrachloroethene	ND< 9.58
1,1,2,2-Tetrachloroethane	ND< 9.58

EPA Analytical Method: 8010 ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Halocarbon Analysis Report For Solids/Sludge

Client:	Passero Associates	**Lab Project No.:**	99-2048
		Lab Sample No.:	7006
Client Job Site:	Speedy's 3130 Monroe Ave.	**Sample Type:**	Soil
Client Job No.:	99078.07	**Date Sampled:**	10/25/1999
		Date Received:	10/25/1999
Field Location:	Pit North 9'-13'	**Date Analyzed:**	10/25/1999
Field ID No.:	N/A		

VOLATILE HALOCARBONS	RESULTS (ug/kg)
Chloromethane	ND< 42.5
Vinyl Chloride	ND< 42.5
Chloroethane	ND< 42.5
Bromomethane	ND< 42.5
Trichlorofluoromethane	ND< 42.5
1,1-Dichloroethene	ND< 42.5
Methylene chloride	ND< 106
trans-1,2-Dichloroethene	ND< 42.5
1,1-Dichloroethane	ND< 42.5
Chloroform	ND< 42.5
1,2-Dichloroethane	ND< 42.5
1,1,1-Trichloroethane	ND< 42.5
Carbon tetrachloride	ND< 42.5
Trichloroethene	ND< 42.5
1,2-Dichloropropane	ND< 42.5
Bromodichloromethane	ND< 42.5
2-Chloroethyl vinyl ether	ND< 42.5
cis-1,3-Dichloropropene	ND< 42.5
trans-1,3-Dichloropropene	ND< 42.5
1,1,2-Trichloroethane	ND< 42.5
Dibromochloromethane	ND< 42.5
Bromoform	ND< 42.5
Tetrachloroethene	ND< 42.5
1,1,2,2-Tetrachloroethane	ND< 42.5

EPA Analytical Method: 8010 ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Halocarbon Analysis Report For Solids/Sludge

Client:	Passero Associates	**Lab Project No.:**	99-2048
		Lab Sample No.:	7007
Client Job Site:	Speedy's 3130 Monroe Ave.	**Sample Type:**	Soil
Client Job No.:	99078.07	**Date Sampled:**	10/25/1999
		Date Received:	10/25/1999
Field Location:	Pit Central Comp.	**Date Analyzed:**	10/25/1999
Field ID No.:	N/A		

VOLATILE HALOCARBONS	RESULTS (ug/kg)
Chloromethane	ND< 11.3
Vinyl Chloride	ND< 11.3
Chloroethane	ND< 11.3
Bromomethane	ND< 11.3
Trichlorofluoromethane	ND< 11.3
1,1-Dichloroethene	ND< 11.3
Methylene chloride	ND< 28.3
trans-1,2-Dichloroethene	ND< 11.3
1,1-Dichloroethane	ND< 11.3
Chloroform	ND< 11.3
1,2-Dichloroethane	ND< 11.3
1,1,1-Trichloroethane	ND< 11.3
Carbon tetrachloride	ND< 11.3
Trichloroethene	ND< 11.3
1,2-Dichloropropane	ND< 11.3
Bromodichloromethane	ND< 11.3
2-Chloroethyl vinyl ether	ND< 11.3
cis-1,3-Dichloropropene	ND< 11.3
trans-1,3-Dichloropropene	ND< 11.3
1,1,2-Trichloroethane	ND< 11.3
Dibromochloromethane	ND< 11.3
Bromoform	ND< 11.3
Tetrachloroethene	ND< 11.3
1,1,2,2-Tetrachloroethane	ND< 11.3

EPA Analytical Method: 8010 ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Halocarbon Analysis Report For Solids/Sludge

Client:	Passero Associates	**Lab Project No.:**	99-2048
		Lab Sample No.:	7008
Client Job Site:	Speedy's 3130 Monroe Ave.	**Sample Type:**	Soil
Client Job No.:	99078.07	**Date Sampled:**	10/25/1999
		Date Received:	10/25/1999
Field Location:	Pit South Comp.	**Date Analyzed:**	10/25/1999
Field ID No.:	N/A		

VOLATILE HALOCARBONS	RESULTS (ug/kg)
Chloromethane	ND< 220
Vinyl Chloride	ND< 220
Chloroethane	ND< 220
Bromomethane	ND< 220
Trichlorofluoromethane	ND< 220
1,1-Dichloroethene	ND< 220
Methylene chloride	ND< 550
trans-1,2-Dichloroethene	ND< 220
1,1-Dichloroethane	ND< 220
Chloroform	ND< 220
1,2-Dichloroethane	ND< 220
1,1,1-Trichloroethane	ND< 220
Carbon tetrachloride	ND< 220
Trichloroethene	ND< 220
1,2-Dichloropropane	ND< 220
Bromodichloromethane	ND< 220
2-Chloroethyl vinyl ether	ND< 220
cis-1,3-Dichloropropene	ND< 220
trans-1,3-Dichloropropene	ND< 220
1,1,2-Trichloroethane	ND< 220
Dibromochloromethane	ND< 220
Bromoform	ND< 220
Tetrachloroethene	ND< 220
1,1,2,2-Tetrachloroethane	ND< 220

EPA Analytical Method: 8010 ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By _____
Laboratory Director

992048V4.XLS

BASELINE STARS SAMPLES

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: Passero Associates

Client Job Site: Speedy's
3130 Monroe Ave.
Client Job No.: 99018.07

Field Location: Pit Bottom
Field ID No.: N/A

Lab Project No. 99-2071
Lab Sample No. 7098

Sample Type: Soil

Date Sampled: 10/27/99
Date Received: 10/27/99
Date Analyzed: 10/30/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	1,530
Acenaphthene	ND< 386
Fluorene	972
Fluoranthene	ND< 386
Anthracene	ND< 386
Phenanthrene	2,620
Benzo (a) anthracene	ND< 386
Chrysene	ND< 386
Pyrene	450
Benzo (b) fluoranthene	ND< 386
Benzo (k) fluoranthene	ND< 386
Benzo (g,h,i) perylene	ND< 386
Benzo (a) pyrene	ND< 386
Dibenz (a,h) anthracene	ND< 386
Indeno (1,2,3-cd) pyrene	ND< 386

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

992071S1.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:	Passero Associates	**Lab Project No.:**	99-2071
Client Job Site:	Speedy's 3130 Monroe Ave.	**Lab Sample No.:**	7098
Client Job No.:	99018.07	**Sample Type:**	Soil
Field Location:	Pit Bottom	**Date Sampled:**	10/27/99
Field ID No.:	N/A	**Date Received:**	10/27/99
		Date Analyzed:	11/02/99

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-butyl Ether	ND< 20.3
Benzene	ND< 20.3
Toluene	ND< 20.3
Ethylbenzene	232
m,p-Xylene	379
o-Xylene	63.0
Isopropylbenzene	163
n-Propylbenzene	266
1,3,5-Trimethylbenzene	496
tert-Butylbenzene	ND< 20.3
1,2,4-Trimethylbenzene	2,470
sec-Butylbenzene	382
p-Isopropyltoluene	140
n-Butylbenzene	ND< 20.3
Naphthalene	1,140

Analytical Method: EPA 8021 NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client: Passero Associates

Client Job Site: Speedy's
3130 Monroe Ave.

Client Job No.: 99018.07

Field Location: Pit North

Field ID No.: N/A

Lab Project No.: 99-2071

Lab Sample No.: 7099

Sample Type: Soil

Date Sampled: 10/27/99

Date Received: 10/27/99

Date Analyzed: 11/02/99

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 17.0
Benzene	ND< 17.0
Toluene	ND< 17.0
Ethylbenzene	ND< 17.0
m,p-Xylene	ND< 17.0
o-Xylene	ND< 17.0
Isopropylbenzene	72.5
n-Propylbenzene	137
1,3,5-Trimethylbenzene	196
tert-Butylbenzene	126
1,2,4-Trimethylbenzene	1,180
sec-Butylbenzene	203
p-Isopropyltoluene	193
n-Butylbenzene	ND< 17.0
Naphthalene	715

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: Passero Associates

Client Job Site: Speedy's
3130 Monroe Ave.
Client Job No.: 99018.07

Field Location: Pit North
Field ID No.: N/A

Lab Project No. 99-2071
Lab Sample No. 7099

Sample Type: Soil

Date Sampled: 10/27/99
Date Received: 10/27/99
Date Analyzed: 10/30/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	1,060
Acenaphthene	ND< 348
Fluorene	528
Fluoranthene	ND< 348
Anthracene	ND< 348
Phenanthrene	1,090
Benzo (a) anthracene	ND< 348
Chrysene	ND< 348
Pyrene	ND< 348
Benzo (b) fluoranthene	ND< 348
Benzo (k) fluoranthene	ND< 348
Benzo (g,h,i) perylene	ND< 348
Benzo (a) pyrene	ND< 348
Dibenz (a,h) anthracene	ND< 348
Indeno (1,2,3-cd) pyrene	ND< 348

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

992071S2.XLS

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:	Passero Associates	**Lab Project No.:**	99-2071
		Lab Sample No.:	7100
Client Job Site:	Speedy's 3130 Monroe Ave.	**Sample Type:**	Soil
Client Job No.:	99018.07	**Date Sampled:**	10/27/99
Field Location:	Pit South	**Date Received:**	10/27/99
Field ID No.:	N/A	**Date Analyzed:**	11/02/99

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 12.3
Benzene	ND< 12.3
Toluene	ND< 12.3
Ethylbenzene	ND< 12.3
m,p-Xylene	ND< 12.3
o-Xylene	ND< 12.3
Isopropylbenzene	26.3
n-Propylbenzene	57.7
1,3,5-Trimethylbenzene	159
tert-Butylbenzene	26.7
1,2,4-Trimethylbenzene	158
sec-Butylbenzene	143
p-Isopropyltoluene	275
n-Butylbenzene	ND< 12.3
Naphthalene	ND< 61.7

Analytical Method: EPA 8021 NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: Passero Associates

Client Job Site: Speedy's
3130 Monroe Ave.

Client Job No.: 99018.07

Field Location: Pit South
Field ID No.: N/A

Lab Project No. 99-2071
Lab Sample No. 7100

Sample Type: Soil

Date Sampled: 10/27/99
Date Received: 10/27/99
Date Analyzed: 10/30/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	1,950
Acenaphthene	638
Fluorene	1,130
Fluoranthene	1,950
Anthracene	502
Phenanthrene	4,050
Benzo (a) anthracene	720
Chrysene	799
Pyrene	2,150
Benzo (b) fluoranthene	672
Benzo (k) fluoranthene	541
Benzo (g,h,i) perylene	451
Benzo (a) pyrene	710
Dibenz (a,h) anthracene	ND< 375
Indeno (1,2,3-cd) pyrene	537

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

992071S3.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:	Passero Associates	**Lab Project No.:**	99-2071
		Lab Sample No.:	7101
Client Job Site:	Speedy's 3130 Monroe Ave.	**Sample Type:**	Soil
Client Job No.:	99018.07	**Date Sampled:**	10/27/99
		Date Received:	10/27/99
Field Location:	Pit East	**Date Analyzed:**	11/02/99
Field ID No.:	N/A		

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 14.1
Benzene	ND< 14.1
Toluene	ND< 14.1
Ethylbenzene	37.8
m,p-Xylene	104
o-Xylene	ND< 14.1
Isopropylbenzene	361
n-Propylbenzene	696
1,3,5-Trimethylbenzene	859
tert-Butylbenzene	339
1,2,4-Trimethylbenzene	3,160
sec-Butylbenzene	578
p-Isopropyltoluene	630
n-Butylbenzene	ND< 14.1
Naphthalene	1,290

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: Passero Associates

Client Job Site: Speedy's
3130 Monroe Ave.

Client Job No.: 99018.07

Field Location: Pit East
Field ID No.: N/A

Lab Project No. 99-2071
Lab Sample No. 7101

Sample Type: Soil

Date Sampled: 10/27/99
Date Received: 10/27/99
Date Analyzed: 10/30/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	4,390
Acenaphthene	ND< 387
Fluorene	1,590
Fluoranthene	ND< 387
Anthracene	ND< 387
Phenanthrene	3,470
Benzo (a) anthracene	ND< 387
Chrysene	ND< 387
Pyrene	463
Benzo (b) fluoranthene	ND< 387
Benzo (k) fluoranthene	ND< 387
Benzo (g,h,i) perylene	ND< 387
Benzo (a) pyrene	ND< 387
Dibenz (a,h) anthracene	ND< 387
Indeno (1,2,3-cd) pyrene	ND< 387

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

992071S4.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:	Passero Associates	**Lab Project No.:**	99-2071
		Lab Sample No.:	7102
Client Job Site:	Speedy's 3130 Monroe Ave.	**Sample Type:**	Soil
Client Job No.:	99018.07	**Date Sampled:**	10/27/99
		Date Received:	10/27/99
Field Location:	Pit West	**Date Analyzed:**	11/02/99
Field ID No.:	N/A		

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-Butyl Ether	ND< 8.62
Benzene	ND< 8.62
Toluene	ND< 8.62
Ethylbenzene	ND< 8.62
m,p-Xylene	ND< 8.62
o-Xylene	ND< 8.62
Isopropylbenzene	ND< 8.62
n-Propylbenzene	ND< 8.62
1,3,5-Trimethylbenzene	ND< 8.62
tert-Butylbenzene	ND< 8.62
1,2,4-Trimethylbenzene	43.4
sec-Butylbenzene	ND< 8.62
p-Isopropyltoluene	ND< 8.62
n-Butylbenzene	ND< 8.62
Naphthalene	209

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: Passero Associates

Client Job Site: Speedy's
3130 Monroe Ave.

Client Job No.: 99018.07

Field Location: Pit West
Field ID No.: N/A

Lab Project No. 99-2071
Lab Sample No. 7102

Sample Type: Soil

Date Sampled: 10/27/99
Date Received: 10/27/99
Date Analyzed: 10/30/99

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 367
Acenaphthene	ND< 367
Fluorene	ND< 367
Fluoranthene	ND< 367
Anthracene	ND< 367
Phenanthrene	ND< 367
Benzo (a) anthracene	ND< 367
Chrysene	ND< 367
Pyrene	ND< 367
Benzo (b) fluoranthene	ND< 367
Benzo (k) fluoranthene	ND< 367
Benzo (g,h,i) perylene	ND< 367
Benzo (a) pyrene	ND< 367
Dibenz (a,h) anthracene	ND< 367
Indeno (1,2,3-cd) pyrene	ND< 367

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____
Laboratory Director

992071S5.XLS

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Non-Potable Water (STARS List)

Client:	Passero Associates	**Lab Project No.:**	99-1293
		Lab Sample No.:	4826
Client Job Site:	Speedy's 3130 Monroe Ave.	**Sample Type:**	Water
Client Job No.:	99018.06	**Date Sampled:**	07/08/99
		Date Received:	07/09/99
Field Location:	D2W	**Date Analyzed:**	07/19/99
Field ID No.:	N/A		

VOLATILE AROMATICS	RESULTS (ug/L)
Methyl tert-Butyl Ether	ND< 20.0
Benzene	7.5
Toluene	ND< 20.0
Ethylbenzene	ND< 20.0
m,p-Xylene	31.3
o-Xylene	ND< 20.0
Isopropylbenzene	150.7
n-Propylbenzene	255.6
1,3,5-Trimethylbenzene	307.9
tert-Butylbenzene	222.0
1,2,4-Trimethylbenzene	2028.7
sec-Butylbenzene	298.3
p-Isopropyltoluene	221.0
n-Butylbenzene	433.4
Naphthalene	1250.7

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Water (STARS List)

Client: Passero Associates

Client Job Site: Speedy's
3130 Monroe Ave.

Client Job No.: 99018.06

Field Location: D2W
Field ID No.: N/A

Lab Project No.: 99-1293
Lab Sample No.: 4826

Sample Type: Water

Date Sampled: 07/08/99
Date Received: 07/09/99
Date Analyzed: 07/19/99

COMPOUND	RESULT (ug/L)
Naphthalene	ND< 500
Acenaphthene	ND< 500
Fluorene	ND< 500
Fluoranthene	ND< 500
Anthracene	ND< 500
Phenanthrene	ND< 500
Benzo (a) anthracene	ND< 500
Chrysene	ND< 500
Pyrene	ND< 500
Benzo (b) fluoranthene	ND< 500
Benzo (k) fluoranthene	ND< 500
Benzo (g,h,i) perylene	ND< 500
Benzo (a) pyrene	ND< 500
Dibenz (a,h) anthracene	ND< 500
Indeno (1,2,3-cd) pyrene	ND< 500

EPA Analytical Method: 8270 NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected
Detection Limits elevated due to non-target hydrocarbons

Approved By: _____
Laboratory Director

LAMBDA BIOREMEDIATION SYSTEMS

ENVIRONMENTAL MICROBIOLOGY
CONSULTING

lambda
BIOREMEDIATION
systems, inc.

WETLANDS TECHNOLOGY
PROBLEM SOLVING

ROCHESTER, NY CORRECTIVE ACTION PLAN

Based on the nature of the hydrocarbon constituents in the subsurface soil and ground water, and the horizontal and vertical extent of the product, insitu bioremediation, using indigenous microorganisms is a feasible form of remediation. This is based on performance, ease of implementation and long term cost effectiveness.

The Lambda Bioremediation technology uses indigenous algae, protozoa, fungus and bacteria in an innovative approach to reduce hydrocarbon products. This technology requires no soil removal and only minor soil manipulation. A balanced, concentrated inoculum is produced from native microorganisms and normally does not require supplemental oxygen or nutrient sources. Application of the microorganisms normally takes one working day. No further field work should be required at the site other than monitoring of the product reduction. Reduction of the product to below regulatory levels, or at a level where natural attenuation validates closure and/or no further action in 12 to 24 months. Corrective actions will take place in five stages: 1. Site assessment, and profiling of site microbes ,nutrients, pH, redox, DO, CH4 and temperature. 2. Acclimation, 3. Scale-up of individual microbial groups, 4. Application of inoculum to the site and 5. Monitoring.

1-A. The SITE ASSESSMENT consists of two distinct phases:

a.) An accurate analysis of subsurface conditions, including subsurface geology, depth to ground water, horizontal and vertical extent of the product, and chemical analyses of soil and ground water at various locations in the site. This data is gathered by the consulting firm for the project, in this case by Passero Assoc. Based on the geological and chemical data contained in this report, desirable locations for site inoculation, including areas for trenches and/or injection points, are selected. This step has already been completed by Passero Assoc. personnel.
b.) Passero Assoc.personnel . It is suggested that ground water samples from all of the monitoring wells for should by tested for DO, temperature, redox , pH, CH4, So4 NO3and Cl, as these are all helpful in assessing the progression of the site bioremediation;
1-B. NATURAL ATTENUATION CHEMISTRIES will not be taken based on the client's request.

1-C MICROECLOGICAL PROFILE is not necessary for this site, as a generic mix will be used. The site data such as chemical parameters and geology are processed by a database system. This database has a library that contains over thirteen thousand species of microorganisms. A list of the identified microorganisms, their specific nutrient requirements and relevant data necessary for their natural selection and bioacclimation is generated from the program. Lambda has done numerous microecological profiles on sites in the great lakes region and has already developed a profile of the indigenous flora that is highly effective degrading not only TPH/BTEX, but also greases, oils, MTBE, antifreeze, semi-volitile compounds and chlorinated compounds commonly associated with service stations and other industries . They also chelate heavy metals to non-water soluble forms, and degrade the paraffinic, weathered product in the smear zone and ground water. Our research from December, 1997 through January, 1999 also produced 15 new microbes that we have incorporated into our process. They are indigenous to eastern and midwestern sites and have decreased the time necessary to wash the smear zone in sites where they have been included in our inoculum.

2. ACCLIMATION

The 335 microbes we use on mixed waste sites are acclimated in gallon jugs with specie-specific nutrients and high-impact soil and ground water (approximately one quart of impacted soil/ground water mix is needed) from the site. Each jug is microscopically analyzed to see that acclimation has taken place (7-10 days). The jugs are closely monitored to make certain that the target density and viability of each microbe has been achieved. The naturally occurring strains will evolve through natural selection pressure and the resultant strain of each microbe will be the hybrid of the strain with the highest degree of degradation capability.

Lambda develops site-specific organisms through our proprietary process to bring each organism to its maximum potential for successful site bioremediation. This procedure is proprietary to Lambda. *Note that no genetic engineering is involved in this process.* This step is to be by-passed, since the client has ordered the Generic consortium. The microbes will acclimate to the Rochester site in a short period of time, which will delay clean-up by only a month or so.

3. SCALE UP OF INDIVIDUAL MICROBIAL GROUPS

Each of the microbial groups are individually cultured and scaled-up in the laboratory to appropriate ratios in nutrient broth. The naturally occurring strains will evolve the required traits under natural selective pressure introduced by our nutrient broth. Again, the ingredients in the nutrient broth is proprietary information of Lambda Bioremediation Systems, Inc. The nutrient broth consists of sugars, yeasts and nutrients commonly found in the environment. The broth will have no adverse effect on the environment. In fact, the materials in the broth are highly beneficial to the environment. We are essentially returning nutrients to the environment that were lost due to the introduction of the target products, building debris, overlain pavement and other sources of chemical products entering the soil and ground water. The goal of the inoculation is to ensure a higher carrying capacity on the site for faster and more efficient microbial degradation of the target products.

We are essentially increasing the carrying capacity of the tank gradually , just as the microbes will double every 24-36 hours and will have the food supply to raise the carrying capacity of the impacted soil and ground water for more rapid smear zone "washing" and product degradation in the smear zone and the ground water, as well as any impacted sand layers under the ground water. We use a concentrate to insure the proper microbial density and viability without the danger of "mounding". The client has requested (4) 55 gallon drum of the 335 microbes and a high energy feed source to produce assure this concentration when it arrives on site

4. INJECTION OF INOCULUM INTO THE SITE

The chemical and geological parameters are studied to determine the best method for inoculation and gallons to be downloaded at each injection point. When the inoculum is introduced to the site the microorganisms must be in direct contact with the product. The inoculum will disperse itself through the impacted zones following the degradative pathways created by hydrocarbon products. Microorganisms, which have been identified in worms to aid in the digestion of clays, are present in the inoculum to assist in its dispersion. The microbial population follow the contaminant pathway as a food source. The Bio-surfactants and paraffin degraders will loosen and "wash" the weathered product in the smear zone. The micro-organisms will become attached to the soil matrix to degrade products they contact. A suitable and final injection plan has been developed by Passero Assoc. There are a number of injection plans that can be used, but the microbes must be in contact with the contaminated soil and ground water for successful bioremediation to occur. All injection wells should be 4" perforated PVC pipes in a pea -gravel pack . Silica sand pack will impede the movement of microbes from the pipes into the smear zone and will slow down the rate of smear zone product degradation. Infiltration galleries should be dug to the top of the visible smear zone, So that it can be sprayed directly on the impacted zone. A gravel layer added to the bottom of the trenches (before or after inoculation) will provide a zone of aeration that will speed the degradation process. The trench can be closed as soon as we complete the inoculation. We have also

found the installing 4" perforated PVC piping on top of the gravel layer, with risers to the top of the trenches on each end, will simplify any additional injections of nutrient and/or microbes that may be required within the normal 1 to 2 year clean-up. The use of piping and risers in the trenches would also allow for the trench to be closed as soon as the piping is laid. This is usually preferred by the active site owner to create a minimum of disruption to his business. The client, in this case, had opted to use injection wells , since the product is localized in one area, but needs to mirgrate clean PCE in an unaccessable down gradient area.

Reductive dechlorination will break off and chelate the chlorine and the heavy metals which can interfer with the organic compponds, using facultative anaerobes. Organic compounds in the soil will be effectively degraded to methane (CH_4) then to carbon dioxide water and various nutrients. Intermediate degradation products are short lived and are assimilated by microbes. The microbes have the ability to use the hydrocarbons as a food source and the product is depleted. At that point, the product is expected to be within back ground levels. The concentration and volume of microorganisms introduced is in direct proportion to concentration and volume of the product (quantity of food source). The initial inoculum exceeds the carrying capacity of the site for approximately 30 to 60 days, then reverts back to normal carrying capacity.

The inoculum is pumped from the 5,000 gallon tank in our Columbus facility into a 55 gallon drums for transfer to the site. Passeo Assoc. will do the installation and the injection of the product into the injection well. Typically this is the end of Lambda's involvement in the remediation process. The feed stock is determined by the nutritional needs of site microbes and to achieve and maintain a ratio of organic carbon to nitrogen to phosphates of 100:10:1.

The rational is to surround and flood the high impact soil and ground water necessary using the 12" perforated PVC injection wells . Assuming that there is high soil porosity and permeability, the microbes should not be impeded in moving through the site or off site to follow the plume and degrade the products.

5. MONITORING

Lambda's bioremediation technique normally does not require any maintenance activities other than sampling to monitor the progress of the bioremediation. Soil and ground water samples should be collected and analyzed for target products. Monitoring should be conducted: quarterly. 12 to 24 months is the typical range for bioremediation of hydrocarbon product sites using the Lambda process. Other factors such as extremely cold weather and ground water level fluctuations may affect the length of time of remediation. Cold ground water recharge in late fall, winter and early spring has a higher dissolved oxygen concentration than warmer spring, summer and early fall ground water recharge. The rate of degradation is normally greater during these colder ground water recharge periods. Samples for monitoring are collected from areas as close as possible to the samples taken for analysis in the original site investigation. these initial VOC, chlorinated compounds, PAH and other products of concern values are used as a reference for the amount of remediation which has occurred. We also suggest that all monitoring wells be checked for DO, temperature, methane and pH during the quarterly monitoring events. The other baseline chemistries can also be repeated if necessary, but we suggest also monitoring CH_4 and Cl. in the up-gradient, tank pit and down-gradient wells, as these are indicators that degradation is in its final stages. It is normal to see low DO and higher temperatures and CH_4 in ground water that is actively degrading the target products. The alternative electron receptors (NO_3, SO_4, Fe^{+2}, Fe^{+3}, Mn^{+2} , etc.) will continue the degradation of the products when DO is below .2 ppm (microaerophilic).

Lambda assures the reliability of the process for this site based on our experience at similar sites and Passeo Assoc. site assessment. Lambda's assurance is reliant upon accurate chemical and geologic data provided by the consultant; that there is no further contamination occurring on the site, and that no contamination is migrating onto the site from outside sources. The microbes cannot degrade product if

the areas containing the product are inaccessible for inoculation. When the lack of accessibility cannot be altered, then the time necessary for microbial migration to the contaminated area (and degradation of the target products) could take as long as five years, instead of two years.

Should modifications, such as additional injections of nutrients and/or microbes be required, they will be done at cost of materials, labor and transportation.

No other guarantees are stated or implied by Lambda as a subcontractor.

MILL SEAT LANDFILL

BILLS OF LADING

NOV 02 '99 09:46AM

Dept of Environmental Services
50 West Main Street
Rochester, NY 14614

MONROE COUNTY

Ticket No : 1100
Date : 10/27
(0)-0

Order No :10209901
CONTAMINATED SOIL
Loads : 3
Miles : 0
Tons : 0.00

Customer: P0156
Piedmont Equipment

695 Atlantic Avenue
Rochester, NY 14609

PE17
132 ADC-PETROL CONT SOIL
Q1548 A/B 24/25 690-700 STG II 10
Price/tn $ 22.0000

Gross : 65280 MAN WT In 10:16:03AM
Tare : 28860 MAN WT In 10:28:43AM

Net : 36420 lb
18.210 tn

Material $ 400
Delvry $ 0
Misc $ 0
Tax $ 0
Total $ 400

Weigh Master: HLB

Driver:

Remarks:

10209901

Per
(the signature here acknowledges the amount Prepaid.)

Charges Advanced:

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

Dept of Environmental Services
50 West Main Street
Rochester, NY 14614

MONROE COUNTY

Ticket No : 1
Date : 10/
(0)-0

Order No :10209901
CONTAMINATED SOIL
Loads : 5
Miles : 0
Tons : 0.00

Customer: P0156
Piedmont Equipment

695 Atlantic Avenue
Rochester, NY 14609

PE17
132 ADC-PETROL CONT SOIL
Q1550 B/25 690/700 STGII 10/29/99
Price/tn $ 22.0000

Gross : 36720 MAN WT In 10:45:4
Tare : 27280 MAN WT In 11:04:2

Net : 9440 lb
4.720 tn

Material $ 1
Delvry $
Misc $
Tax $
Total $ 1

Weigh Master: CEI

Driver:

Remarks: BOL

NOV 02 '99 09:46AM P.4

County of Monroe
Dept. of Environmental Services
50 West Main Street
Rochester, NY 14614

MONROE COUNTY

Ticket No 10885
Date : 10/26/
(0)-0

Customer: P0156
Piedmont Equipment

695 Atlantic Avenue
Rochester, NY 14609

Order No :10209901
CONTAMINATED SOIL
Loads : 2
Miles : 0
Tons : 0.00

PE17
132 ADC-PETROL CONT SOIL
Q1469 PC SOIL STG II STOCK PILED
Price/tn $ 22.0000

Gross : 67640 MAN WT In 2:58:11PM
Tare : 28060 MAN WT In 3:15:07PM
Net : 39580 lb
19.790 tn

Weigh Master: HLB

Driver: Clifton Crafts

Remarks:

Material $	435.
Delvry $	0.
Misc $	0.
Tax $	0.
Total $	435.

County of Monroe
Dept. of Environmental Services
50 West Main Street
Rochester, NY 14614

MONROE COUNTY

Ticket No : 110
Date : 10/27
(0)-0

Customer: P0156
Piedmont Equipment

695 Atlantic Avenue
Rochester, NY 14609

Order No :10209901
CONTAMINATED SOIL
Loads : 4
Miles : 0
Tons : 0.00

PE17
132 ADC-PETROL CONT SOIL
Q1548 A/B 24/25 690-700 STG II 10
Price/tn $ 22.0000

Gross : 69460 MAN WT In 11:53:33A
Tare : 30500 MAN WT In 12:06:33P
Net : 38960 lb
19.480 tn

Weigh Master: CEI

Driver: Clifton Crafts

Remarks:

Material $	428
Delvry $	0
Misc $	0
Tax $	0
Total $	428

NOV 02 '99 09:45AM

Dept of Environmental Services
50 West Main Street
Rochester, NY 14614

MONROE -0
COUNTY

Ticket No : 148330
Date : 10/28/99

Customer: P0156
Piedmont Equipment

695 Atlantic Avenue
Rochester, NY 14609

Order No :10209901
CONTAMINATED SOIL
Loads : 1
Miles : 0
Tons : 0.00

PE17
132 ADC-PETROL CONT SOIL
01547 B-25 690-700 STG II 10/26
Price/tn $ 22.0000

Gross : 64040 MAN WT In 12:50:18PM
Tare : 28040 MAN WT In 1:21:45PM
Net : 36000 lb
18.000 tn

Weigh Master: HLB

Driver:

Remarks:

Material $	396.00
	0.00
Delvry $	
Misc $	0.00
Tax $	0.00
Total $	396.00

Per _____
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:
$ _____

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

_____ Shipper, Per _____ Agent, Per _____

Permanent post-office address of shipper. _____

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

APPENDIX 3

NYSDOH Indoor Air Quality Questionnaire &
Building Inventory

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Peter Morton, CPG Date/Time Prepared 9/16/05

Preparer's Affiliation Passero Associates Phone No. 585-325-1000

Purpose of Investigation Vapor intrusion investigation for Speedy's cleaners BCP investigation

1. OCCUPANT:

Interviewed: Y / N

Last Name: Letourneau First Name: Ashley

Address: _____

County: _____

Home Phone: _____ Office Phone: 586-0870

Number of Occupants/persons at this location 2 workers Age of Occupants in their 20s

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N

Last Name: Williams First Name: Christopher

Address: 3130 Monroe Ave Associates, LLC, PO Box 499, Pittsford, NY 14534

County: Monroe

Home Phone: 703-3458 Office Phone: 586-3060

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Dry cleaner drop off/pickup, vacant commercial

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age +/- 50 years

Is the building insulated? Y / (N) How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	(slab)	other _____
c. Basement floor:	concrete	dirt	stone	other N/A
d. Basement floor:	uncovered	covered	covered with N/A	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	(poured)	block	stone	other _____
g. Foundation walls:	(unsealed)	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	N/A
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks and/or seams in slab

* Note: when Speedy's clothes racks were removed in late December '05, an approximately ½" diameter hole through the slab was revealed, providing obvious entry point for sub slab vapors

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: electric

Boiler/furnace located in: Basement Outdoors (Main Floor) Other_____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

_____

_____

_____

_____

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	_____
1st Floor	2 workers present M-F 6:30 A.M. - 6.00 P.M. Sat 9-3
2nd Floor	_____
3rd Floor	_____
4th Floor	_____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?_____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? Y / N When & Type? _____

i. Have cosmetic products been used recently? Y / N When & Type? _____

Dry cleaning returned from downtown Scio St location 3x per day

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) N
If yes, please describe: cleaned clothes

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? Historic perchloroethylene used for dry cleaning

If yes, are their clothes washed at work? Historic Y / N

* **Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate response) Subject building was historic dry cleaner, now used for drop off/pickup only.

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Stoddard Solvents are now used as the cleaning solvent

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation: _____
Is the system active or passive? Active/Passive
N/A

9. WATER AND SEWAGE

Water Supply:	(Public Water)	Drilled Well	Driven Well	Dug Well	Other: _____
Sewage Disposal:	(Public Sewer)	Septic Tank	Leach Field	Dry Well	Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

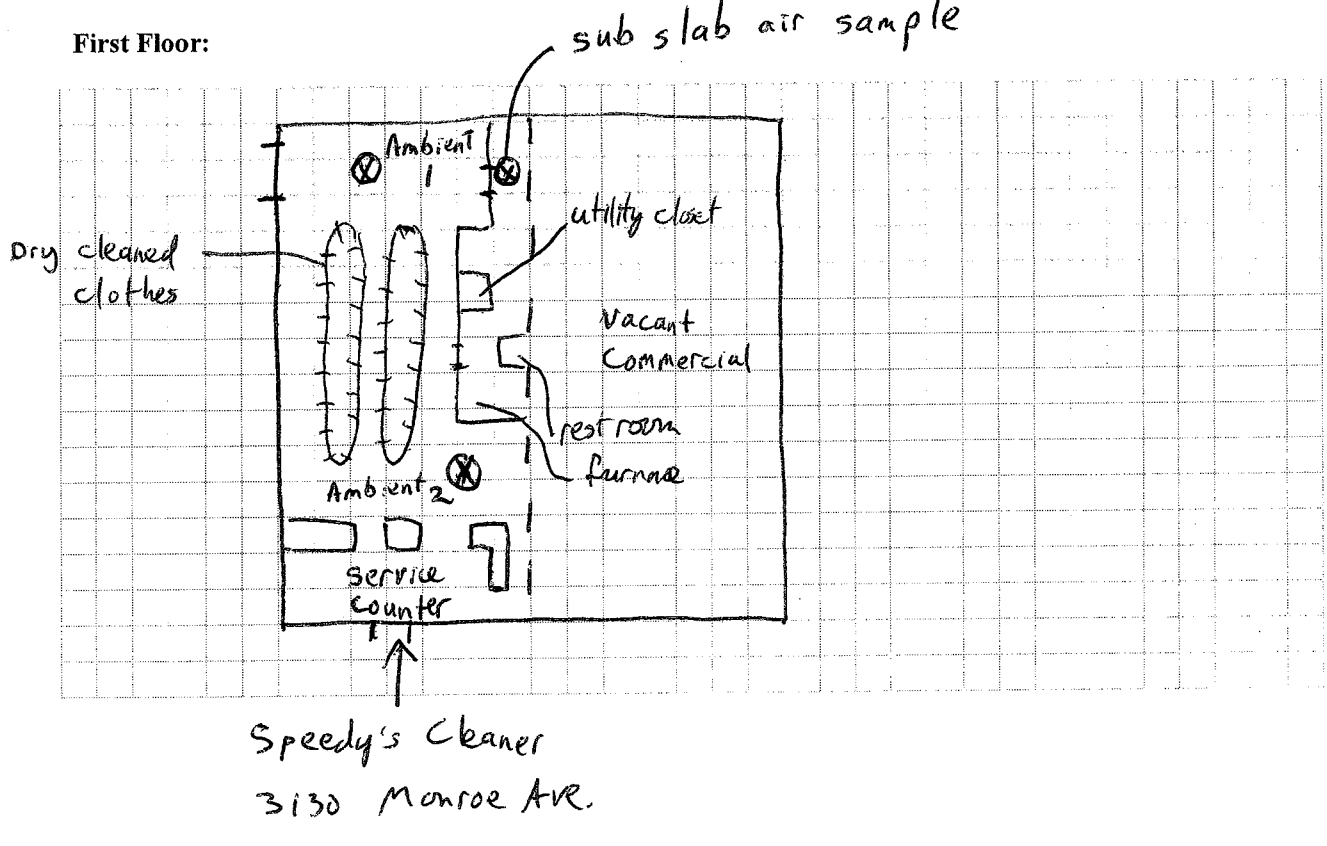
* MiniRae 2000 PID was used to screen organic vapors. All background levels inside Speedy's < 1.0 ppm. A fresh load of dry cleaned clothes did not register organic vapors above background levels.

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

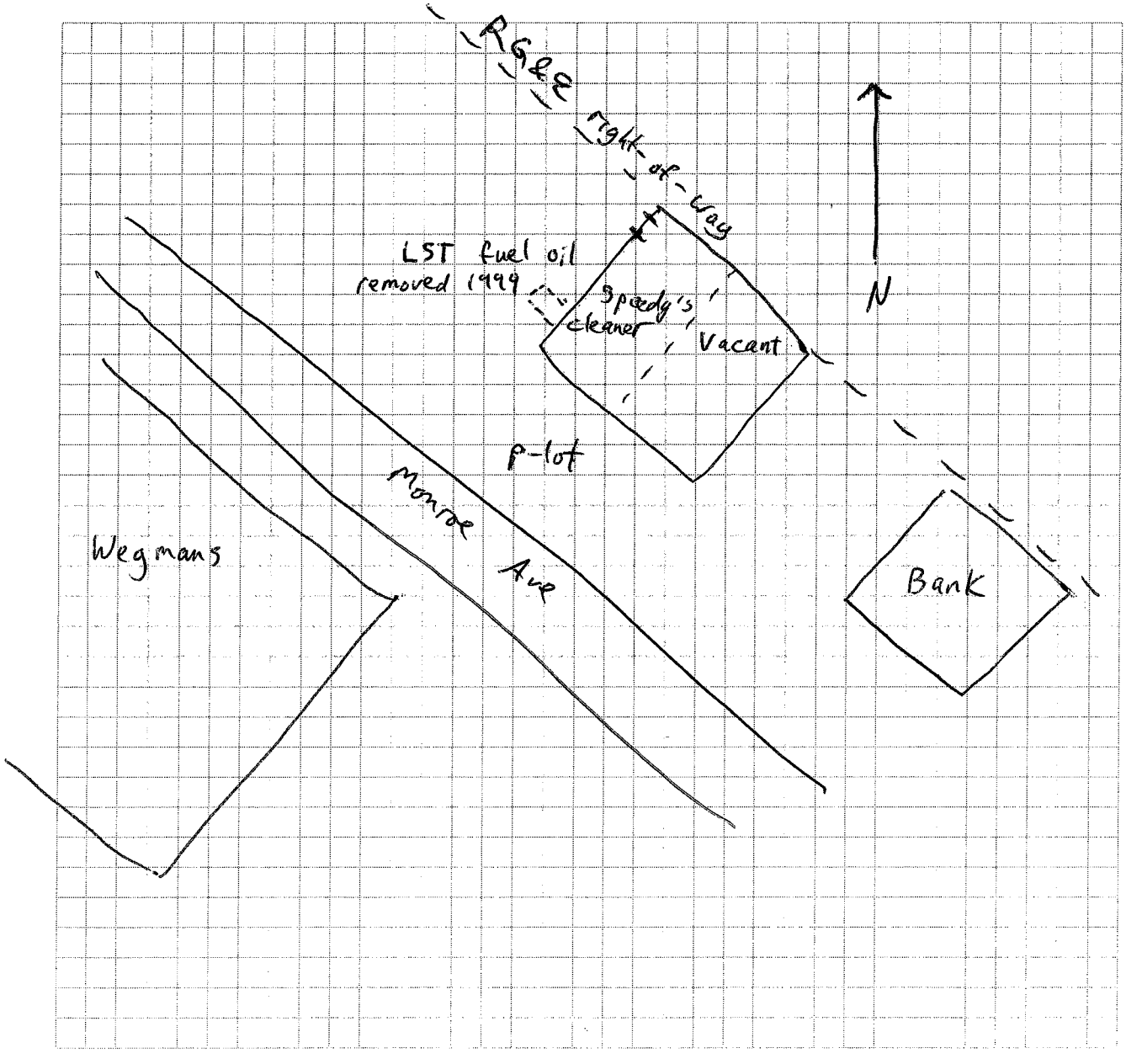
First Floor:



12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rae 2000

List specific products found in the residence that have the potential to affect indoor air quality.

PID Background: 0.1

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Utility	Cork Adhesive	1 Qt	Good(U)	"Petroleum distillates"	0.3	Y
	3-in-One	8 oz.	" U	"	0.1	Y
	Painter's Touch (Rustoleum)	12 oz.	" U	Acetone & Xylene	2.6	Y
	Comet bleach	17 oz.	" U	Sodium dichloro-s-triazinetrione dihydrate	0	Y
					0	Y
	Ortho Ant killer spray	16 oz	" U	Tetramethrin[CI-Cyclohexane-1,2-dicarboximidomethyl 2,2-dimethyl-3-(2-methylpropenyl) cyclopropanecarboxylate		
				Sumethrin 3-Phenoxybenzyl d-cis and trans 2,2 dimethyl-3-(2-methylpropenyl) cyclopropanecarboxylate		

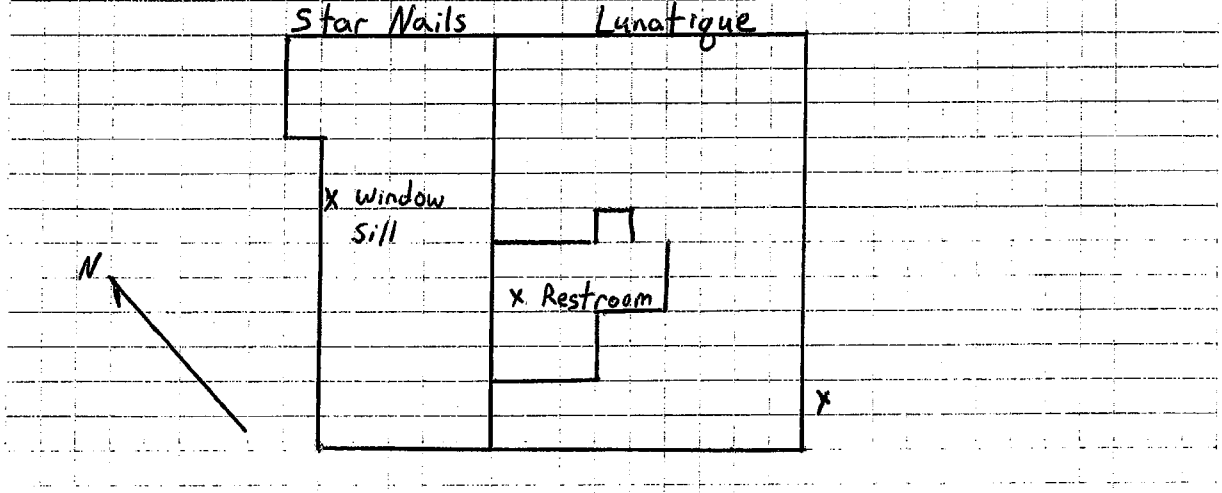
* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor: Sample Locations



OSR – 3

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Peter Morton Date/Time Prepared 11/20/07 900-1100 A.M.

Preparer's Affiliation Passero Assoc. Phone No. 585-325-1000

Purpose of Investigation Speedy's Cleaners BCP, confirmatory air samples

1. OCCUPANT:

Interviewed: Y (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: historic location of Speedy's Dry Cleaner

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age 50+ years

Is the building insulated? Y / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	poured	(block)	stone	other _____
g. Foundation walls:	(unsealed)	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: N/A (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

_____

_____

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
Air conditioning:	Central Air	Window units	Open Windows	None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

_____

_____

_____

_____

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	_____
1st Floor	_____
2nd Floor	_____
3rd Floor	_____
4th Floor	_____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y /(N)

b. Does the garage have a separate heating unit? Y /(N)/ (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y /(N) Where?_____

f. Is there a workshop or hobby/craft area? Y /(N) Where & Type?_____

g. Is there smoking in the building? Y / (N) How frequently?_____

h. Have cleaning products been used recently? Y /(N) When & Type? _____

i. Have cosmetic products been used recently? (Y) / N When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____

l. Have air fresheners been used recently? Y / N When & Type? _____

m. Is there a kitchen exhaust fan? Y / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / N If yes, where vented? _____

o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:	Public Water	Drilled Well	Driven Well	Dug Well	Other: _____
Sewage Disposal:	Public Sewer	Septic Tank	Leach Field	Dry Well	Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rae PID

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Bathroom Lunatique	Ammonia	½ full 64oz	sealed	ammonia	0.0	
"	Windex	1gal	sealed	ammonia-D		
"	Clorox wipes	75 wipes	closed	ammonium Chloride		
"	windex spray	1/8 full 26oz	sealed	ammonia-D		
"	Air freashener spray		sealed			
"	glass multisurface	¼ full		Glycol Ether, Ammonia		
	cleaner	20oz	sealed	Surfactants		
"	polish remover	6oz	sealed	acetone, water		
				propylene carbonate		
				dimethyl glutarate,		
				dimethyl succinate,		
				dimethyl adipate		
"	orange glo ~~wood~~	½ full	sealed	orange oil		
	wood cleaner	32oz	spray bottle			
	scrub free		Sealed			
	bathroom cleaner	32oz	Sealed			
Closet	Latex paint + primer		Sealed		0.0	
	Stain		Sealed			
	wall adhesive polyurethane		Sealed			

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rae PID

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
~~Bathroom~~ Laundry room	Ammonia	½ full 64oz	Sealed	ammonia	0.0	
"	Windex	1gal	sealed	ammonia-D		
"	Clorox wipes	75 wipes	closed	ammonium Chloride		
"	windex spray	1/8 full 26oz	Sealed	ammonia-D		
"	Air freasheners spray		Sealed			
"	glass multisurface cleaner	¼ full 20oz	Sealed	Glycol Ether, Ammonia Surfactants		
"	polish remover	6oz	Sealed	acetone, water propylene carbonate dimethyl glutarate, dimethyl succinate, dimethyl adipate		
"	orange glo ~~wood~~ wood cleaner	½ full 32oz	Sealed spray bottle	orange oil		
	Scrub free bathroom cleaner	32oz	Sealed			
Closet	Latex paint + primer		Sealed		0.0	
	Stain		Sealed			
	wall adhesive polyurethane		Sealed			

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

OSR – 3

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Peter Morton, C.P.G. Date/Time Prepared 4/4/07

Preparer's Affiliation Passero Associates Phone No. 325-1000 x 322

Purpose of Investigation confirmatory air samples

1. OCCUPANT:

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) nail salon

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age 50 + years

Is the building insulated? Y / N How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. **BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: N/A (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

_____

_____

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
Air conditioning:	Central Air	Window units	Open Windows	None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

_____

_____

_____

_____

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	
1st Floor	nail salon / vacant retail
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?_____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? Y / N When & Type? _____

i. Have cosmetic products been used recently? (Y) N When & Type? nail salon on-going

j. Has painting/staining been done in the last 6 months? Y /(N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y /(N) Where & When? _____

l. Have air fresheners been used recently? Y /(N) When & Type? _____

m. Is there a kitchen exhaust fan? Y /(N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y /(N) If yes, where vented? _____

o. Is there a clothes dryer? Y /(N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y /(N) When & Type? _____

Are there odors in the building? (Y)/ N
If yes, please describe: Salon products (acetone)

Do any of the building occupants use solvents at work? (Y) N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y /(N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)
Building was historically used as Speedy's Cleaners

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? (Y) N Date of Installation: Mitigation Tech ASD installed 2006
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:	(Public Water)	Drilled Well	Driven Well	Dug Well	Other: _____
Sewage Disposal:	(Public Sewer)	Septic Tank	Leach Field	Dry Well	Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

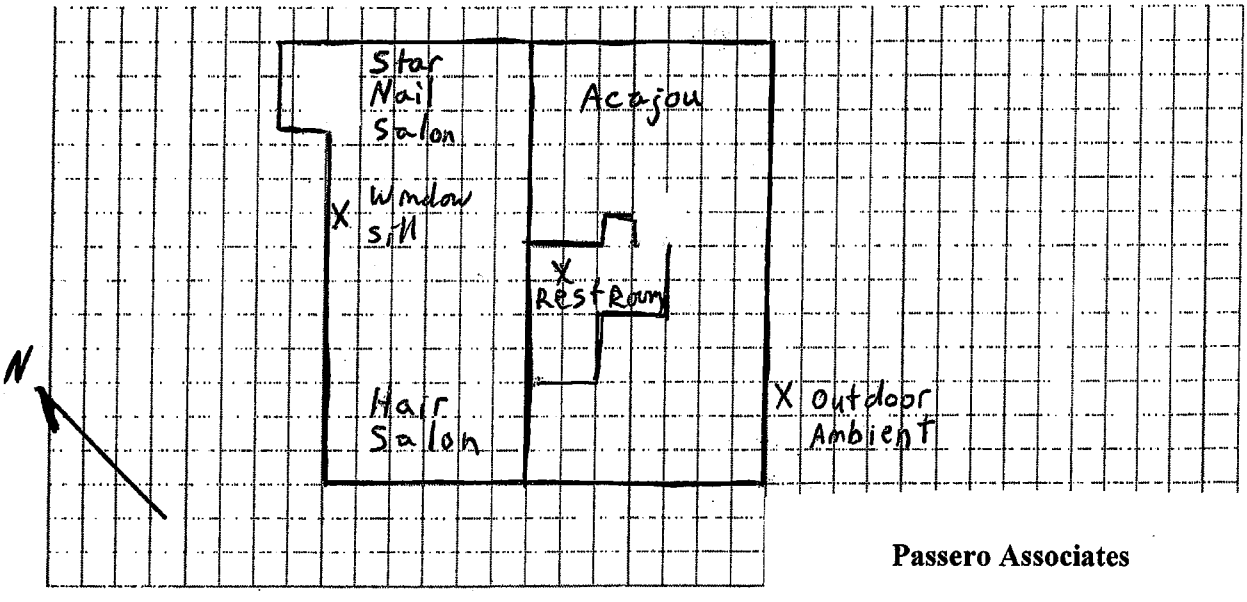
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor: Sample Locations



Passero Associates

Figure 1: Sample Location Map

Speedy's Cleaners
3130 Monroe Avenue
Town of Pittsford
Rochester, New York 14618

NYSDEC Site # C828109

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MiniRae 2000

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
STAR Nails	Acrylic Liquid monomer			MSDS attached	<1.0	N
STAR Nails	Isopropyl Alcohol			MSDS attached	<1.0	N

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NO
MMA

MATERIAL SAFETY DATA SHEET

KDS NAILS CO.
8580 YOUNGER CREEK
SACRAMENTO, CA 958
(916) 381-9358

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Material Identity
Product Name: ACRYLIC LIQUID MONOMER
Product Number: ACR25HX

2. COMPOSITION/INFORMATION INGREDIENTS

INGREDIENT (S): Acrylic Liquid Monomer

3. HAZARDS INDENTIFICATION

Potential Health Effects
Eye: Exposure can cause eye irritation. Symptoms may include stinging, tearing, redness, and swelling
Skin: Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin.
Symptoms may include redness, burning, drying and cracking, and skin burns. Skin absorption is possible, but harmful effects ar
expected from this route of exposure under normal conditions of handling and use.
Swallowing: Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful
effects; swallowing large amounts may be harmful.
Inhalation: Exposure to vapor or mist is possible. Short-term inhalation toxicity is moderate. Exposure may be harmful. Symp
are more typically seen at air concentrations exceeding the recommended exposure limits. Breathing air containing Ethyl
Methacrylate, which results from its use in aerosol applications, may cause delayed lung injury.
Symptoms of Exposure: Gastrointestinal irritation (nausea, vomiting, diarrhea), irritation (nose, throat, respiratory tract), central
nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), narcosis (characterizec
stupor or insensibility).

4. FIRST AID MEASURES

Eyes: Incase of contact, immediately flush eyes gently with water plenty of water for at least 15 minutes. Obtain medical attentic
Skin: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.
Launder clothing before reuse.
Swallowing: Give individual two glasses of mild or water to drink. If symptoms develop, seek medical attention.
Inhalation: Remove to fresh air. If not breathing, give CPR. If breathing is difficult, give oxygen. Get immediate medical attent

5. FIRE FIGHTING MEASURES

Flash Point: 50°F
Flash Point Method: Not Available

Lower Explosive Limit: 2.1%
Upper Explosive Limit: 12.5%

Other Flammable Properties: Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures m
occur at temperatures at or above the flash point.
Extinguishing Media: Use water spray or fog, foam, and dry chemical or CO_2.
Fire Fighting Procedures: Containers can build up pressure if exposed to heat (fire). Cool with water spray. As in any fire, wear
self-contained, pressure-demand breathing apparatus (MSHA-NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Remove sources of ignition and ventilate area. Use a respirator an
other protective equipment as outlined in Section 8. Absorb spill with inert material, then place in a chemical waste container. Aft
removal, flush contaminated area with water. Clean up spills immediately. Obey relevant local, state and federal laws and
regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

7. HANDLING AND STORAGE

Handling: Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and
clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Ground and bond containers when transferring material.
Use explosion-proof equipment. Follow all MSDS/Label precautions even after the container is emptied because it may retain prod
residues. Wash thoroughly after handling.
Storage: Store is a cool, dry place. Keep container closed when not is use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

	Value	Limit	Reference
Ethyl methacrylate	100ppm	TWA	OSHA/ACGIH
	N.E.	STEL	OSHA/ACGIH

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.
Respiratory Protection: In case of overexposure, use appropriate NIOSH-approved respiratory protective equipment.
Eye Protection: Use chemical splash goggles.
Skin Protection: Use impermeable gloves to minimize skin contact.
Other Protective Equipment: To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: 40 mmHg @ 26°C
Vapor Density (Air = 1): Is heavier than air
Specific Gravity: 0.94
Boiling Point: 214°C
Melting Point: -54°F
pH: Not Available
% Volatile: 100
Evaporation Rate: Is faster than Butyl Acetate

Other Properties: Colorless. Clear. Liquid. Pungent odor. Solubility in water: 1%-10%

10. STABILITY AND REACTIVITY

Stability: This product is stable under normal storage conditions.
Hazardous Polymerization: Could occur under normal conditions.
Conditions To Avoid: High temperatures and sources of ignition.
Incompatibility With Other Materials: Oxidizing materials. Mineral acids. Reducing agents.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Component Toxicological Information:

Product Name	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Acrylic Liquid Monomer	7872 mg/kg	9400 mg/kg	3750 ppm

12. ECOLOGICAL INFORMATION

Ecological Information: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Method: Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

14. TRANSPORTATION INFORMATION

U.S. DOT Transport Information
Proper Shipping Name: Methyl Methacrylate Monomer, inhibited
Hazard Class: 3 Packing Group: II
RQ (lbs.): 1000
I.D. Number: UN~~1247~~ 1247 ERG No: 26 Hazard Subclasses: None
Transport Label (s) Required: FLAMMABLE LIQUID

15. REGULATORY INFORMATION

This product contains the following non-hazardous components:
No non-hazardous components exist
U.S. Federal Regulations
OSHA: This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standa
SARA Section 311/312: Hazard Classifications: Immediate (acute). Fire

70% Isopropyl Alcohol in Water

SECTION I Date Prepared: April 1, 2004

Manufacturer: Divina Products Emergency Number: 1-800-633-8253

Address: 55 CONTAINER DR TERRYVILLE, CT 06786 Telephone # for Information 1-860-589-7502

SECTION II - Hazardous Ingredients and Identity Information

1. Synonymous Terms for Isopropyl Alcohol
   a) 2-Propanol
   b) Dimethyl Carbinol
2. Chemical Formula for Isopropyl Alcohol
   (CH 3) CHOH
3. Chemical Family for Isopropyl Alcohol
   Aliphatic Alcohol
4. CAS #67-63-0

SECTION III - Physical and Chemical Characteristics

Boiling Point: 180°F Specific Gravity:at 39.2°F AP 0.877

Vapor Pressure 60-92°F Solubility in Water: complete

Appearance/Odor: Clear, colorless liquid with medicinal odor

VOC: 595 gm/L

SECTION IV - Fire and Explosion Hazard Data

Flash Point: AP 70°F (TOC) Flammable Limits: GT 750°F LEL - 2.0 UEL - 12.0

Extinguishing Media: Dry chemical or alcohol-type foam, water spray may be ineffective.

Special Fire Fighting Procedure: Do not enter fire area without proper protection. Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire and Explosion Hazards: Respiratory protection required for fire department personnel. Releases flammable vapor which may burn and explode.

Hazard Rating: Acute health = 2 Fire = 3 Reactivity = 0

SECTION V - Reactivity Data

Stability: Stable

Incompatibility: Aluminum metal keystone, exposure to air, strong oxidizer

Hazardous Decomposition/Byproducts: Incomplete combustion will generate highly poisonous carbon monoxide and perhaps other gases.

SECTION VI - Health Hazard Data

Health Hazards: Burns and injury due to fire and explosion, direct liquid or concentrated vapor in contact with eyes. Inhalation of excessive vapor or aerosol.

Carcinogenicity: N/A NTP: N/A IARC Monographs: N/A OSHA regulated: N/A

Signs/Symptoms of Exposure: Inhalation: Coughing, shortness of breath, dizziness
Eyes: Moderate burning, tearing and redness
Ingestion: Swallowing may result in toxic effects

Emergency/First Aid Procedure: Inhalation: Move victim to fresh air-administer oxygen.
Eyes: Flush with clean low pressure water for 15 minutes.
Ingestion: Give 1 pint of warm water if completely conscious.
In all cases seek emergency medical attention immediately.

SECTION VII - Precautions for Safe Handling and Use

Steps To Take for Release/Spillage: Release may cause fire/explosion. Extinguish all ignition sources, halt, release, notify fire/water supply pollution control authorities. Blanket spill with foam to limit vapor emission - material is soluble/will float. May be toxic to aquatic life. If released notify 1-800-633-8253.

Waste Disposal Method: Consult a disposal expert and ensure conformity to local regulations contain spilled liquid, recover free liquid with suitable absorbent.

Precautions for Handling and Storing: Store only in tightly closed or properly vented containers away from heat sparks, open flame or strong oxidizing agents. Empty containers must be handled with care because of flammable vapors that remain. Do not store or ship in aluminum containers. It will also attack some forms of plastic and rubber coatings.

SECTION VIII - Control Measures

Respiratory Protection: Air supplied mask when vapor concentration is high or organic vapor consist.

Ventilation: Local Exhaust: As necessary Mechanical: Explosion-proof ventilation equipment
Other: No smoking or open lights

Protective Gloves: Chemically resistant gloves Eye Protection: Chemical splash goggles

MATERIAL SAFETY DATA SHEET
Acetone Nail Polish Remover

Date Prepared: JAN. 5, 2005
Emergency Number: 1-800-633-8253
Telephone # for Information 1-860-589-7502

SECTION I
Manufacturer: Phoenix Divina Product
Address: 55 CONTAINER DR TERRYVILLE, CT 06786

SECTION II - Hazardous Ingredients and Identity Information
Acetone
2 - Propanone
Di Methyl Ketone
Acetone, 3 , UN # 1090, CAS # 67-64-1
Acetone Nail Polish Remover
Flammable Liquid

SECTION III - Physical and Chemical Characteristics
Boiling Point: (56.5°C)
Specific Gravity:60°F (0.80)
Vapor Density; (2.0)
Vapor Pressure: 60°F (186)
Evaporation Rate: (5.6)
Melting Point: N/A
Solubility in Water: Complete
Appearance/Odor: Colorless, mild liquid.

SECTION IV - Fire and Explosion Hazard Data
Flash Point: -15°FClosed cup LEL: 2.6 UEL: 12.8
Extinguishing Media: Use water, fog, dry chemical or carbon dioxide
Special Fire Fighting Procedure: Danger extremely flammable clear fire area of unprotected personnel and isolate. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots). Cool fire exposed containers with water.
Unusual Fire and Explosion Hazards: Containers exposed to intense heat from fire should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening container structure.

SECTION V - Reactivity Data
Stability: Stable

SECTION VI - Health Hazard Data
Health Hazards: Acute health hazard. Burns and injury due to fire and explosion. Direct liquid or concentrated vapor in contact with eyes, skin or mucous membrane. Pre-existing eye and skin disorders may be aggravated by exposure to acetone.
Carcinogenicity: N/A NTP: N/A IARC Monographs: N/A OSHA regulated: N/A
Signs/Symptoms of Exposure: Liquid is severely irritating to eyes, mildly irritating to the skin, high vapor concentrations and ingestion may cause central nervous system depression. Symptoms are giddiness, headache, dizziness and nausea. Pre-existing eye and skin disorders may be aggravated.
Emergency/First Aid Procedure:
Eyes: Flush eyes with clean, low pressure water for at least 15 minutes.
Skin: Flush skin with water.
Inhalation: Remove victims to fresh air and provide oxygen.
Ingestion: Do not give liquids if victim is unconscious, otherwise give 2 glasses of water - induce vomiting.
In all emergency cases seek medical attention.

SECTION VII - Precautions for Safe Handling and Use
Steps To Take for Release/Spillage: Release may cause fire/explosion. Extinguish all ignition sources which would include heat, sparks and flame. Halt release. Notify Fire/Water Supply/Pollution Control Authorities. Blanket spill with foam to limit vapor emission.
Waste Disposal Method: Consult a disposal expert and ensure conformity to local regulations. Contain spilled liquid; recover free liquid with suitable absorbent. Waste disposal under EPA-RCRA (40 CFR 261.33), If acetone becomes a waste material it would be a Hazardous Waste #U002. Refer to latest EPA regulations.
Precautions for Handling and Storing: Flammable liquid release causes immediate fire/explosion hazard. Liquid vapors may ignite. Evacuate/limit access. Store only in tightly closed or properly vented containers away from heat, sparks, or strong oxidizing agents. Empty containers must be handled with care because of flammable vapors that remain. Do not cut, drill, grind, weld or perform similar operations on or near containers. Static electricity may accumulate and create a fire hazard. Bond and ground transfer container.

SECTION VIII - Control Measures
Respiratory Protection: Use NIOSH/OSHA approved air-purifying or supplied air respirator.
Ventilation: Local Exhaust: As necessary Mechanical: Explosion proof ventilation system
Eye Protection: Chemical splash goggles or face shield Protective Gloves: Chemically resistant gloves
Work/Hygienic Practices: Use good personal hygine practices. Wash hands with soap and water before eating,

APPENDIX 4
Air Analytical Data

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	5.0		ppbV	1	9/21/2005
1,1,2,2-Tetrachloroethane	ND	5.0		ppbV	1	9/21/2005
1,1,2-Trichloroethane	ND	5.0		ppbV	1	9/21/2005
1,1-Dichloroethane	ND	5.0		ppbV	1	9/21/2005
1,1-Dichloroethene	ND	5.0		ppbV	1	9/21/2005
1,2,4-Trichlorobenzene	ND	5.0		ppbV	1	9/21/2005
1,2,4-Trimethylbenzene	3	5.0	J	ppbV	1	9/21/2005
1,2-Dibromoethane	ND	5.0		ppbV	1	9/21/2005
1,2-Dichlorobenzene	ND	5.0		ppbV	1	9/21/2005
1,2-Dichloroethane	ND	5.0		ppbV	1	9/21/2005
1,2-Dichloropropane	ND	5.0		ppbV	1	9/21/2005
1,3,5-Trimethylbenzene	ND	5.0		ppbV	1	9/21/2005
1,3-butadiene	ND	5.0		ppbV	1	9/21/2005
1,3-Dichlorobenzene	ND	5.0		ppbV	1	9/21/2005
1,4-Dichlorobenzene	ND	5.0		ppbV	1	9/21/2005
1,4-Dioxane	ND	5.0		ppbV	1	9/21/2005
2,2,4-trimethylpentane	ND	5.0		ppbV	1	9/21/2005
4-ethyltoluene	1	5.0	J	ppbV	1	9/21/2005
Acetone	ND	5.0		ppbV	1	9/21/2005
Allyl chloride	ND	5.0		ppbV	1	9/21/2005
Benzene	10	5.0		ppbV	1	9/21/2005
Benzyl chloride	ND	5.0		ppbV	1	9/21/2005
Bromodichloromethane	ND	5.0		ppbV	1	9/21/2005
Bromoform	ND	5.0		ppbV	1	9/21/2005
Bromomethane	ND	5.0		ppbV	1	9/21/2005
Carbon disulfide	ND	5.0		ppbV	1	9/21/2005
Carbon tetrachloride	ND	5.0		ppbV	1	9/21/2005
Chlorobenzene	ND	5.0		ppbV	1	9/21/2005
Chloroethane	ND	5.0		ppbV	1	9/21/2005
Chloroform	ND	5.0		ppbV	1	9/21/2005
Chloromethane	ND	5.0		ppbV	1	9/21/2005
cis-1,2-Dichloroethene	33	5.0		ppbV	1	9/21/2005
cis-1,3-Dichloropropene	ND	5.0		ppbV	1	9/21/2005
Cyclohexane	12	5.0		ppbV	1	9/21/2005
Dibromochloromethane	ND	5.0		ppbV	1	9/21/2005
Ethyl acetate	ND	5.0		ppbV	1	9/21/2005
Ethylbenzene	3	5.0	J	ppbV	1	9/21/2005
Freon 11	ND	5.0		ppbV	1	9/21/2005
Freon 113	ND	5.0		ppbV	1	9/21/2005
Freon 114	ND	5.0		ppbV	1	9/21/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15		**TO-15**				Analyst: **RJP**
Freon 12	ND	5.0		ppbV	1	9/21/2005
Heptane	6.3	5.0		ppbV	1	9/21/2005
Hexachloro-1,3-butadiene	ND	5.0		ppbV	1	9/21/2005
Hexane	31	5.0		ppbV	1	9/21/2005
Isopropyl alcohol	ND	5.0		ppbV	1	9/21/2005
m-Xylene	9.3	5.0		ppbV	1	9/21/2005
Methyl Butyl Ketone	ND	5.0		ppbV	1	9/21/2005
Methyl Ethyl Ketone	ND	5.0		ppbV	1	9/21/2005
Methyl Isobutyl Ketone	ND	5.0		ppbV	1	9/21/2005
Methyl tert-butyl ether	ND	5.0		ppbV	1	9/21/2005
Methylene chloride	ND	5.0		ppbV	1	9/21/2005
o-Xylene	5	5.0	J	ppbV	1	9/21/2005
p-Xylene	4	5.0	J	ppbV	1	9/21/2005
Propylene	ND	5.0		ppbV	1	9/21/2005
Styrene	ND	5.0		ppbV	1	9/21/2005
Tetrachloroethylene	1200	50		ppbV	10	9/21/2005
Tetrahydrofuran	ND	5.0		ppbV	1	9/21/2005
Toluene	85	5.0		ppbV	1	9/21/2005
trans-1,2-Dichloroethene	4	5.0	J	ppbV	1	9/21/2005
trans-1,3-Dichloropropene	ND	5.0		ppbV	1	9/21/2005
Trichloroethene	84	5.0		ppbV	1	9/21/2005
Vinyl acetate	ND	5.0		ppbV	1	9/21/2005
Vinyl Bromide	ND	5.0		ppbV	1	9/21/2005
Vinyl chloride	ND	5.0		ppbV	1	9/21/2005
Surr: Bromofluorobenzene	97.7	70-130		%REC	1	9/21/2005
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	1	3.0	J	ppbV	20	9/20/2005
1,1,2,2-Tetrachloroethane	ND	3.0		ppbV	20	9/20/2005
1,1,2-Trichloroethane	ND	3.0		ppbV	20	9/20/2005
1,1-Dichloroethane	ND	3.0		ppbV	20	9/20/2005
1,1-Dichloroethene	ND	3.0		ppbV	20	9/20/2005
1,2,4-Trichlorobenzene	ND	3.0		ppbV	20	9/20/2005
1,2,4-Trimethylbenzene	3.4	3.0		ppbV	20	9/20/2005
1,2-Dibromoethane	ND	3.0		ppbV	20	9/20/2005
1,2-Dichlorobenzene	ND	3.0		ppbV	20	9/20/2005
1,2-Dichloroethane	ND	3.0		ppbV	20	9/20/2005
1,2-Dichloropropane	ND	3.0		ppbV	20	9/20/2005
1,3,5-Trimethylbenzene	1	3.0	J	ppbV	20	9/20/2005
1,3-butadiene	ND	3.0		ppbV	20	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
1,3-Dichlorobenzene	ND	3.0		ppbV	20	9/20/2005
1,4-Dichlorobenzene	ND	3.0		ppbV	20	9/20/2005
1,4-Dioxane	ND	6.0		ppbV	20	9/20/2005
2,2,4-trimethylpentane	ND	3.0		ppbV	20	9/20/2005
4-ethyltoluene	2	3.0	J	ppbV	20	9/20/2005
Acetone	ND	6.0		ppbV	20	9/20/2005
Allyl chloride	ND	3.0		ppbV	20	9/20/2005
Benzene	1	3.0	J	ppbV	20	9/20/2005
Benzyl chloride	ND	3.0		ppbV	20	9/20/2005
Bromodichloromethane	ND	3.0		ppbV	20	9/20/2005
Bromoform	ND	3.0		ppbV	20	9/20/2005
Bromomethane	ND	3.0		ppbV	20	9/20/2005
Carbon disulfide	ND	3.0		ppbV	20	9/20/2005
Carbon tetrachloride	ND	3.0		ppbV	20	9/20/2005
Chlorobenzene	ND	3.0		ppbV	20	9/20/2005
Chloroethane	ND	3.0		ppbV	20	9/20/2005
Chloroform	2	3.0	J	ppbV	20	9/20/2005
Chloromethane	ND	3.0		ppbV	20	9/20/2005
cis-1,2-Dichloroethene	52	3.0	E	ppbV	20	9/20/2005
cis-1,3-Dichloropropene	ND	3.0		ppbV	20	9/20/2005
Cyclohexane	ND	3.0		ppbV	20	9/20/2005
Dibromochloromethane	ND	3.0		ppbV	20	9/20/2005
Ethyl acetate	ND	5.0		ppbV	20	9/20/2005
Ethylbenzene	3.4	3.0		ppbV	20	9/20/2005
Freon 11	ND	3.0		ppbV	20	9/20/2005
Freon 113	1	3.0	J	ppbV	20	9/20/2005
Freon 114	ND	3.0		ppbV	20	9/20/2005
Freon 12	ND	3.0		ppbV	20	9/20/2005
Heptane	ND	3.0		ppbV	20	9/20/2005
Hexachloro-1,3-butadiene	ND	3.0		ppbV	20	9/20/2005
Hexane	ND	3.0		ppbV	20	9/20/2005
Isopropyl alcohol	ND	3.0		ppbV	20	9/20/2005
m-Xylene	7.2	3.0		ppbV	20	9/20/2005
Methyl Butyl Ketone	ND	6.0		ppbV	20	9/20/2005
Methyl Ethyl Ketone	ND	6.0		ppbV	20	9/20/2005
Methyl Isobutyl Ketone	ND	6.0		ppbV	20	9/20/2005
Methyl tert-butyl ether	ND	3.0		ppbV	20	9/20/2005
Methylene chloride	ND	3.0		ppbV	20	9/20/2005
o-Xylene	3.4	3.0		ppbV	20	9/20/2005
p-Xylene	3	3.0	J	ppbV	20	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
Propylene	ND	3.0		ppbV	20	9/20/2005
Styrene	ND	3.0		ppbV	20	9/20/2005
Tetrachloroethylene	2600	3.0	E	ppbV	20	9/20/2005
Tetrahydrofuran	ND	3.0		ppbV	20	9/20/2005
Toluene	120	3.0	E	ppbV	20	9/20/2005
trans-1,2-Dichloroethene	5.6	3.0		ppbV	20	9/20/2005
trans-1,3-Dichloropropene	ND	3.0		ppbV	20	9/20/2005
Trichloroethene	160	3.0	E	ppbV	20	9/20/2005
Vinyl acetate	ND	3.0		ppbV	20	9/20/2005
Vinyl Bromide	ND	3.0		ppbV	20	9/20/2005
Vinyl chloride	ND	3.0		ppbV	20	9/20/2005
Surr: Bromofluorobenzene	84.0	70-130		%REC	20	9/20/2005

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument. See Method TO-15 for final result

* Due to the high concentration of the target analyte, the sample was analyzed at a 20x dilution.

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 1
Lab Order:	C0509015	**Tag Number:**	196, 53
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trimethylbenzene	ND	3.00		ppbV	20	9/20/2005
1,2-Dibromoethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloropropane	ND	0.150		ppbV	1	9/20/2005
1,3,5-Trimethylbenzene	1.45	0.150		ppbV	1	9/20/2005
1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dioxane	ND	0.300		ppbV	1	9/20/2005
2,2,4-trimethylpentane	0.610	0.150		ppbV	1	9/20/2005
4-ethyltoluene	0.700	0.150		ppbV	1	9/20/2005
Acetone	ND	0.300		ppbV	1	9/20/2005
Allyl chloride	ND	0.150		ppbV	1	9/20/2005
Benzene	1.09	0.150		ppbV	1	9/20/2005
Benzyl chloride	ND	0.150		ppbV	1	9/20/2005
Bromodichloromethane	ND	0.150		ppbV	1	9/20/2005
Bromoform	ND	0.150		ppbV	1	9/20/2005
Bromomethane	ND	0.150		ppbV	1	9/20/2005
Carbon disulfide	ND	0.150		ppbV	1	9/20/2005
Carbon tetrachloride	0.10	0.150	J	ppbV	1	9/20/2005
Chlorobenzene	ND	0.150		ppbV	1	9/20/2005
Chloroethane	ND	0.150		ppbV	1	9/20/2005
Chloroform	0.190	0.150		ppbV	1	9/20/2005
Chloromethane	ND	0.150		ppbV	1	9/20/2005
cis-1,2-Dichloroethene	3.40	3.00		ppbV	20	9/20/2005
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Cyclohexane	1.18	0.150		ppbV	1	9/20/2005
Dibromochloromethane	ND	0.150		ppbV	1	9/20/2005
Ethyl acetate	ND	0.250		ppbV	1	9/20/2005
Ethylbenzene	13.8	3.00		ppbV	20	9/20/2005
Freon 11	0.280	0.150		ppbV	1	9/20/2005
Freon 113	0.13	0.150	J	ppbV	1	9/20/2005
Freon 114	ND	0.150		ppbV	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 1
Lab Order:	C0509015	**Tag Number:**	196, 53
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	0.570	0.150		ppbV	1	9/20/2005
Heptane	0.760	0.150		ppbV	1	9/20/2005
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
Hexane	1.50	0.150		ppbV	1	9/20/2005
Isopropyl alcohol	ND	0.150		ppbV	1	9/20/2005
m-Xylene	45.6	18.0		ppbV	120	9/20/2005
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl Ethyl Ketone	1.93	0.300		ppbV	1	9/20/2005
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/20/2005
Methylene chloride	0.270	0.150		ppbV	1	9/20/2005
o-Xylene	37.6	3.00		ppbV	20	9/20/2005
p-Xylene	27.6	3.00		ppbV	20	9/20/2005
Propylene	ND	0.150		ppbV	1	9/20/2005
Styrene	ND	0.150		ppbV	1	9/20/2005
Tetrachloroethylene	161	18.0		ppbV	120	9/20/2005
Tetrahydrofuran	ND	0.150		ppbV	1	9/20/2005
Toluene	10.8	3.00		ppbV	20	9/20/2005
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Trichloroethene	3.20	0.800		ppbV	20	9/20/2005
Vinyl acetate	ND	0.150		ppbV	1	9/20/2005
Vinyl Bromide	ND	0.150		ppbV	1	9/20/2005
Vinyl chloride	0.290	0.150		ppbV	1	9/20/2005
Surr: Bromofluorobenzene	124	70-130		%REC	1	9/20/2005

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 2
Lab Order:	C0509015	**Tag Number:**	137, 65
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trimethylbenzene	ND	3.00		ppbV	20	9/20/2005
1,2-Dibromoethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloropropane	ND	0.150		ppbV	1	9/20/2005
1,3,5-Trimethylbenzene	1.21	0.150		ppbV	1	9/20/2005
1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dioxane	ND	0.300		ppbV	1	9/20/2005
2,2,4-trimethylpentane	0.580	0.150		ppbV	1	9/20/2005
4-ethyltoluene	0.660	0.150		ppbV	1	9/20/2005
Acetone	ND	0.300		ppbV	1	9/20/2005
Allyl chloride	ND	0.150		ppbV	1	9/20/2005
Benzene	1.19	0.150		ppbV	1	9/20/2005
Benzyl chloride	ND	0.150		ppbV	1	9/20/2005
Bromodichloromethane	ND	0.150		ppbV	1	9/20/2005
Bromoform	ND	0.150		ppbV	1	9/20/2005
Bromomethane	ND	0.150		ppbV	1	9/20/2005
Carbon disulfide	ND	0.150		ppbV	1	9/20/2005
Carbon tetrachloride	0.10	0.150	J	ppbV	1	9/20/2005
Chlorobenzene	ND	0.150		ppbV	1	9/20/2005
Chloroethane	ND	0.150		ppbV	1	9/20/2005
Chloroform	0.210	0.150		ppbV	1	9/20/2005
Chloromethane	ND	0.150		ppbV	1	9/20/2005
cis-1,2-Dichloroethene	3.00	3.00		ppbV	20	9/20/2005
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Cyclohexane	1.08	0.150		ppbV	1	9/20/2005
Dibromochloromethane	ND	0.150		ppbV	1	9/20/2005
Ethyl acetate	ND	0.250		ppbV	1	9/20/2005
Ethylbenzene	14.4	3.00		ppbV	20	9/20/2005
Freon 11	0.280	0.150		ppbV	1	9/20/2005
Freon 113	0.14	0.150	J	ppbV	1	9/20/2005
Freon 114	ND	0.150		ppbV	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 2
Lab Order:	C0509015	**Tag Number:**	137, 65
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	0.610	0.150		ppbV	1	9/20/2005
Heptane	0.770	0.150		ppbV	1	9/20/2005
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
Hexane	1.43	0.150		ppbV	1	9/20/2005
Isopropyl alcohol	ND	0.150		ppbV	1	9/20/2005
m-Xylene	27.6	18.0		ppbV	120	9/20/2005
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl Ethyl Ketone	1.98	0.300		ppbV	1	9/20/2005
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/20/2005
Methylene chloride	0.180	0.150		ppbV	1	9/20/2005
o-Xylene	40.2	3.00		ppbV	20	9/20/2005
p-Xylene	24.8	3.00		ppbV	20	9/20/2005
Propylene	ND	0.150		ppbV	1	9/20/2005
Styrene	ND	0.150		ppbV	1	9/20/2005
Tetrachloroethylene	91.2	18.0		ppbV	120	9/20/2005
Tetrahydrofuran	ND	0.150		ppbV	1	9/20/2005
Toluene	11.0	3.00		ppbV	20	9/20/2005
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Trichloroethene	3.00	0.800		ppbV	20	9/20/2005
Vinyl acetate	ND	0.150		ppbV	1	9/20/2005
Vinyl Bromide	ND	0.150		ppbV	1	9/20/2005
Vinyl chloride	0.300	0.150		ppbV	1	9/20/2005
Surr: Bromofluorobenzene	121	70-130		%REC	1	9/20/2005

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Outdoor
Lab Order:	C0509015	**Tag Number:**	225, 179
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trimethylbenzene	1.43	0.150		ppbV	1	9/20/2005
1,2-Dibromoethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloropropane	ND	0.150		ppbV	1	9/20/2005
1,3,5-Trimethylbenzene	0.470	0.150		ppbV	1	9/20/2005
1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dioxane	ND	0.300		ppbV	1	9/20/2005
2,2,4-trimethylpentane	1.04	0.150		ppbV	1	9/20/2005
4-ethyltoluene	0.510	0.150		ppbV	1	9/20/2005
Acetone	ND	0.300		ppbV	1	9/20/2005
Allyl chloride	ND	0.150		ppbV	1	9/20/2005
Benzene	1.63	0.150		ppbV	1	9/20/2005
Benzyl chloride	ND	0.150		ppbV	1	9/20/2005
Bromodichloromethane	ND	0.150		ppbV	1	9/20/2005
Bromoform	ND	0.150		ppbV	1	9/20/2005
Bromomethane	ND	0.150		ppbV	1	9/20/2005
Carbon disulfide	ND	0.150		ppbV	1	9/20/2005
Carbon tetrachloride	ND	0.150		ppbV	1	9/20/2005
Chlorobenzene	ND	0.150		ppbV	1	9/20/2005
Chloroethane	ND	0.150		ppbV	1	9/20/2005
Chloroform	ND	0.150		ppbV	1	9/20/2005
Chloromethane	ND	0.150		ppbV	1	9/20/2005
cis-1,2-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Cyclohexane	0.940	0.150		ppbV	1	9/20/2005
Dibromochloromethane	ND	0.150		ppbV	1	9/20/2005
Ethyl acetate	ND	0.250		ppbV	1	9/20/2005
Ethylbenzene	1.13	0.150		ppbV	1	9/20/2005
Freon 11	0.280	0.150		ppbV	1	9/20/2005
Freon 113	0.14	0.150	J	ppbV	1	9/20/2005
Freon 114	ND	0.150		ppbV	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Outdoor
Lab Order:	C0509015	**Tag Number:**	225, 179
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	0.580	0.150		ppbV	1	9/20/2005
Heptane	0.710	0.150		ppbV	1	9/20/2005
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
Hexane	2.13	0.150		ppbV	1	9/20/2005
Isopropyl alcohol	ND	0.150		ppbV	1	9/20/2005
m-Xylene	1.90	1.50		ppbV	10	9/20/2005
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl Ethyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/20/2005
Methylene chloride	0.260	0.150		ppbV	1	9/20/2005
o-Xylene	1.46	0.150		ppbV	1	9/20/2005
p-Xylene	1.14	0.150		ppbV	1	9/20/2005
Propylene	ND	0.150		ppbV	1	9/20/2005
Styrene	ND	0.150		ppbV	1	9/20/2005
Tetrachloroethylene	0.620	0.150		ppbV	1	9/20/2005
Tetrahydrofuran	ND	0.150		ppbV	1	9/20/2005
Toluene	5.80	1.50		ppbV	10	9/20/2005
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Trichloroethene	0.0900	0.0400		ppbV	1	9/20/2005
Vinyl acetate	ND	0.150		ppbV	1	9/20/2005
Vinyl Bromide	ND	0.150		ppbV	1	9/20/2005
Vinyl chloride	ND	0.150		ppbV	1	9/20/2005
Surr: Bromofluorobenzene	100	70-130		%REC	1	9/20/2005

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	28		ug/m3	1	9/21/2005
1,1,2,2-Tetrachloroethane	ND	35		ug/m3	1	9/21/2005
1,1,2-Trichloroethane	ND	28		ug/m3	1	9/21/2005
1,1-Dichloroethane	ND	21		ug/m3	1	9/21/2005
1,1-Dichloroethene	ND	20		ug/m3	1	9/21/2005
1,2,4-Trichlorobenzene	ND	38		ug/m3	1	9/21/2005
1,2,4-Trimethylbenzene	14	25	J	ug/m3	1	9/21/2005
1,2-Dibromoethane	ND	39		ug/m3	1	9/21/2005
1,2-Dichlorobenzene	ND	31		ug/m3	1	9/21/2005
1,2-Dichloroethane	ND	21		ug/m3	1	9/21/2005
1,2-Dichloropropane	ND	23		ug/m3	1	9/21/2005
1,3,5-Trimethylbenzene	ND	25		ug/m3	1	9/21/2005
1,3-butadiene	ND	11		ug/m3	1	9/21/2005
1,3-Dichlorobenzene	ND	31		ug/m3	1	9/21/2005
1,4-Dichlorobenzene	ND	31		ug/m3	1	9/21/2005
1,4-Dioxane	ND	18		ug/m3	1	9/21/2005
2,2,4-trimethylpentane	ND	24		ug/m3	1	9/21/2005
4-ethyltoluene	6.4	25	J	ug/m3	1	9/21/2005
Acetone	ND	12		ug/m3	1	9/21/2005
Allyl chloride	ND	16		ug/m3	1	9/21/2005
Benzene	33	16		ug/m3	1	9/21/2005
Benzyl chloride	ND	29		ug/m3	1	9/21/2005
Bromodichloromethane	ND	34		ug/m3	1	9/21/2005
Bromoform	ND	53		ug/m3	1	9/21/2005
Bromomethane	ND	20		ug/m3	1	9/21/2005
Carbon disulfide	ND	16		ug/m3	1	9/21/2005
Carbon tetrachloride	ND	32		ug/m3	1	9/21/2005
Chlorobenzene	ND	23		ug/m3	1	9/21/2005
Chloroethane	ND	13		ug/m3	1	9/21/2005
Chloroform	ND	25		ug/m3	1	9/21/2005
Chloromethane	ND	10		ug/m3	1	9/21/2005
cis-1,2-Dichloroethene	130	20		ug/m3	1	9/21/2005
cis-1,3-Dichloropropene	ND	23		ug/m3	1	9/21/2005
Cyclohexane	42	17		ug/m3	1	9/21/2005
Dibromochloromethane	ND	43		ug/m3	1	9/21/2005
Ethyl acetate	ND	18		ug/m3	1	9/21/2005
Ethylbenzene	15	22	J	ug/m3	1	9/21/2005
Freon 11	ND	29		ug/m3	1	9/21/2005
Freon 113	ND	39		ug/m3	1	9/21/2005
Freon 114	ND	36		ug/m3	1	9/21/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15		**TO-15**				Analyst: **RJP**
Freon 12	ND	25		ug/m3	1	9/21/2005
Heptane	26	21		ug/m3	1	9/21/2005
Hexachloro-1,3-butadiene	ND	54		ug/m3	1	9/21/2005
Hexane	110	18		ug/m3	1	9/21/2005
Isopropyl alcohol	ND	12		ug/m3	1	9/21/2005
m-Xylene	41	22		ug/m3	1	9/21/2005
Methyl Butyl Ketone	ND	21		ug/m3	1	9/21/2005
Methyl Ethyl Ketone	ND	15		ug/m3	1	9/21/2005
Methyl Isobutyl Ketone	ND	21		ug/m3	1	9/21/2005
Methyl tert-butyl ether	ND	18		ug/m3	1	9/21/2005
Methylene chloride	ND	18		ug/m3	1	9/21/2005
o-Xylene	21	22	J	ug/m3	1	9/21/2005
p-Xylene	20	22	J	ug/m3	1	9/21/2005
Propylene	ND	8.7		ug/m3	1	9/21/2005
Styrene	ND	22		ug/m3	1	9/21/2005
Tetrachloroethylene	8300	340		ug/m3	10	9/21/2005
Tetrahydrofuran	ND	15		ug/m3	1	9/21/2005
Toluene	330	19		ug/m3	1	9/21/2005
trans-1,2-Dichloroethene	16	20	J	ug/m3	1	9/21/2005
trans-1,3-Dichloropropene	ND	23		ug/m3	1	9/21/2005
Trichloroethene	460	27		ug/m3	1	9/21/2005
Vinyl acetate	ND	18		ug/m3	1	9/21/2005
Vinyl Bromide	ND	22		ug/m3	1	9/21/2005
Vinyl chloride	ND	13		ug/m3	1	9/21/2005
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	6.7	17	J	ug/m3	20	9/20/2005
1,1,2,2-Tetrachloroethane	ND	21		ug/m3	20	9/20/2005
1,1,2-Trichloroethane	ND	17		ug/m3	20	9/20/2005
1,1-Dichloroethane	ND	12		ug/m3	20	9/20/2005
1,1-Dichloroethene	ND	12		ug/m3	20	9/20/2005
1,2,4-Trichlorobenzene	ND	23		ug/m3	20	9/20/2005
1,2,4-Trimethylbenzene	17	15		ug/m3	20	9/20/2005
1,2-Dibromoethane	ND	23		ug/m3	20	9/20/2005
1,2-Dichlorobenzene	ND	18		ug/m3	20	9/20/2005
1,2-Dichloroethane	ND	12		ug/m3	20	9/20/2005
1,2-Dichloropropane	ND	14		ug/m3	20	9/20/2005
1,3,5-Trimethylbenzene	6.0	15	J	ug/m3	20	9/20/2005
1,3-butadiene	ND	6.7		ug/m3	20	9/20/2005
1,3-Dichlorobenzene	ND	18		ug/m3	20	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
1,4-Dichlorobenzene	ND	18		ug/m3	20	9/20/2005
1,4-Dioxane	ND	22		ug/m3	20	9/20/2005
2,2,4-trimethylpentane	ND	14		ug/m3	20	9/20/2005
4-ethyltoluene	9.0	15	J	ug/m3	20	9/20/2005
Acetone	ND	14		ug/m3	20	9/20/2005
Allyl chloride	ND	9.5		ug/m3	20	9/20/2005
Benzene	4.5	9.7	J	ug/m3	20	9/20/2005
Benzyl chloride	ND	18		ug/m3	20	9/20/2005
Bromodichloromethane	ND	20		ug/m3	20	9/20/2005
Bromoform	ND	32		ug/m3	20	9/20/2005
Bromomethane	ND	12		ug/m3	20	9/20/2005
Carbon disulfide	ND	9.5		ug/m3	20	9/20/2005
Carbon tetrachloride	ND	19		ug/m3	20	9/20/2005
Chlorobenzene	ND	14		ug/m3	20	9/20/2005
Chloroethane	ND	8.0		ug/m3	20	9/20/2005
Chloroform	8.9	15	J	ug/m3	20	9/20/2005
Chloromethane	ND	6.3		ug/m3	20	9/20/2005
cis-1,2-Dichloroethene	210	12	E	ug/m3	20	9/20/2005
cis-1,3-Dichloropropene	ND	14		ug/m3	20	9/20/2005
Cyclohexane	ND	10		ug/m3	20	9/20/2005
Dibromochloromethane	ND	26		ug/m3	20	9/20/2005
Ethyl acetate	ND	18		ug/m3	20	9/20/2005
Ethylbenzene	15	13		ug/m3	20	9/20/2005
Freon 11	ND	17		ug/m3	20	9/20/2005
Freon 113	11	23	J	ug/m3	20	9/20/2005
Freon 114	ND	21		ug/m3	20	9/20/2005
Freon 12	ND	15		ug/m3	20	9/20/2005
Heptane	ND	12		ug/m3	20	9/20/2005
Hexachloro-1,3-butadiene	ND	33		ug/m3	20	9/20/2005
Hexane	ND	11		ug/m3	20	9/20/2005
Isopropyl alcohol	ND	7.5		ug/m3	20	9/20/2005
m-Xylene	32	13		ug/m3	20	9/20/2005
Methyl Butyl Ketone	ND	25		ug/m3	20	9/20/2005
Methyl Ethyl Ketone	ND	18		ug/m3	20	9/20/2005
Methyl Isobutyl Ketone	ND	25		ug/m3	20	9/20/2005
Methyl tert-butyl ether	ND	11		ug/m3	20	9/20/2005
Methylene chloride	ND	11		ug/m3	20	9/20/2005
o-Xylene	15	13		ug/m3	20	9/20/2005
p-Xylene	12	13	J	ug/m3	20	9/20/2005
Propylene	ND	5.2		ug/m3	20	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
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- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
Styrene	ND	13		ug/m3	20	9/20/2005
Tetrachloroethylene	18000	21	E	ug/m3	20	9/20/2005
Tetrahydrofuran	ND	9.0		ug/m3	20	9/20/2005
Toluene	450	11	E	ug/m3	20	9/20/2005
trans-1,2-Dichloroethene	23	12		ug/m3	20	9/20/2005
trans-1,3-Dichloropropene	ND	14		ug/m3	20	9/20/2005
Trichloroethene	860	16	E	ug/m3	20	9/20/2005
Vinyl acetate	ND	11		ug/m3	20	9/20/2005
Vinyl Bromide	ND	13		ug/m3	20	9/20/2005
Vinyl chloride	ND	7.8		ug/m3	20	9/20/2005

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument. See Method TO-15 for final result

* Due to the high concentration of the target analyte, the sample was analyzed at a 20x dilution.

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 1
Lab Order:	C0509015	**Tag Number:**	196, 53
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/20/2005
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/20/2005
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/20/2005
1,2,4-Trimethylbenzene	ND	15.0		ug/m3	20	9/20/2005
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/20/2005
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/20/2005
1,3,5-Trimethylbenzene	7.25	0.750		ug/m3	1	9/20/2005
1,3-butadiene	ND	0.337		ug/m3	1	9/20/2005
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dioxane	ND	1.10		ug/m3	1	9/20/2005
2,2,4-trimethylpentane	2.90	0.712		ug/m3	1	9/20/2005
4-ethyltoluene	3.50	0.750		ug/m3	1	9/20/2005
Acetone	ND	0.724		ug/m3	1	9/20/2005
Allyl chloride	ND	0.477		ug/m3	1	9/20/2005
Benzene	3.54	0.487		ug/m3	1	9/20/2005
Benzyl chloride	ND	0.877		ug/m3	1	9/20/2005
Bromodichloromethane	ND	1.02		ug/m3	1	9/20/2005
Bromoform	ND	1.58		ug/m3	1	9/20/2005
Bromomethane	ND	0.592		ug/m3	1	9/20/2005
Carbon disulfide	ND	0.475		ug/m3	1	9/20/2005
Carbon tetrachloride	0.640	0.959	J	ug/m3	1	9/20/2005
Chlorobenzene	ND	0.702		ug/m3	1	9/20/2005
Chloroethane	ND	0.402		ug/m3	1	9/20/2005
Chloroform	0.943	0.744		ug/m3	1	9/20/2005
Chloromethane	ND	0.315		ug/m3	1	9/20/2005
cis-1,2-Dichloroethene	13.7	12.1		ug/m3	20	9/20/2005
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Cyclohexane	4.13	0.525		ug/m3	1	9/20/2005
Dibromochloromethane	ND	1.30		ug/m3	1	9/20/2005
Ethyl acetate	ND	0.916		ug/m3	1	9/20/2005
Ethylbenzene	60.9	13.2		ug/m3	20	9/20/2005
Freon 11	1.60	0.857		ug/m3	1	9/20/2005
Freon 113	1.01	1.17	J	ug/m3	1	9/20/2005
Freon 114	ND	1.07		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 1
Lab Order:	C0509015	**Tag Number:**	196, 53
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	2.87	0.754		ug/m3	1	9/20/2005
Heptane	3.17	0.625		ug/m3	1	9/20/2005
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/20/2005
Hexane	5.37	0.537		ug/m3	1	9/20/2005
Isopropyl alcohol	ND	0.375		ug/m3	1	9/20/2005
m-Xylene	201	79.4		ug/m3	120	9/20/2005
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl Ethyl Ketone	5.79	0.899		ug/m3	1	9/20/2005
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/20/2005
Methylene chloride	0.953	0.530		ug/m3	1	9/20/2005
o-Xylene	166	13.2		ug/m3	20	9/20/2005
p-Xylene	122	13.2		ug/m3	20	9/20/2005
Propylene	ND	0.262		ug/m3	1	9/20/2005
Styrene	ND	0.649		ug/m3	1	9/20/2005
Tetrachloroethylene	1110	124		ug/m3	120	9/20/2005
Tetrahydrofuran	ND	0.450		ug/m3	1	9/20/2005
Toluene	41.4	11.5		ug/m3	20	9/20/2005
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Trichloroethene	17.5	4.37		ug/m3	20	9/20/2005
Vinyl acetate	ND	0.537		ug/m3	1	9/20/2005
Vinyl Bromide	ND	0.667		ug/m3	1	9/20/2005
Vinyl chloride	0.753	0.390		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 2
Lab Order:	C0509015	**Tag Number:**	137, 65
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/20/2005
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/20/2005
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/20/2005
1,2,4-Trimethylbenzene	ND	15.0		ug/m3	20	9/20/2005
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/20/2005
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/20/2005
1,3,5-Trimethylbenzene	6.05	0.750		ug/m3	1	9/20/2005
1,3-butadiene	ND	0.337		ug/m3	1	9/20/2005
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dioxane	ND	1.10		ug/m3	1	9/20/2005
2,2,4-trimethylpentane	2.75	0.712		ug/m3	1	9/20/2005
4-ethyltoluene	3.30	0.750		ug/m3	1	9/20/2005
Acetone	ND	0.724		ug/m3	1	9/20/2005
Allyl chloride	ND	0.477		ug/m3	1	9/20/2005
Benzene	3.86	0.487		ug/m3	1	9/20/2005
Benzyl chloride	ND	0.877		ug/m3	1	9/20/2005
Bromodichloromethane	ND	1.02		ug/m3	1	9/20/2005
Bromoform	ND	1.58		ug/m3	1	9/20/2005
Bromomethane	ND	0.592		ug/m3	1	9/20/2005
Carbon disulfide	ND	0.475		ug/m3	1	9/20/2005
Carbon tetrachloride	0.640	0.959	J	ug/m3	1	9/20/2005
Chlorobenzene	ND	0.702		ug/m3	1	9/20/2005
Chloroethane	ND	0.402		ug/m3	1	9/20/2005
Chloroform	1.04	0.744		ug/m3	1	9/20/2005
Chloromethane	ND	0.315		ug/m3	1	9/20/2005
cis-1,2-Dichloroethene	12.1	12.1		ug/m3	20	9/20/2005
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Cyclohexane	3.78	0.525		ug/m3	1	9/20/2005
Dibromochloromethane	ND	1.30		ug/m3	1	9/20/2005
Ethyl acetate	ND	0.916		ug/m3	1	9/20/2005
Ethylbenzene	63.6	13.2		ug/m3	20	9/20/2005
Freon 11	1.60	0.857		ug/m3	1	9/20/2005
Freon 113	1.09	1.17	J	ug/m3	1	9/20/2005
Freon 114	ND	1.07		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 2
Lab Order:	C0509015	**Tag Number:**	137, 65
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	3.07	0.754		ug/m3	1	9/20/2005
Heptane	3.21	0.625		ug/m3	1	9/20/2005
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/20/2005
Hexane	5.12	0.537		ug/m3	1	9/20/2005
Isopropyl alcohol	ND	0.375		ug/m3	1	9/20/2005
m-Xylene	122	79.4		ug/m3	120	9/20/2005
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl Ethyl Ketone	5.94	0.899		ug/m3	1	9/20/2005
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/20/2005
Methylene chloride	0.636	0.530		ug/m3	1	9/20/2005
o-Xylene	177	13.2		ug/m3	20	9/20/2005
p-Xylene	109	13.2		ug/m3	20	9/20/2005
Propylene	ND	0.262		ug/m3	1	9/20/2005
Styrene	ND	0.649		ug/m3	1	9/20/2005
Tetrachloroethylene	629	124		ug/m3	120	9/20/2005
Tetrahydrofuran	ND	0.450		ug/m3	1	9/20/2005
Toluene	42.1	11.5		ug/m3	20	9/20/2005
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Trichloroethene	16.4	4.37		ug/m3	20	9/20/2005
Vinyl acetate	ND	0.537		ug/m3	1	9/20/2005
Vinyl Bromide	ND	0.667		ug/m3	1	9/20/2005
Vinyl chloride	0.779	0.390		ug/m3	1	9/20/2005

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Outdoor
Lab Order:	C0509015	**Tag Number:**	225, 179
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/20/2005
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/20/2005
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/20/2005
1,2,4-Trimethylbenzene	7.14	0.749		ug/m3	1	9/20/2005
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/20/2005
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/20/2005
1,3,5-Trimethylbenzene	2.35	0.750		ug/m3	1	9/20/2005
1,3-butadiene	ND	0.337		ug/m3	1	9/20/2005
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dioxane	ND	1.10		ug/m3	1	9/20/2005
2,2,4-trimethylpentane	4.94	0.712		ug/m3	1	9/20/2005
4-ethyltoluene	2.55	0.750		ug/m3	1	9/20/2005
Acetone	ND	0.724		ug/m3	1	9/20/2005
Allyl chloride	ND	0.477		ug/m3	1	9/20/2005
Benzene	5.29	0.487		ug/m3	1	9/20/2005
Benzyl chloride	ND	0.877		ug/m3	1	9/20/2005
Bromodichloromethane	ND	1.02		ug/m3	1	9/20/2005
Bromoform	ND	1.58		ug/m3	1	9/20/2005
Bromomethane	ND	0.592		ug/m3	1	9/20/2005
Carbon disulfide	ND	0.475		ug/m3	1	9/20/2005
Carbon tetrachloride	ND	0.959		ug/m3	1	9/20/2005
Chlorobenzene	ND	0.702		ug/m3	1	9/20/2005
Chloroethane	ND	0.402		ug/m3	1	9/20/2005
Chloroform	ND	0.744		ug/m3	1	9/20/2005
Chloromethane	ND	0.315		ug/m3	1	9/20/2005
cis-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/20/2005
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Cyclohexane	3.29	0.525		ug/m3	1	9/20/2005
Dibromochloromethane	ND	1.30		ug/m3	1	9/20/2005
Ethyl acetate	ND	0.916		ug/m3	1	9/20/2005
Ethylbenzene	4.99	0.662		ug/m3	1	9/20/2005
Freon 11	1.60	0.857		ug/m3	1	9/20/2005
Freon 113	1.09	1.17	J	ug/m3	1	9/20/2005
Freon 114	ND	1.07		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Outdoor
Lab Order:	C0509015	**Tag Number:**	225, 179
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	2.92	0.754		ug/m3	1	9/20/2005
Heptane	2.96	0.625		ug/m3	1	9/20/2005
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/20/2005
Hexane	7.63	0.537		ug/m3	1	9/20/2005
Isopropyl alcohol	ND	0.375		ug/m3	1	9/20/2005
m-Xylene	8.39	6.62		ug/m3	10	9/20/2005
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl Ethyl Ketone	ND	0.899		ug/m3	1	9/20/2005
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/20/2005
Methylene chloride	0.918	0.530		ug/m3	1	9/20/2005
o-Xylene	6.44	0.662		ug/m3	1	9/20/2005
p-Xylene	5.03	0.662		ug/m3	1	9/20/2005
Propylene	ND	0.262		ug/m3	1	9/20/2005
Styrene	ND	0.649		ug/m3	1	9/20/2005
Tetrachloroethylene	4.27	1.03		ug/m3	1	9/20/2005
Tetrahydrofuran	ND	0.450		ug/m3	1	9/20/2005
Toluene	22.2	5.75		ug/m3	10	9/20/2005
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Trichloroethene	0.492	0.218		ug/m3	1	9/20/2005
Vinyl acetate	ND	0.537		ug/m3	1	9/20/2005
Vinyl Bromide	ND	0.667		ug/m3	1	9/20/2005
Vinyl chloride	ND	0.390		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

APPENDIX 5
ASD Work Plan

mitigation tech *radon correction specialists*

January 24, 2006

Mr. Peter Morton
Passero Associates
100 Liberty Pole Way
Rochester, NY 14604
Via fax: 585-325-1691

Re: Sub-slab ventilation -- Speedy's Cleaners, 3130 Monroe Ave., Rochester NY 14618

Sub-slab air communication test report
Proposed Work Plan r3

Dear Peter:

Based on our discussions and site survey, following is our proposed work plan to provide mitigation of potential soil vapor intrusion by active sub-slab depressurization. This follows typical design parameters common in radon mitigation applications and in comparable successful environmental applications. System configuration is based on acquired data and is subject to modification based on further field observations and measurements. All work will comply with EPA Radon mitigation standard 402-R93-078 and with Section 4 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated February, 2005.

Background

On December 28, 2006, as part of a directed site study, we performed a series of sub-slab air communication tests in the western portion of this location to determine the general appropriateness of the technique known as sub-slab ventilation (and sub-slab depressurization) to the mitigation of certain environmental contaminants, and to predict appropriate suction point configuration and the performance requirements of vacuum fans. These tests were done under the general supervision of Mr. Peter Morton of Passero Associates.

We drilled a series of holes into the slab at potential typical system suction point locations. We drilled enough holes to gain a working understanding of the sub-slab characteristics of each particular section. We applied a known vacuum to each point and made differential pressure measurements at various neighboring points to estimate, by interpolation or extrapolation, the expected radius of influence for each point. The specific objective of this procedure is to specify a design that will provide a minimum air pressure differential of .002 water column inches to all designated areas of the sub-slab by installing a series of efficient independent sub-slab vapor extraction systems of the type commonly used in the radon mitigation industry. We have repaired all test holes with urethane caulk (MSDS available) applied over a closed cell backer rod.

Test results (see attachment for point locations)

Vacuum pt	Test point	Reading in wci
1	2	.002
1	3	.004
1	5	.000
2	4	.003
2	5	.000
3	4	.000
3	5	.000
5	6	.011
5	9	.001
6	7	.011
6	9	.003
7	8	.003
7	9	.003
8	9	.011
9	10	.001

General Findings

Our general finding is that the above referenced technique is viable. Different slab sections show material differences in sub-slab air communication, so area alone is not a sufficient predictor of suction point requirements. Slab seams and other potential vapor entry routes will require sealing. Air communication is restricted in the rear northwest section. Air communication is sufficient to allow flexibility in suction point location so that the impact on current use of occupied space can be minimized with cooperative field design decisions.

Recommendations

As a comprehensive approach to provide soil vapor influence to substantially all areas of the sub-slab, we recommend the installation of a high performance radon-type soil vapor extract fan, strategically placed at the exterior rear of the building. The fan will connect to a longitudinal trunk line, manifolded to several suction points, some of which may constitute minor obstacles to the full use of the interior space. Suction points and supporting pipe runs will be installed to the extent possible to accommodate building interior design and function.

Proposed Work Plan

This work plan shall comply with Section 4 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated February, 2005.

Furnish and Install:

- Professional design and supervision
- Installation per system description detailed below
- Installation highlights as follows:
- (1) RADONAWAY GP-501 high performance centrifugal in-line fan (150w continuous duty) to provide sub-slab ventilation via ceiling located horizontal trunk line (3" schedule 40 pvc pipe) to sidewall exhaust at rear, corresponding to specified suction points
- Suction points as follows: connection via 2" pvc to excavated cavities in sub-slab, with urethane seal, (6) total, manifolded and with inline adjustment valves as required; all locations approximately per attached drawing and pending field approval by client and client's consultants and as follows: 2) trenches excavated for plumbing modifications (customer to install layer of washed stone in trenches) (1) central east/west partition wall, (1) rear utility area, (2) west exterior wall to interior of footing
- Vacuum indicator on vertical pipe run
- Customer to provide appropriate power in vicinity of each fan
- Urethane sealant at slab joints and penetrations
- Vacuum testing to measure effective pressure field
- At completion, measure pressure differentials and document; label components and provide system description and operational instructions
- Furnish maintenance and periodic inspection plan
- Two year warranty; labor and installed components; although system design is based on achieving a sufficient pressure differential, no specific warranty of effectiveness --effectiveness shall be determined by continuing field measurement provided by others; additional or modified suction points or fans may be required by others at other's expense

System Description

The purpose of the system is to maintain a depressurized zone below the designated portion of the sub-slab compared to the ambient air pressure above the slab. The system shall be of the type typically used in radon mitigation, shall be designed and constructed in accordance with the standards detailed in the following documents: US Environmental Protection Agency (EPA) 402-R-93-078, Radon Mitigation Standards; NYS DEC document, Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Actual configurations of the suction holes and pipe runs will be determined by the Contractor in the field.

System Design

1.1 The sub slab depressurization system shall be designed and installed as permanent, integral addition to the buildings.

1.2 The sub slab depressurization unit shall be designed to avoid the creation of other health, safety, or environmental hazards to building occupants, such as back drafting of natural draft combustion appliances.

1.3 The sub slab depressurization unit shall be designed to maximize soil vapor reduction above the basement slab and in consideration of the need to minimize excess energy usage, to avoid compromising moisture and temperature controls and other comfort features, and to minimize noise.

1.4 The sub slab depressurization unit and its components shall be designed to comply with the laws, ordinances, codes, and regulations of relevant jurisdictional authorities, including applicable mechanical, electrical, building, plumbing, energy, and fire prevention codes.

System Installation

General Requirements

2.1.1 All components of the sub slab depressurization unit shall be installed in compliance with the applicable mechanical, electrical, building, plumbing, energy and fire prevention codes, standards, and regulations of the local jurisdiction.

2.1.2 The Supervision Engineering Firm shall obtain all required local licenses and permits, and display them in the work areas as required by local ordinances.

2.1.3 Where portions of structural framing material must be removed to accommodate vent pipes, material removed shall be no greater than that permitted for plumbing installations by applicable building or plumbing codes.

2.1.4 Where installation of the sub slab depressurization unit requires pipes or ducts to penetrate a firewall or other fire resistance rated wall or floor, penetrations shall be protected in accordance with applicable building, mechanical, fire, and electrical codes.

Vent Pipe Installation Requirements

2.2.1 All joints and connections in sub slab depressurization unit using plastic vent pipes shall be permanently sealed with adhesives as specified by the manufacturer of the pipe material used. Joints or connections in other vent pipe materials shall be made airtight.

2.2.2 Vent pipes shall be fastened to the structure of the building with hangers, strapping, or other supports that will adequately secure the vent material. Existing plumbing pipes, ducts, or mechanical equipment shall not be used to support or secure a vent pipe.

2.2.3 Supports for vent pipes shall be installed at least every 6 feet on horizontal runs. Vertical runs shall be secured either above or below the points of penetration through floors, ceilings, and roofs, or at least every 8 feet on runs that do not penetrate floors, ceilings, or roofs.

2.2.4 To prevent the blockage of air flow into the bottom of vent pipes, these pipes shall be supported or secured in a permanent manner that prevents their downward movement to the bottom of suction pits or sump pits, or into the soil beneath an aggregate layer under a slab.

2.2.5 Vent pipes shall be installed in a configuration that ensures that any rain water or condensation within the pipes drains downward into the ground beneath the slab.

2.2.6 Vent pipes shall not block access to any areas requiring maintenance or inspection. Vents shall not be installed in front of or interfere with any light, opening, door, window or equipment access area required by code. If vent pipes are installed in sump pits, the system shall be designed with removable or flexible couplings to facilitate removal of the sump pit cover for sump pump maintenance.

2.2.7 To prevent re-entrainment of vapors, the point of discharge from vents of fan-powered soil depressurization and block wall depressurization systems shall meet all of the following requirements: (1) be above the eave of the roof, (2) be ten feet or more above ground level, (3) be ten feet or more from any window, door, or other opening into conditioned spaces of the structure that is less than two feet below the exhaust point, and (4) be ten feet or more from any opening into an adjacent building. The total required distance (ten feet) from the point of discharge to openings in the structure may be measured either directly between the two points or be the sum of measurements made around intervening obstacles. Whenever possible, the exhaust point should be positioned above the highest eave of the building and as close to the roof ridge line.

Vent Fan Installation Requirements

2.3.1 Vent fans used in the subslab depressurization unit shall be designed or otherwise sealed to reduce the potential for leakage of soil gas from the fan housing.

2.3.2 The vent fan system shall be equipped with a vacuum indicator mounted in an easily visible location.

2.3.3 Vent fans shall be installed on the exterior of the building or in the interior above the conditioned air space.

2.3.5 Vent fans shall be installed in a configuration that avoids a condensation buildup in the fan housing. Fans should be installed in vertical runs of the vent pipe.

2.3.6 Vent fans mounted on the exterior of buildings shall be rated for outdoor use or installed in a water tight protective housing.

2.3.7 Vent fans shall be mounted and secured in a manner that minimizes transfer of vibration to the structural framing of the building.

2.3.8 To facilitate maintenance and future replacement, vent fans shall be installed in the vent pipe using removable couplings or flexible connections that can be tightly secured to both the fan and the vent pipe.

Suction Pit Requirement for Subslab Depressurization Systems

2.4.1 To provide optimum pressure field extension of the sub slab communication zone, adequate material shall be excavated from the area immediately below the slab penetration point of system vent pipes. The Contractor will make a determination on the adequate amount of material to be removed based on field conditions and experience.

2.5.1 Sump pits that permit entry of soil-gas or that would allow conditioned air to be drawn into a sub-slab depressurization system shall be covered and sealed. The covers on sumps that previously provided protection or relief from surface water collection shall be fitted with a water or mechanically trapped drain. Water traps should be fitted with an automatic supply of priming water.

2.5.2 Openings around vent pipe penetrations of the slab and the foundation walls, shall be cleaned, prepared, and sealed in a permanent, airtight manner using compatible caulks or other sealant materials. (See paragraph 3.5.) Openings around other utility penetrations of the slab, walls, or soil-gas retarder shall also be sealed.

2.5.3 Openings, perimeter channel drains, or cracks that exist where the slab meets the foundation wall (floor-wall joint), shall be sealed with urethane caulk or equivalent material. When the opening or channel is greater than 0.50 inches in width, a foam backer rod or other comparable filler material shall be inserted in the channel before application of the sealant. This sealing technique shall be done in a manner that retains the channel feature as a water control system. Other openings or cracks in slabs or at expansion or control joints should also be sealed. Openings or cracks that are determined to be inaccessible or beyond the ability of the Contractor to seal shall be disclosed to the client and included in the documentation.

Electrical Requirements

2.6.1 Wiring for the subslab depressurization unit shall conform to provisions of the National Electric Code and any additional local regulations.

2.6.2 Wiring may not be located in or chased through the mitigation installation ducting or any other heating or cooling duct work.

2.6.3 Mitigation fans installed on the exterior of buildings shall be hardwired into an electrical circuit. Plugged fans shall not be used outdoors.

2.6.4 If the rated electricity requirement of a sub slab depressurization unit fan exceeds 50 percent of the circuit capacity into which it will be connected, or if the total connected load on the circuit (including the vent fan) exceeds 80 percent of the circuit's rated capacity, a separate, dedicated circuit shall be installed to power the fan.

2.6.5 An electrical disconnect switch or a circuit breaker shall be installed in sub slab depressurization unit fan circuits to permit deactivation of the fan for maintenance or repair by the building owner or servicing Contractor (Disconnect switches are not required with plugged fans).

Materials

3.1 All mitigation system electrical components shall be U.L. listed or of equivalent specifications.

3.2 All plastic vent pipes in mitigation systems shall be made of Schedule 40 PVC.

3.3 Vent pipe fittings in a mitigation system shall be of the same material as the vent pipes. (See paragraph 2.3.7 for exception when installing vent fans, and paragraph 2.2.7 for exception when installing vent pipes in sump pit covers.)

3.4 Cleaning solvents and adhesives used to join plastic pipes and fittings shall be as recommended by manufacturers for use with the type of pipe material used in the mitigation system.

3.5 When sealing cracks in slabs and other small openings around penetrations of the slab and foundation walls, caulks and sealants designed for such application shall be used.

3.6 When sealing holes for plumbing rough-in or other large openings in slabs and foundation walls that are below the ground surface, non-shrink mortar, grouts, expanding foam, or similar materials designed for such application shall be used.

3.7 Sump pit covers shall be made of durable plastic or other rigid material and designed to permit airtight sealing. To permit easy removal for sump pump servicing, the cover shall be sealed using silicone or other nonpermanent type caulking materials or an airtight gasket.

3.8 Penetrations of sump covers to accommodate electrical wiring, water ejection pipes, or vent pipes shall be designed to permit airtight sealing around penetrations, using caulk or grommets. Sump covers that permit observation of conditions in the sump pit are recommended.

3.9 A sub membrane depressurization system made be installed in crawlspaces and on soil exposed basements and shall be a minimum of 6 mils (3 mils cross-laminated) polyethylene or equivalent flexible material. Heavier gauge sheeting should be used when areas are used for storage, or frequent entry is required for maintenance of utilities.

Post-Mitigation Testing

4.1 After installation, the Contractor shall reexamine and verify the integrity of the fan mounting seals and all joints in the interior vent piping.

4.2 After installation, the Contractor shall measure suctions or flows in system piping or ducting to assure that the system is operating as designed. A test of pressure field extension shall be performed using established test points. The Contractor shall test the vacuum achieved at each test hole by using a digital manometer, document the findings and prepare a report for the client.

Worker Health and Safety

5.1 Contractors shall comply with all OSHA, state and local standards or regulations relating to worker safety and occupational vapor exposure.

5.2.1 In addition to the OSHA and NIOSH standards, the following requirements that are specific or uniquely applicable for the safety and protection of vapor mitigation workers shall be met:

5.2.2 The Contractor shall have a worker protection plan on file that is available to all employees and is approved by any state or local regulating agencies that require such a plan.

5.2.3 The Contractor shall ensure that appropriate safety equipment such as hard hats, face shields, ear plugs, steel-toe boots and protective gloves are available on the job site during cutting, drilling, grinding, polishing, demolishing or other activity associated with vapor mitigation projects.

5.2.4 All electrical equipment used during mitigation projects shall be properly grounded. Circuits used as a power source should be protected by Ground-fault Circuit Interrupters (GFCI).

5.2.5 When work is required at elevations above the ground or floor, the Contractor shall ensure that ladders or scaffolding are safely installed and operated.

5.2.6 The Contractor shall ensure that respiratory protection conforms with the requirements in the

NIOSH Guide to Industrial Respiratory Protection.

5.2.7 Where combustible materials exist in the specific area of the building where vapor mitigation work is to be conducted, and the Contractor is creating temperatures high enough to induce a flame, the Contractor shall ensure that fire extinguishers suitable for type A, B, and C fires are available in the immediate work area.

5.2.8 In any planned work area where the Contractor or Consultant believes friable asbestos may exist and be disturbed, vapor mitigation work shall not be conducted until a determination is made by a properly trained or accredited person that such work will be undertaken in a manner which complies with applicable asbestos regulations.

5.2.10 When mitigation work requires the use of sealants, adhesives, paints, or other substances that may be hazardous to health, Contractors shall provide employees with the applicable Material Safety Data Sheets (MSDS) and explain the required safety procedures.

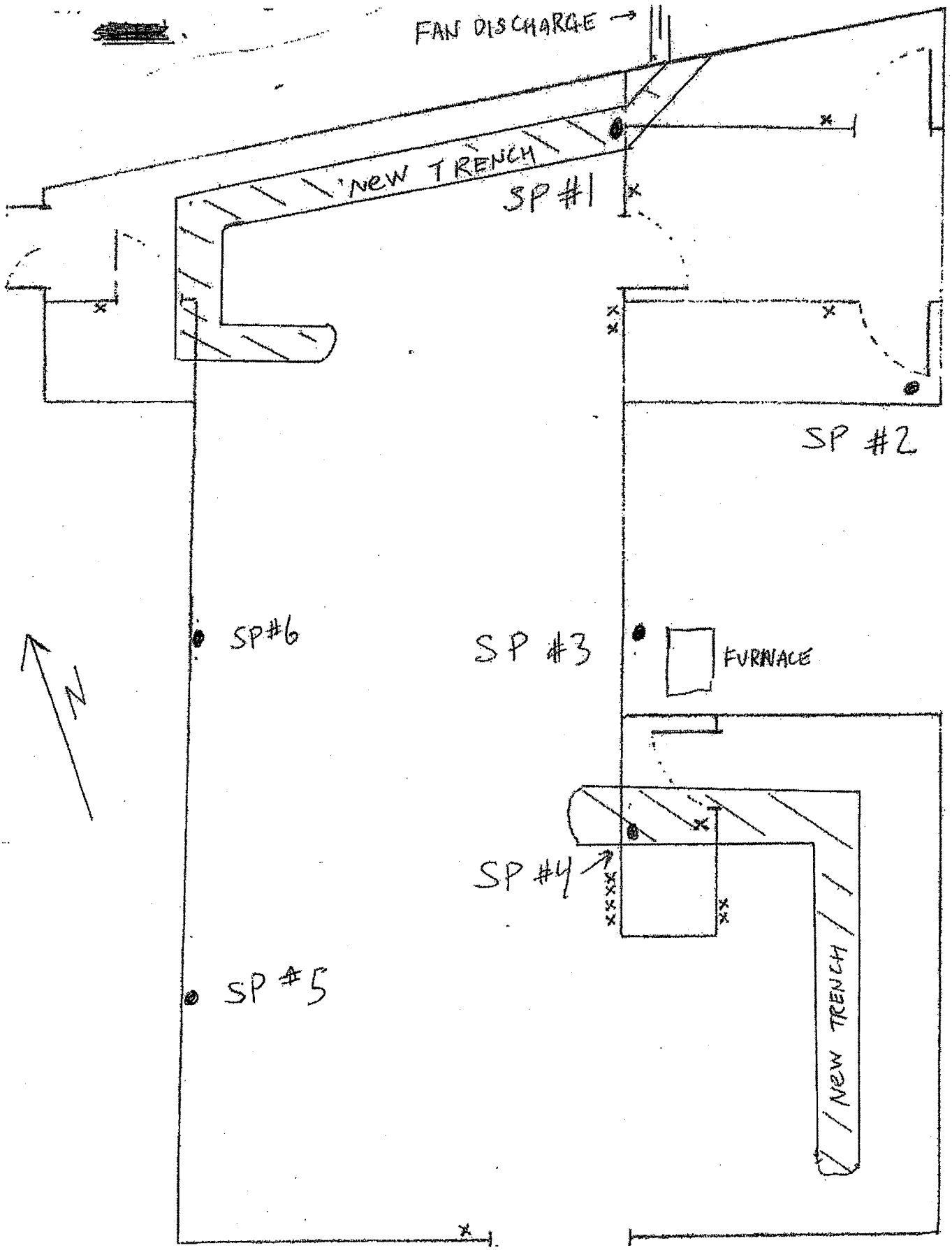
End of proposed work plan

If you have any questions, please contact me.

Thank you.

MITIGATION TECH

Nicholas E. Mouganis EPA listing # 15415-I ; NEHA ID# 100722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NEW TRENCH
SP #1
SP #2
SP #6
SP #3
FURNACE
N
SP #4
SP #5
NEW TRENCH

mitigation tech *radon correction specialists*

January 31, 2006

Mr. Greg MacLean
NYS DEC
6274 East-Avon Lima Rd
Avon, NY 14414

Re: Sub-slab ventilation -- Speedy's Cleaners, 3130 Monroe Ave., Rochester NY 14618

Sub-slab air communication test report – point locations
Supplement to Proposed Work Plan

Dear Greg:

Attached please find the sketch showing the original test point locations and proposed suction point locations for this site. The air communication test was done before the creation of the trenches. The trenches include a 4" layer of highly permeable washed stone and will enhance system performance.

The intent of the design here is to provide coverage for the entire building. Coverage for the western section of the building (currently being remodeled) is verified by test data. At the request of the owners to avoid possibly unnecessary disruption of the tenant space in the eastern section, we have extrapolated from the data for this design proposal. An assumption in this design is a consistent radius of influence from suction points adjacent to the eastern section. Our plan is to verify full coverage by vacuum testing after the completion of the proposed system installation.

In the event that post-installation full coverage cannot be verified, the owners have agreed to install the additional suction points in the eastern section then determined to be necessary. We have included provisions in the base design to facilitate this.

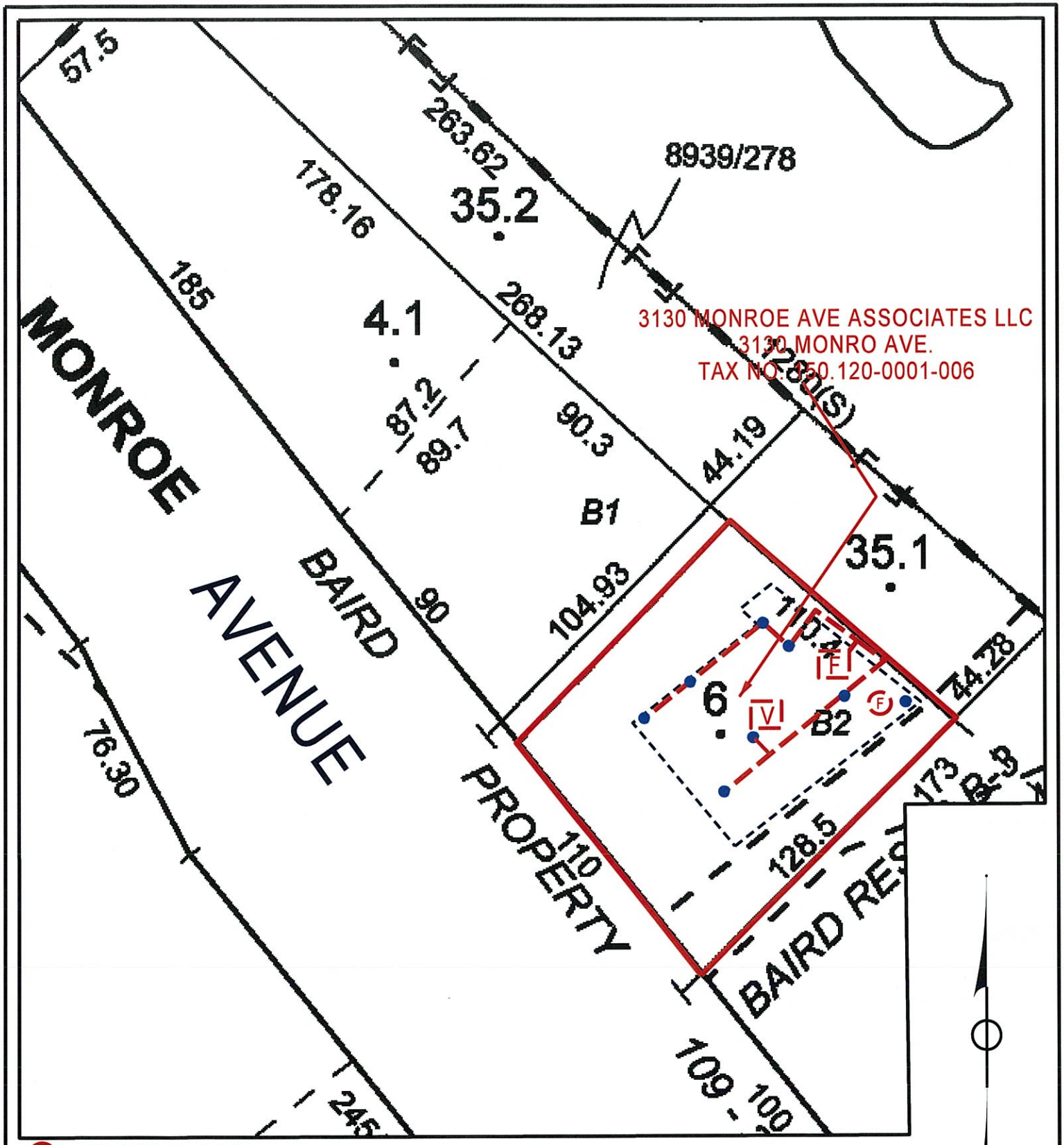
If you have any questions, please contact me.

Thank you.

Nicholas E. Mouganis EPA listing # 15415-I ; NEHA ID# 100722

C: Peter Morton, Passero Associates

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 * OFFICE/FAX 585-637-7430



(F) = SIDEWALL FAN

|V| = HEAT RECOVERY VENTILATOR

|F| = ROOF FAN

● = SUCTION CAVITY

TITLE:

VAPOR MITIGATON AS BUILT DIAGRAM

3130 MONROE AVENUE
TOWN OF PITTSFORD, COUNTY OF MONROE
STATE OF NEW YORK

MITIGATION TECH
Radon Correction Specialists
55 SHUMWAY ROAD, BROCKPORT
NEW YORK 14420
TL: (585) 637-7430

DATE
3/13/2008

SCALE
NTS

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, New York 14414-9519
Phone: (585) 226-5353 • **FAX:** (585) 226-8696
Website: www.dec.state.ny.us

Denise M. Sheehan
Commissioner

February 24, 2006

Ms. Angela Demerle, Esq.
Harter, Secrest & Emery, LLP
Twelve Fountain Plaza
Buffalo, New York 14202

Re: Brownfield Cleanup Program - Time Critical IRM Work Plan
Speedy's Cleaners (C828109)
3130 Monroe Avenue
Pittsford (T), Monroe (C)

Dear Ms. Demerle:

The New York State Department of Environmental Conservation (NYSDEC), in consultation with the New York State Department of Health (NYSDOH) and Monroe County Health Department (MCHD), has reviewed the January 25, 2006 Time Critical Interim Remedial Measure (IRM) Work Plan and January 31, 2006 supplemental letter for the subject site. Based on our review, the Department hereby approves the IRM work plan with the following conditions:

1. Depressurization of the entire slab (including the eastern portion of the building) needs to be demonstrated and documented following installation of the system. In the event this can not be demonstrated, appropriate system modifications need to be implemented promptly to achieve depressurization of the entire slab.

2. Post-mitigation indoor air sampling is required in both sides of the building once the system is operating. This sampling should be conducted during this heating season, but no sooner than 30 days after the system is in operation. Sampling is to be performed in accordance with the NYSDOH *Indoor Air Sampling & Analysis Guidance (February 1, 2005)*, including collection of an outdoor ambient sample.

3. An Operation Maintenance and Monitoring (OM&M) Plan needs to be submitted for review and approval within 30 days following system startup. The OM&M plan should be prepared in accordance with Section 4.4 of the NYSDOH *Guidance for Evaluation of Soil Vapor Intrusion in the State of New York*.

4. Subsequent to system installation, the extent of the soil gas plume at the site needs to be characterized to determine if there are potential threats to adjacent buildings. Please provide

a supplement to the RI Work Plan to perform this work within 60 days following system installation. Soil gas sampling is to be performed in accordance with Section 2.7.1 of the NYSDOH *Guidance for Evaluation of Soil Vapor Intrusion in the State of New York*

5. Please ensure that all existing and future tenants of the building are aware of all indoor air data and plans for mitigation as well as routine OM&M of the system..

This conditional approval letter is to be attached to, and become part of, the final approved IRM Work Plan. Copies of the final approved IRM work plan, including the January 31, 2006 supplemental letter and this conditional approval letter, need to be made available at the project document repository prior to implementation of the fieldwork. Please notify this office a minimum of one week prior to the start of fieldwork.

If you should have any questions regarding this letter or I can be of further assistance, please contact me at (585) 226-5356.

Sincerely,

Gregory B. MacLean, P.E.
Environmental Engineer 2
Division of Environmental Remediation

ec: Bart Putzig, P.E., NYSDEC
Ed Belmore, P.E., NYSDEC
James Charles, NYSDEC

cc: Tamara Girard, NYSDOH
Mark VanValkenburg. NYSDOH
Joseph Albert, MCHD
Chris Williams, 3130 Monroe Avenue Associates, LLC

BROWNFIELD CLEANUP PROGRAM (BCP)

TIME CRITICAL
INTERIM REMEDIAL MEASURE (IRM)
WORK PLAN

ECL Article 27/Title 14

SPEEDY'S CLEANERS
3130 Monroe Avenue
Town of Pittsford
Rochester, New York 14618

NYSDEC Site # C828109

Prepared for:
3130 Monroe Avenue Associates, LLC
P.O. Box 499
Pittsford, NY 14534

Prepared by:
Passero Associates
100 Liberty Pole Way
Rochester, NY 14604

January 25, 2006 P.N. 99018.14

DRAFT

TABLE OF CONTENTS

FIGURES

APPENDICES

1.0 INTRODUCTION

This Time Critical Interim Remedial Measure (IRM) is proposed pursuant to the Brownfield Cleanup Program (BCP) Remedial Investigation (RI) at the Speedy's Cleaners facility at 3130 Monroe Avenue in the Town of Pittsford, New York.

1.1 Site Location and Description

The Speedy's Cleaners site is located at 3130 Monroe Avenue in the Town of Pittsford, New York (Figure 1). The Site is an approximately 0.27-acre parcel improved with one building: the west side of the building was operated as Speedy's Cleaners dating back to the 1950s. Speedy's Cleaners operated a dry cleaning operation, and subsequently a drop-off/pick-up location. The adjacent property at the north side of the Site is the Rochester Gas & Electric (RG&E) right-of-way.

1.2 Air Samples

As part of the RI, one sub-slab air sample; two interior air samples (Ambient 1 & 2); and one exterior air sample were collected by Summa canisters for VOC analysis (Figure 2). The samples were collected in 1-liter Summa Canisters for 2 hours with a flow rate calibrated by Centek Laboratories to be < 0.2 liter per minute. The air samples were analyzed by Environmental Protection Agency (EPA) Method TO-15. The results are on the following pages:

TABLE 1 - AIR DATA

Sub-Slab Air Sample

Compound	Result ug/m^3
1,2,4-Trimethylbenzene	14
4-ethyltoluene	6.4
Benzene	33
cis-1,2-Dichloroethene	130
Cyclohexane	42
Ethylbenzene	15
Heptane	26
Hexane	110
m-Xylene	41
o-Xylene	21
p-Xylene	20
Tetrachloroethene	***8300***
Toluene	330
Trans-1,2-Dichloroethene	16
Trichloroethene	460

TABLE 1 (Cont'd)

Ambient 1

Compound	Result ug/m^3
1,3,5-Trimethylbenzene	7.25
2,2,4-trimethylpentane	2.90
4-ethyltoluene	3.50
Benzene	3.54
Carbon tetrachloride	0.640
Chloroform	0.943
cis-1,2-Dichloroethene	13.7
Cyclohexane	4.13
Ethylbenzene	60.9
Freon 11	1.60
Freon 113	1.01

Ambient 1 (Cont'd)

Compound	Result ug/m^3
Freon 12	2.87
Heptane	3.17
Hexane	5.37
m-Xylene	201
Methyl Ethyl Ketone	5.79
o-Xylene	166
p-Xylene	122
Tetrachloroethene	***1110***
Toluene	41.4
Trichloroethene	17.5
Vinyl Chloride	0.753

TABLE 1 (Cont'd)

Ambient 2

Compound	Result ug/m^3
1,3,5-Trimethylbenzene	6.05
2,2,4-trimethylpentane	2.75
4-ethyltoluene	3.30
Benzene	3.86
Carbon tetrachloride	0.640
Chloroform	1.04
cis-1,2-Dichloroethene	12.1
Cyclohexane	3.78
Ethylbenzene	63.6
Freon 11	1.60
Freon 113	1.09

Ambient 2 (Cont'd)

Compound	Result ug/m^3
Freon 12	3.07
Heptane	3.21
Hexane	5.12
m-Xylene	122
Methyl Ethyl Ketone	5.94
Methylene Chloride	0.636
o-Xylene	177
p-Xylene	109
Tetrachloroethene	***629***
Toluene	42.1
Trichloroethene	16.4
Vinyl Chloride	0.779

TABLE 1 (Cont'd)

Exterior

Compound	Result ug/m^3
1,2,4-Trimethylbenzene	7.14
1,3,5-Trimethylbenzene	2.35
2,2,4-trimethylpentane	4.94
2,2,4-trimethylpentane	4.94
4-ethyltoluene	2.55
Benzene	5.29
Cyclohexane	3.29
Ethylbenzene	4.99
Freon 11	1.60
Freon 113	1.09

Exterior (Cont'd)

Compound	Result ug/m^3
Freon 12	2.92
Heptane	2.96
Hexane	7.63
m-Xylene	8.39
Methylene Chloride	0.918
o-Xylene	6.44
p-Xylene	5.03
Tetrachloroethene	4.27
Toluene	22.2
Trichloroethene	0.492

Discussion

These air data were generated in September 2005 while Speedy's Cleaners was still a tenant in the building; Speedy's lease expired and they moved out at the end of December 2005. When Passero Associates visited the building on January 12, 2006 to meet with the owners to discuss the installment and placement of a sub-slab depressurization system, an approximately ½-inch diameter hole was noted in the concrete slab in an area that had previously been obscured by Speedy's clothing racks. This hole which acted as a migration pathway for sub-slab vapors to enter the building will be plugged as the west side of the building is being renovated for a future tenant.

As indicated above, an active sub-slab depressurization system (ASD) will be installed as a Time Critical IRM to address the vapor intrusion issue.

1.3 Rational for Time Critical IRM

The PCE detected in the interior air samples indicates potential exposure to building occupants. The May 2004 Draft Brownfield Cleanup Program Guide states that a Time Critical IRM should be performed where conditions resulting in an immediate threat to life, health, property or natural resources exists. The vapor intrusion into the building warrants that a Time Critical IRM be implemented.

2.0 ACTIVE SUB-SLAB DEPRESSURIZATION SYSTEM (ASD)

2.1 Pilot Test

On December 28, 2006, Mitigation Tech performed a series of sub-slab air communication tests in the western portion of the building to predict appropriate suction point configuration and the performance requirements of vacuum fans.

Mitigation Tech drilled a series of holes into the slab to gain a working understanding of the sub-slab characteristics of each particular section. Mitigation Tech's Pilot Test data and Proposed Work Plan are attached.

The pilot test data indicate that an ASD is viable. Slab seams and other potential vapor entry routes will require sealing.

2.2 Proposed ASD System

The east side of the building is occupied and a new tenant is renovating the western space for occupancy in February 2006. A trench has been cut in the slab in the west side of the building for installation of a new plumbing system. Mitigation Tech has requested that the plumbing trenches be backfilled with permeable gravel to facilitate sub-slab vapor movement. They will install horizontal 2-inch diameter PVC well screens in the trenches prior to re-installation of the slab; these pipes will draw vapors from beneath the building for exterior discharge.

2.3 Post Mitigation Testing

After ASD installation, Mitigation Tech will inspect and verify the integrity of the fan mounting seals and all joints in the interior vent piping. They will measure suctions or flows in system piping or ducting to assure that the system is operating as designed. A test of pressure field extension will be performed using established test points. Mitigation Tech will test the vacuum achieved at each test hole by using a digital monometer, document the findings, and report the results. Mitigation Tech's proposed ASD is presented in Appendix 1.

2.4 Worker Health and Safety

In addition to the Speedy's Cleaners BCP Health & Safety Plan, Mitigation Tech will comply with the following H&S parameters:

- Comply with all OSHA, state and local standards or regulations relating to worker safety and occupational vapor exposure;
- Have a worker protection plan on file that is available to all employees and is approved by any state or local regulating agencies that require such a plan;
- Ensure that appropriate safety equipment such as hard hats, face shields, ear plugs, steel-toe boots and protective gloves are available on the job site during cutting, drilling, grinding, polishing, demolishing or other activity associated with vapor mitigation projects;
- All electrical equipment used during mitigation projects shall be properly grounded. Circuits used as a power source should be protected by Ground-fault Circuit Interrupters (GFCI);

- When work is required at elevations above the ground or floor, Mitigation Tech will ensure that ladders or scaffolding are safely installed and operated;

- Mitigation Tech will ensure that respiratory protection conforms with the requirements in the NIOSH Guide to Industrial Respiratory Protection;

- If combustible materials exist in the specific area of the building where vapor mitigation work is to be conducted, and Mitigation Tech is creating temperatures high enough to induce a flame, they will ensure that fire extinguishers suitable for type A, B, and C fires are available in the immediate work area; and

- When using sealants, adhesives, paints, or other substances that may be hazardous to health, Mitigation Tech will provide employees with the applicable Material Safety Data Sheets (MSDS) and explain the required safety procedures.

Gary W. Passero, P.E.
Chairman and CEO

Peter S. Morton, C.P.G.
Certified Professional Geologist

FIGURE 1
Site Map

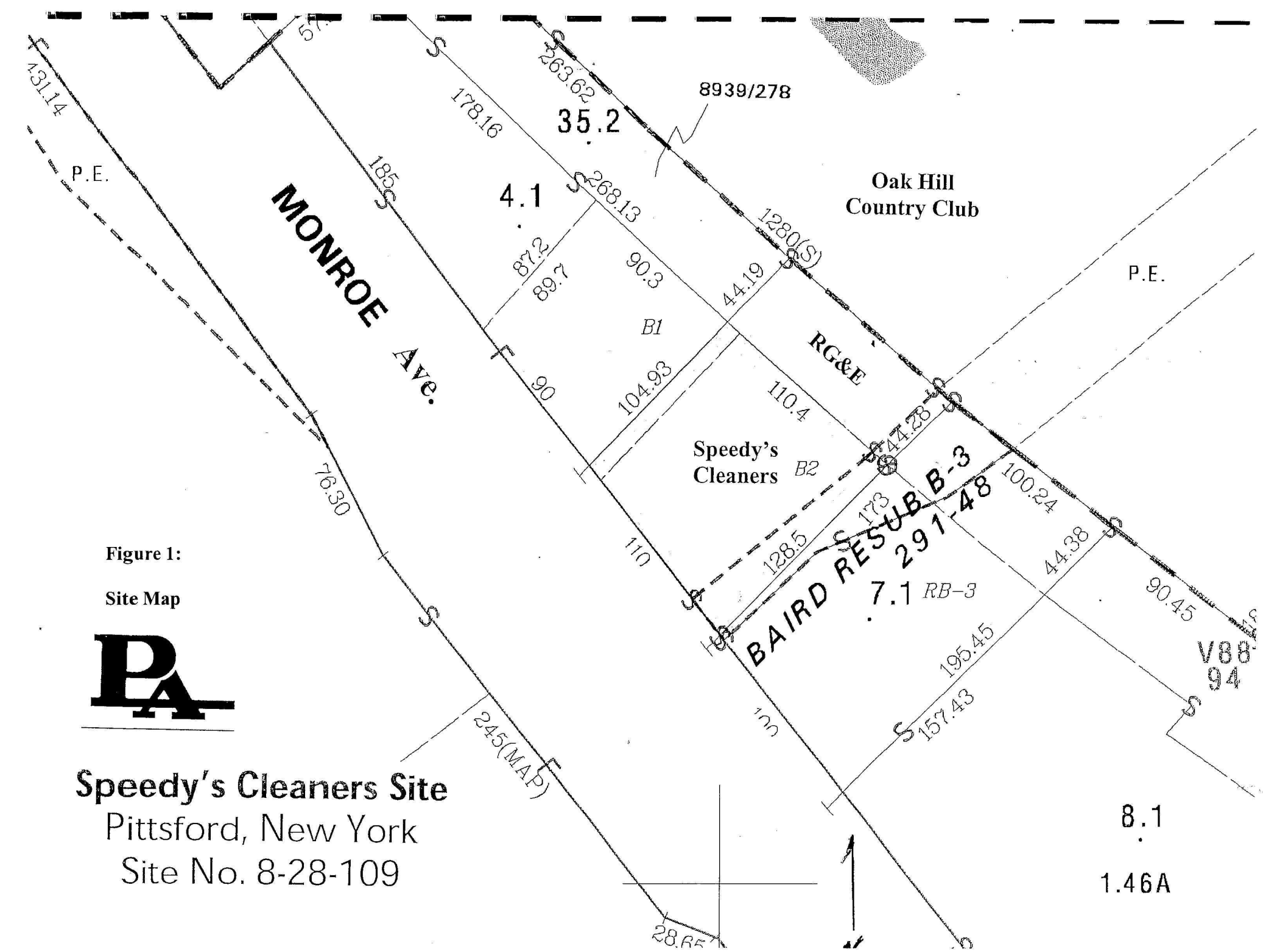


Figure 1:

Site Map

Speedy's Cleaners Site

Pittsford, New York

Site No. 8-28-109

FIGURE 2
Air Sample Locations

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor:

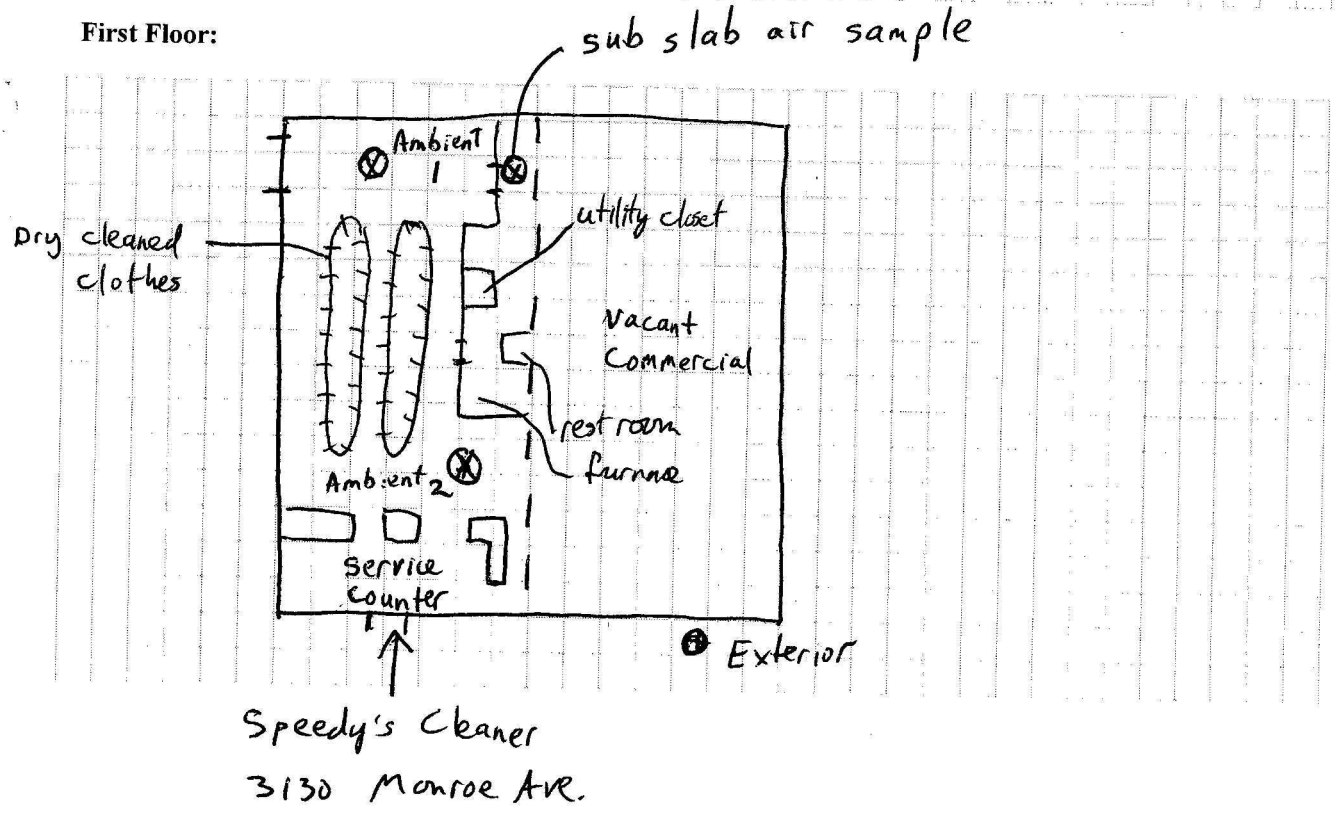


Figure 2:

Air Sample Locations

APPENDIX 1

Mitigation Technologies Work Plan

mitigation tech *radon correction specialists*

January 24, 2006

Mr. Peter Morton
Passero Associates
100 Liberty Pole Way
Rochester, NY 14604
Via fax: 585-325-1691

Re: Sub-slab ventilation -- Speedy's Cleaners, 3130 Monroe Ave., Rochester NY 14618

Sub-slab air communication test report
Proposed Work Plan r3

Dear Peter:

Based on our discussions and site survey, following is our proposed work plan to provide mitigation of potential soil vapor intrusion by active sub-slab depressurization. This follows typical design parameters common in radon mitigation applications and in comparable successful environmental applications. System configuration is based on acquired data and is subject to modification based on further field observations and measurements. All work will comply with EPA Radon mitigation standard 402-R93-078 and with Section 4 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated February, 2005.

Background

On December 28, 2006, as part of a directed site study, we performed a series of sub-slab air communication tests in the western portion of this location to determine the general appropriateness of the technique known as sub-slab ventilation (and sub-slab depressurization) to the mitigation of certain environmental contaminants, and to predict appropriate suction point configuration and the performance requirements of vacuum fans. These tests were done under the general supervision of Mr. Peter Morton of Passero Associates.

We drilled a series of holes into the slab at potential typical system suction point locations. We drilled enough holes to gain a working understanding of the sub-slab characteristics of each particular section. We applied a known vacuum to each point and made differential pressure measurements at various neighboring points to estimate, by interpolation or extrapolation, the expected radius of influence for each point. The specific objective of this procedure is to specify a design that will provide a minimum air pressure differential of .002 water column inches to all designated areas of the sub-slab by installing a series of efficient independent sub-slab vapor extraction systems of the type commonly used in the radon mitigation industry. We have repaired all test holes with urethane caulk (MSDS available) applied over a closed cell backer rod.

Test results (see attachment for point locations)

Vacuum pt	Test point	Reading in wci
1	2	.002
1	3	.004
1	5	.000
2	4	.003
2	5	.000
3	4	.000
3	5	.000
5	6	.011
5	9	.001
6	7	.011
6	9	.003
7	8	.003
7	9	.003
8	9	.011
9	10	.001

General Findings

Our general finding is that the above referenced technique is viable. Different slab sections show material differences in sub-slab air communication, so area alone is not a sufficient predictor of suction point requirements. Slab seams and other potential vapor entry routes will require sealing. Air communication is restricted in the rear northwest section. Air communication is sufficient to allow flexibility in suction point location so that the impact on current use of occupied space can be minimized with cooperative field design decisions.

Recommendations

As a comprehensive approach to provide soil vapor influence to substantially all areas of the sub-slab, we recommend the installation of a high performance radon-type soil vapor extract fan, strategically placed at the exterior rear of the building. The fan will connect to a longitudinal trunk line, manifolded to several suction points, some of which may constitute minor obstacles to the full use of the interior space. Suction points and supporting pipe runs will be installed to the extent possible to accommodate building interior design and function.

Proposed Work Plan

This work plan shall comply with Section 4 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated February, 2005.

Furnish and Install:

- Professional design and supervision
- Installation per system description detailed below
- Installation highlights as follows:
- (1) RADONAWAY GP-501 high performance centrifugal in-line fan (150w continuous duty) to provide sub-slab ventilation via ceiling located horizontal trunk line (3" schedule 40 pvc pipe) to sidewall exhaust at rear, corresponding to specified suction points
- Suction points as follows: connection via 2" pvc to excavated cavities in sub-slab, with urethane seal, (6) total, manifolded and with inline adjustment valves as required; all locations approximately per attached drawing and pending field approval by client and client's consultants and as follows: 2) trenches excavated for plumbing modifications (customer to install layer of washed stone in trenches) (1) central east/west partition wall, (1) rear utility area, (2) west exterior wall to interior of footing
- Vacuum indicator on vertical pipe run
- Customer to provide appropriate power in vicinity of each fan
- Urethane sealant at slab joints and penetrations
- Vacuum testing to measure effective pressure field
- At completion, measure pressure differentials and document; label components and provide system description and operational instructions
- Furnish maintenance and periodic inspection plan
- Two year warranty; labor and installed components; although system design is based on achieving a sufficient pressure differential, no specific warranty of effectiveness –effectiveness shall be determined by continuing field measurement provided by others; additional or modified suction points or fans may be required by others at other's expense

System Description

The purpose of the system is to maintain a depressurized zone below the designated portion of the sub-slab compared to the ambient air pressure above the slab. The system shall be of the type typically used in radon mitigation, shall be designed and constructed in accordance with the standards detailed in the following documents: US Environmental Protection Agency (EPA) 402-R-93-078, Radon Mitigation Standards; NYS DEC document, Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Actual configurations of the suction holes and pipe runs will be determined by the Contractor in the field.

System Design

1.1 The sub slab depressurization system shall be designed and installed as permanent, integral addition to the buildings.

1.2 The sub slab depressurization unit shall be designed to avoid the creation of other health, safety, or environmental hazards to building occupants, such as back drafting of natural draft combustion appliances.

1.3 The sub slab depressurization unit shall be designed to maximize soil vapor reduction above the basement slab and in consideration of the need to minimize excess energy usage, to avoid compromising moisture and temperature controls and other comfort features, and to minimize noise.

1.4 The sub slab depressurization unit and its components shall be designed to comply with the laws, ordinances, codes, and regulations of relevant jurisdictional authorities, including applicable mechanical, electrical, building, plumbing, energy, and fire prevention codes.

System Installation

General Requirements

2.1.1 All components of the sub slab depressurization unit shall be installed in compliance with the applicable mechanical, electrical, building, plumbing, energy and fire prevention codes, standards, and regulations of the local jurisdiction.

2.1.2 The Supervision Engineering Firm shall obtain all required local licenses and permits, and display them in the work areas as required by local ordinances.

2.1.3 Where portions of structural framing material must be removed to accommodate vent pipes, material removed shall be no greater than that permitted for plumbing installations by applicable building or plumbing codes.

2.1.4 Where installation of the sub slab depressurization unit requires pipes or ducts to penetrate a firewall or other fire resistance rated wall or floor, penetrations shall be protected in accordance with applicable building, mechanical, fire, and electrical codes.

Vent Pipe Installation Requirements

2.2.1 All joints and connections in sub slab depressurization unit using plastic vent pipes shall be permanently sealed with adhesives as specified by the manufacturer of the pipe material used. Joints or connections in other vent pipe materials shall be made airtight.

2.2.2 Vent pipes shall be fastened to the structure of the building with hangers, strapping, or other supports that will adequately secure the vent material. Existing plumbing pipes, ducts, or mechanical equipment shall not be used to support or secure a vent pipe.

2.2.3 Supports for vent pipes shall be installed at least every 6 feet on horizontal runs. Vertical runs shall be secured either above or below the points of penetration through floors, ceilings, and roofs, or at least every 8 feet on runs that do not penetrate floors, ceilings, or roofs.

2.2.4 To prevent the blockage of air flow into the bottom of vent pipes, these pipes shall be supported or secured in a permanent manner that prevents their downward movement to the bottom of suction pits or sump pits, or into the soil beneath an aggregate layer under a slab.

2.2.5 Vent pipes shall be installed in a configuration that ensures that any rain water or condensation within the pipes drains downward into the ground beneath the slab.

2.2.6 Vent pipes shall not block access to any areas requiring maintenance or inspection. Vents shall not be installed in front of or interfere with any light, opening, door, window or equipment access area required by code. If vent pipes are installed in sump pits, the system shall be designed with removable or flexible couplings to facilitate removal of the sump pit cover for sump pump maintenance.

2.2.7 To prevent re-entrainment of vapors, the point of discharge from vents of fan-powered soil depressurization and block wall depressurization systems shall meet all of the following requirements: (1) be above the eave of the roof, (2) be ten feet or more above ground level, (3) be ten feet or more from any window, door, or other opening into conditioned spaces of the structure that is less than two feet below the exhaust point, and (4) be ten feet or more from any opening into an adjacent building. The total required distance (ten feet) from the point of discharge to openings in the structure may be measured either directly between the two points or be the sum of measurements made around intervening obstacles. Whenever possible, the exhaust point should be positioned above the highest eave of the building and as close to the roof ridge line.

Vent Fan Installation Requirements

2.3.1 Vent fans used in the subslab depressurization unit shall be designed or otherwise sealed to reduce the potential for leakage of soil gas from the fan housing.

2.3.2 The vent fan system shall be equipped with a vacuum indicator mounted in an easily visible location.

2.3.3 Vent fans shall be installed on the exterior of the building or in the interior above the conditioned air space.

2.3.5 Vent fans shall be installed in a configuration that avoids a condensation buildup in the fan housing. Fans should be installed in vertical runs of the vent pipe.

2.3.6 Vent fans mounted on the exterior of buildings shall be rated for outdoor use or installed in a water tight protective housing.

2.3.7 Vent fans shall be mounted and secured in a manner that minimizes transfer of vibration to the structural framing of the building.

2.3.8 To facilitate maintenance and future replacement, vent fans shall be installed in the vent pipe using removable couplings or flexible connections that can be tightly secured to both the fan and the vent pipe.

Suction Pit Requirement for Subslab Depressurization Systems

2.4.1 To provide optimum pressure field extension of the sub slab communication zone, adequate material shall be excavated from the area immediately below the slab penetration point of system vent pipes. The Contractor will make a determination on the adequate amount of material to be removed based on field conditions and experience.

2.5.1 Sump pits that permit entry of soil-gas or that would allow conditioned air to be drawn into a sub-slab depressurization system shall be covered and sealed. The covers on sumps that previously provided protection or relief from surface water collection shall be fitted with a water or mechanically trapped drain. Water traps should be fitted with an automatic supply of priming water.

2.5.2 Openings around vent pipe penetrations of the slab and the foundation walls, shall be cleaned, prepared, and sealed in a permanent, airtight manner using compatible caulks or other sealant materials. (See paragraph 3.5.) Openings around other utility penetrations of the slab, walls, or soil-gas retarder shall also be sealed.

2.5.3 Openings, perimeter channel drains, or cracks that exist where the slab meets the foundation wall (floor-wall joint), shall be sealed with urethane caulk or equivalent material. When the opening or channel is greater than 0.50 inches in width, a foam backer rod or other comparable filler material shall be inserted in the channel before application of the sealant. This sealing technique shall be done in a manner that retains the channel feature as a water control system. Other openings or cracks in slabs or at expansion or control joints should also be sealed. Openings or cracks that are determined to be inaccessible or beyond the ability of the Contractor to seal shall be disclosed to the client and included in the documentation.

Electrical Requirements

2.6.1 Wiring for the subslab depressurization unit shall conform to provisions of the National Electric Code and any additional local regulations.

2.6.2 Wiring may not be located in or chased through the mitigation installation ducting or any other heating or cooling duct work.

2.6.3 Mitigation fans installed on the exterior of buildings shall be hardwired into an electrical circuit. Plugged fans shall not be used outdoors.

2.6.4 If the rated electricity requirement of a sub slab depressurization unit fan exceeds 50 percent of the circuit capacity into which it will be connected, or if the total connected load on the circuit (including the vent fan) exceeds 80 percent of the circuit's rated capacity, a separate, dedicated circuit shall be installed to power the fan.

2.6.5 An electrical disconnect switch or a circuit breaker shall be installed in sub slab depressurization unit fan circuits to permit deactivation of the fan for maintenance or repair by the building owner or servicing Contractor (Disconnect switches are not required with plugged fans).

Materials

3.1 All mitigation system electrical components shall be U.L. listed or of equivalent specifications.

3.2 All plastic vent pipes in mitigation systems shall be made of Schedule 40 PVC.

3.3 Vent pipe fittings in a mitigation system shall be of the same material as the vent pipes. (See paragraph 2.3.7 for exception when installing vent fans, and paragraph 2.2.7 for exception when installing vent pipes in sump pit covers.)

3.4 Cleaning solvents and adhesives used to join plastic pipes and fittings shall be as recommended by manufacturers for use with the type of pipe material used in the mitigation system.

3.5 When sealing cracks in slabs and other small openings around penetrations of the slab and foundation walls, caulks and sealants designed for such application shall be used.

3.6 When sealing holes for plumbing rough-in or other large openings in slabs and foundation walls that are below the ground surface, non-shrink mortar, grouts, expanding foam, or similar materials designed for such application shall be used.

3.7 Sump pit covers shall be made of durable plastic or other rigid material and designed to permit airtight sealing. To permit easy removal for sump pump servicing, the cover shall be sealed using silicone or other nonpermanent type caulking materials or an airtight gasket.

3.8 Penetrations of sump covers to accommodate electrical wiring, water ejection pipes, or vent pipes shall be designed to permit airtight sealing around penetrations, using caulk or grommets. Sump covers that permit observation of conditions in the sump pit are recommended.

3.9 A sub membrane depressurization system made be installed in crawlspaces and on soil exposed basements and shall be a minimum of 6 mils (3 mils cross-laminated) polyethylene or equivalent flexible material. Heavier gauge sheeting should be used when areas are used for storage, or frequent entry is required for maintenance of utilities.

Post-Mitigation Testing

4.1 After installation, the Contractor shall reexamine and verify the integrity of the fan mounting seals and all joints in the interior vent piping.

4.2 After installation, the Contractor shall measure suctions or flows in system piping or ducting to assure that the system is operating as designed. A test of pressure field extension shall be performed using established test points. The Contractor shall test the vacuum achieved at each test hole by using a digital manometer, document the findings and prepare a report for the client.

Worker Health and Safety

5.1 Contractors shall comply with all OSHA, state and local standards or regulations relating to worker safety and occupational vapor exposure.

5.2.1 In addition to the OSHA and NIOSH standards, the following requirements that are specific or uniquely applicable for the safety and protection of vapor mitigation workers shall be met:

5.2.2 The Contractor shall have a worker protection plan on file that is available to all employees and is approved by any state or local regulating agencies that require such a plan.

5.2.3 The Contractor shall ensure that appropriate safety equipment such as hard hats, face shields, ear plugs, steel-toe boots and protective gloves are available on the job site during cutting, drilling, grinding, polishing, demolishing or other activity associated with vapor mitigation projects.

5.2.4 All electrical equipment used during mitigation projects shall be properly grounded. Circuits used as a power source should be protected by Ground-fault Circuit Interrupters (GFCI).

5.2.5 When work is required at elevations above the ground or floor, the Contractor shall ensure that ladders or scaffolding are safely installed and operated.

5.2.6 The Contractor shall ensure that respiratory protection conforms with the requirements in the

NIOSH Guide to Industrial Respiratory Protection.

5.2.7 Where combustible materials exist in the specific area of the building where vapor mitigation work is to be conducted, and the Contractor is creating temperatures high enough to induce a flame, the Contractor shall ensure that fire extinguishers suitable for type A, B, and C fires are available in the immediate work area.

5.2.8 In any planned work area where the Contractor or Consultant believes friable asbestos may exist and be disturbed, vapor mitigation work shall not be conducted until a determination is made by a properly trained or accredited person that such work will be undertaken in a manner which complies with applicable asbestos regulations.

5.2.10 When mitigation work requires the use of sealants, adhesives, paints, or other substances that may be hazardous to health, Contractors shall provide employees with the applicable Material Safety Data Sheets (MSDS) and explain the required safety procedures.

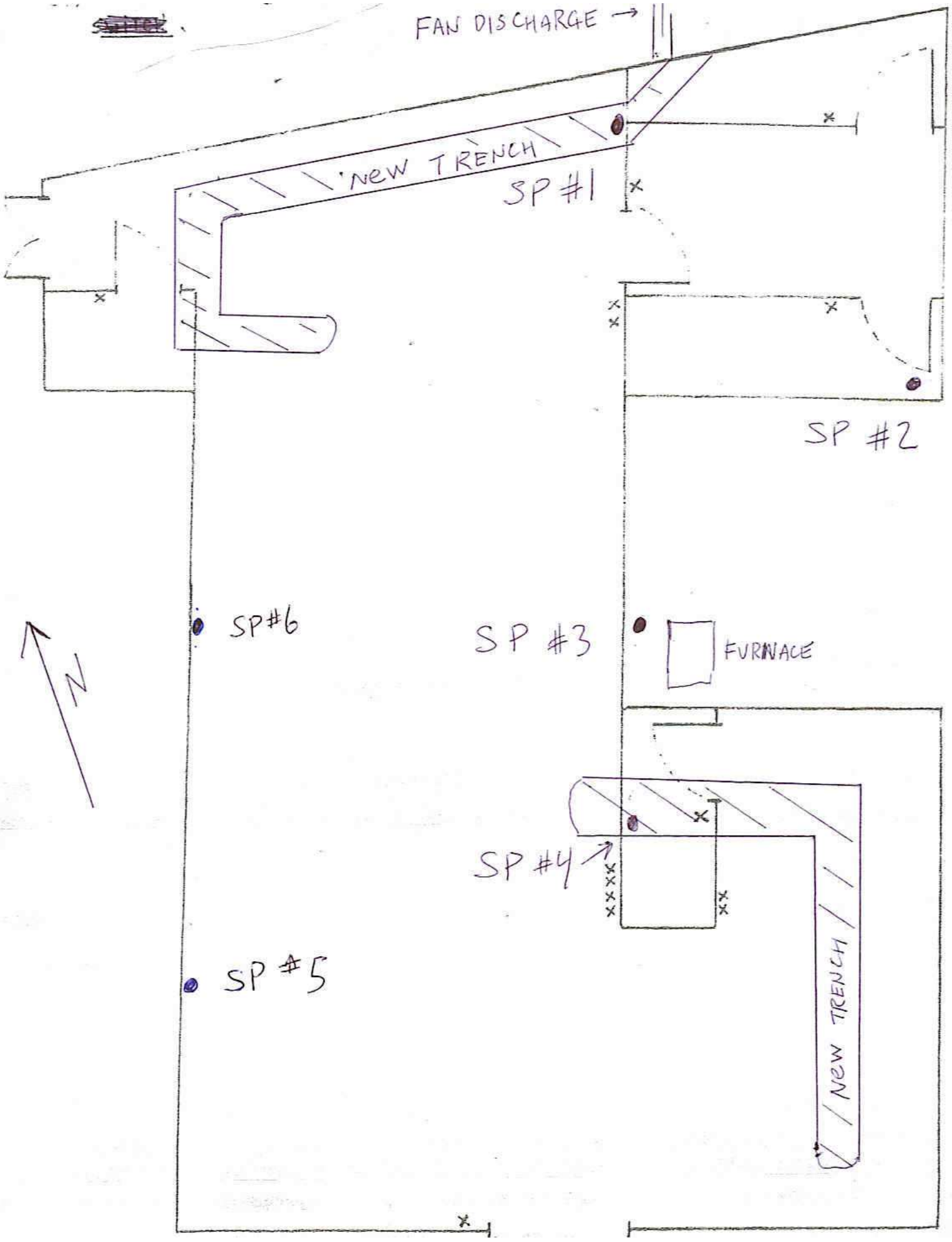
End of proposed work plan

If you have any questions, please contact me.

Thank you.

MITIGATION TECH

Nicholas E. Mouganis EPA listing # 15415-I ; NEHA ID# 100722


FAN DISCHARGE →
NEW TRENCH
SP #1
SP #2
SP#6
SP #3
FURNACE
N
SP #4
SP #5
NEW TRENCH

APPENDIX 2

Air Data Sheets

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	5.0		ppbV	1	9/21/2005
1,1,2,2-Tetrachloroethane	ND	5.0		ppbV	1	9/21/2005
1,1,2-Trichloroethane	ND	5.0		ppbV	1	9/21/2005
1,1-Dichloroethane	ND	5.0		ppbV	1	9/21/2005
1,1-Dichloroethene	ND	5.0		ppbV	1	9/21/2005
1,2,4-Trichlorobenzene	ND	5.0		ppbV	1	9/21/2005
1,2,4-Trimethylbenzene	3	5.0	J	ppbV	1	9/21/2005
1,2-Dibromoethane	ND	5.0		ppbV	1	9/21/2005
1,2-Dichlorobenzene	ND	5.0		ppbV	1	9/21/2005
1,2-Dichloroethane	ND	5.0		ppbV	1	9/21/2005
1,2-Dichloropropane	ND	5.0		ppbV	1	9/21/2005
1,3,5-Trimethylbenzene	ND	5.0		ppbV	1	9/21/2005
1,3-butadiene	ND	5.0		ppbV	1	9/21/2005
1,3-Dichlorobenzene	ND	5.0		ppbV	1	9/21/2005
1,4-Dichlorobenzene	ND	5.0		ppbV	1	9/21/2005
1,4-Dioxane	ND	5.0		ppbV	1	9/21/2005
2,2,4-trimethylpentane	ND	5.0		ppbV	1	9/21/2005
4-ethyltoluene	1	5.0	J	ppbV	1	9/21/2005
Acetone	ND	5.0		ppbV	1	9/21/2005
Allyl chloride	ND	5.0		ppbV	1	9/21/2005
Benzene	10	5.0		ppbV	1	9/21/2005
Benzyl chloride	ND	5.0		ppbV	1	9/21/2005
Bromodichloromethane	ND	5.0		ppbV	1	9/21/2005
Bromoform	ND	5.0		ppbV	1	9/21/2005
Bromomethane	ND	5.0		ppbV	1	9/21/2005
Carbon disulfide	ND	5.0		ppbV	1	9/21/2005
Carbon tetrachloride	ND	5.0		ppbV	1	9/21/2005
Chlorobenzene	ND	5.0		ppbV	1	9/21/2005
Chloroethane	ND	5.0		ppbV	1	9/21/2005
Chloroform	ND	5.0		ppbV	1	9/21/2005
Chloromethane	ND	5.0		ppbV	1	9/21/2005
cis-1,2-Dichloroethene	33	5.0		ppbV	1	9/21/2005
cis-1,3-Dichloropropene	ND	5.0		ppbV	1	9/21/2005
Cyclohexane	12	5.0		ppbV	1	9/21/2005
Dibromochloromethane	ND	5.0		ppbV	1	9/21/2005
Ethyl acetate	ND	5.0		ppbV	1	9/21/2005
Ethylbenzene	3	5.0	J	ppbV	1	9/21/2005
Freon 11	ND	5.0		ppbV	1	9/21/2005
Freon 113	ND	5.0		ppbV	1	9/21/2005
Freon 114	ND	5.0		ppbV	1	9/21/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15		**TO-15**				Analyst: **RJP**
Freon 12	ND	5.0		ppbV	1	9/21/2005
Heptane	6.3	5.0		ppbV	1	9/21/2005
Hexachloro-1,3-butadiene	ND	5.0		ppbV	1	9/21/2005
Hexane	31	5.0		ppbV	1	9/21/2005
Isopropyl alcohol	ND	5.0		ppbV	1	9/21/2005
m-Xylene	9.3	5.0		ppbV	1	9/21/2005
Methyl Butyl Ketone	ND	5.0		ppbV	1	9/21/2005
Methyl Ethyl Ketone	ND	5.0		ppbV	1	9/21/2005
Methyl Isobutyl Ketone	ND	5.0		ppbV	1	9/21/2005
Methyl tert-butyl ether	ND	5.0		ppbV	1	9/21/2005
Methylene chloride	ND	5.0		ppbV	1	9/21/2005
o-Xylene	5	5.0	J	ppbV	1	9/21/2005
p-Xylene	4	5.0	J	ppbV	1	9/21/2005
Propylene	ND	5.0		ppbV	1	9/21/2005
Styrene	ND	5.0		ppbV	1	9/21/2005
Tetrachloroethylene	1200	50		ppbV	10	9/21/2005
Tetrahydrofuran	ND	5.0		ppbV	1	9/21/2005
Toluene	85	5.0		ppbV	1	9/21/2005
trans-1,2-Dichloroethene	4	5.0	J	ppbV	1	9/21/2005
trans-1,3-Dichloropropene	ND	5.0		ppbV	1	9/21/2005
Trichloroethene	84	5.0		ppbV	1	9/21/2005
Vinyl acetate	ND	5.0		ppbV	1	9/21/2005
Vinyl Bromide	ND	5.0		ppbV	1	9/21/2005
Vinyl chloride	ND	5.0		ppbV	1	9/21/2005
Surr: Bromofluorobenzene	97.7	70-130		%REC	1	9/21/2005
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	1	3.0	J	ppbV	20	9/20/2005
1,1,2,2-Tetrachloroethane	ND	3.0		ppbV	20	9/20/2005
1,1,2-Trichloroethane	ND	3.0		ppbV	20	9/20/2005
1,1-Dichloroethane	ND	3.0		ppbV	20	9/20/2005
1,1-Dichloroethene	ND	3.0		ppbV	20	9/20/2005
1,2,4-Trichlorobenzene	ND	3.0		ppbV	20	9/20/2005
1,2,4-Trimethylbenzene	3.4	3.0		ppbV	20	9/20/2005
1,2-Dibromoethane	ND	3.0		ppbV	20	9/20/2005
1,2-Dichlorobenzene	ND	3.0		ppbV	20	9/20/2005
1,2-Dichloroethane	ND	3.0		ppbV	20	9/20/2005
1,2-Dichloropropane	ND	3.0		ppbV	20	9/20/2005
1,3,5-Trimethylbenzene	1	3.0	J	ppbV	20	9/20/2005
1,3-butadiene	ND	3.0		ppbV	20	9/20/2005

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
1,3-Dichlorobenzene	ND	3.0		ppbV	20	9/20/2005
1,4-Dichlorobenzene	ND	3.0		ppbV	20	9/20/2005
1,4-Dioxane	ND	6.0		ppbV	20	9/20/2005
2,2,4-trimethylpentane	ND	3.0		ppbV	20	9/20/2005
4-ethyltoluene	2	3.0	J	ppbV	20	9/20/2005
Acetone	ND	6.0		ppbV	20	9/20/2005
Allyl chloride	ND	3.0		ppbV	20	9/20/2005
Benzene	1	3.0	J	ppbV	20	9/20/2005
Benzyl chloride	ND	3.0		ppbV	20	9/20/2005
Bromodichloromethane	ND	3.0		ppbV	20	9/20/2005
Bromoform	ND	3.0		ppbV	20	9/20/2005
Bromomethane	ND	3.0		ppbV	20	9/20/2005
Carbon disulfide	ND	3.0		ppbV	20	9/20/2005
Carbon tetrachloride	ND	3.0		ppbV	20	9/20/2005
Chlorobenzene	ND	3.0		ppbV	20	9/20/2005
Chloroethane	ND	3.0		ppbV	20	9/20/2005
Chloroform	2	3.0	J	ppbV	20	9/20/2005
Chloromethane	ND	3.0		ppbV	20	9/20/2005
cis-1,2-Dichloroethene	52	3.0	E	ppbV	20	9/20/2005
cis-1,3-Dichloropropene	ND	3.0		ppbV	20	9/20/2005
Cyclohexane	ND	3.0		ppbV	20	9/20/2005
Dibromochloromethane	ND	3.0		ppbV	20	9/20/2005
Ethyl acetate	ND	5.0		ppbV	20	9/20/2005
Ethylbenzene	3.4	3.0		ppbV	20	9/20/2005
Freon 11	ND	3.0		ppbV	20	9/20/2005
Freon 113	1	3.0	J	ppbV	20	9/20/2005
Freon 114	ND	3.0		ppbV	20	9/20/2005
Freon 12	ND	3.0		ppbV	20	9/20/2005
Heptane	ND	3.0		ppbV	20	9/20/2005
Hexachloro-1,3-butadiene	ND	3.0		ppbV	20	9/20/2005
Hexane	ND	3.0		ppbV	20	9/20/2005
Isopropyl alcohol	ND	3.0		ppbV	20	9/20/2005
m-Xylene	7.2	3.0		ppbV	20	9/20/2005
Methyl Butyl Ketone	ND	6.0		ppbV	20	9/20/2005
Methyl Ethyl Ketone	ND	6.0		ppbV	20	9/20/2005
Methyl Isobutyl Ketone	ND	6.0		ppbV	20	9/20/2005
Methyl tert-butyl ether	ND	3.0		ppbV	20	9/20/2005
Methylene chloride	ND	3.0		ppbV	20	9/20/2005
o-Xylene	3.4	3.0		ppbV	20	9/20/2005
p-Xylene	3	3.0	J	ppbV	20	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
Propylene	ND	3.0		ppbV	20	9/20/2005
Styrene	ND	3.0		ppbV	20	9/20/2005
Tetrachloroethylene	2600	3.0	E	ppbV	20	9/20/2005
Tetrahydrofuran	ND	3.0		ppbV	20	9/20/2005
Toluene	120	3.0	E	ppbV	20	9/20/2005
trans-1,2-Dichloroethene	5.6	3.0		ppbV	20	9/20/2005
trans-1,3-Dichloropropene	ND	3.0		ppbV	20	9/20/2005
Trichloroethene	160	3.0	E	ppbV	20	9/20/2005
Vinyl acetate	ND	3.0		ppbV	20	9/20/2005
Vinyl Bromide	ND	3.0		ppbV	20	9/20/2005
Vinyl chloride	ND	3.0		ppbV	20	9/20/2005
Surr: Bromofluorobenzene	84.0	70-130		%REC	20	9/20/2005

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument. See Method TO-15 for final result

* Due to the high concentration of the target analyte, the sample was analyzed at a 20x dilution.

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 1
Lab Order:	C0509015	**Tag Number:**	196, 53
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trimethylbenzene	ND	3.00		ppbV	20	9/20/2005
1,2-Dibromoethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloropropane	ND	0.150		ppbV	1	9/20/2005
1,3,5-Trimethylbenzene	1.45	0.150		ppbV	1	9/20/2005
1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dioxane	ND	0.300		ppbV	1	9/20/2005
2,2,4-trimethylpentane	0.610	0.150		ppbV	1	9/20/2005
4-ethyltoluene	0.700	0.150		ppbV	1	9/20/2005
Acetone	ND	0.300		ppbV	1	9/20/2005
Allyl chloride	ND	0.150		ppbV	1	9/20/2005
Benzene	1.09	0.150		ppbV	1	9/20/2005
Benzyl chloride	ND	0.150		ppbV	1	9/20/2005
Bromodichloromethane	ND	0.150		ppbV	1	9/20/2005
Bromoform	ND	0.150		ppbV	1	9/20/2005
Bromomethane	ND	0.150		ppbV	1	9/20/2005
Carbon disulfide	ND	0.150		ppbV	1	9/20/2005
Carbon tetrachloride	0.10	0.150	J	ppbV	1	9/20/2005
Chlorobenzene	ND	0.150		ppbV	1	9/20/2005
Chloroethane	ND	0.150		ppbV	1	9/20/2005
Chloroform	0.190	0.150		ppbV	1	9/20/2005
Chloromethane	ND	0.150		ppbV	1	9/20/2005
cis-1,2-Dichloroethene	3.40	3.00		ppbV	20	9/20/2005
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Cyclohexane	1.18	0.150		ppbV	1	9/20/2005
Dibromochloromethane	ND	0.150		ppbV	1	9/20/2005
Ethyl acetate	ND	0.250		ppbV	1	9/20/2005
Ethylbenzene	13.8	3.00		ppbV	20	9/20/2005
Freon 11	0.280	0.150		ppbV	1	9/20/2005
Freon 113	0.13	0.150	J	ppbV	1	9/20/2005
Freon 114	ND	0.150		ppbV	1	9/20/2005

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 1
Lab Order:	C0509015	**Tag Number:**	196, 53
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	0.570	0.150		ppbV	1	9/20/2005
Heptane	0.760	0.150		ppbV	1	9/20/2005
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
Hexane	1.50	0.150		ppbV	1	9/20/2005
Isopropyl alcohol	ND	0.150		ppbV	1	9/20/2005
m-Xylene	45.6	18.0		ppbV	120	9/20/2005
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl Ethyl Ketone	1.93	0.300		ppbV	1	9/20/2005
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/20/2005
Methylene chloride	0.270	0.150		ppbV	1	9/20/2005
o-Xylene	37.6	3.00		ppbV	20	9/20/2005
p-Xylene	27.6	3.00		ppbV	20	9/20/2005
Propylene	ND	0.150		ppbV	1	9/20/2005
Styrene	ND	0.150		ppbV	1	9/20/2005
Tetrachloroethylene	161	18.0		ppbV	120	9/20/2005
Tetrahydrofuran	ND	0.150		ppbV	1	9/20/2005
Toluene	10.8	3.00		ppbV	20	9/20/2005
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Trichloroethene	3.20	0.800		ppbV	20	9/20/2005
Vinyl acetate	ND	0.150		ppbV	1	9/20/2005
Vinyl Bromide	ND	0.150		ppbV	1	9/20/2005
Vinyl chloride	0.290	0.150		ppbV	1	9/20/2005
Surr: Bromofluorobenzene	124	70-130		%REC	1	9/20/2005

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 2
Lab Order:	C0509015	**Tag Number:**	137, 65
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trimethylbenzene	ND	3.00		ppbV	20	9/20/2005
1,2-Dibromoethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloropropane	ND	0.150		ppbV	1	9/20/2005
1,3,5-Trimethylbenzene	1.21	0.150		ppbV	1	9/20/2005
1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dioxane	ND	0.300		ppbV	1	9/20/2005
2,2,4-trimethylpentane	0.580	0.150		ppbV	1	9/20/2005
4-ethyltoluene	0.660	0.150		ppbV	1	9/20/2005
Acetone	ND	0.300		ppbV	1	9/20/2005
Allyl chloride	ND	0.150		ppbV	1	9/20/2005
Benzene	1.19	0.150		ppbV	1	9/20/2005
Benzyl chloride	ND	0.150		ppbV	1	9/20/2005
Bromodichloromethane	ND	0.150		ppbV	1	9/20/2005
Bromoform	ND	0.150		ppbV	1	9/20/2005
Bromomethane	ND	0.150		ppbV	1	9/20/2005
Carbon disulfide	ND	0.150		ppbV	1	9/20/2005
Carbon tetrachloride	0.10	0.150	J	ppbV	1	9/20/2005
Chlorobenzene	ND	0.150		ppbV	1	9/20/2005
Chloroethane	ND	0.150		ppbV	1	9/20/2005
Chloroform	0.210	0.150		ppbV	1	9/20/2005
Chloromethane	ND	0.150		ppbV	1	9/20/2005
cis-1,2-Dichloroethene	3.00	3.00		ppbV	20	9/20/2005
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Cyclohexane	1.08	0.150		ppbV	1	9/20/2005
Dibromochloromethane	ND	0.150		ppbV	1	9/20/2005
Ethyl acetate	ND	0.250		ppbV	1	9/20/2005
Ethylbenzene	14.4	3.00		ppbV	20	9/20/2005
Freon 11	0.280	0.150		ppbV	1	9/20/2005
Freon 113	0.14	0.150	J	ppbV	1	9/20/2005
Freon 114	ND	0.150		ppbV	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 2
Lab Order:	C0509015	**Tag Number:**	137, 65
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	0.610	0.150		ppbV	1	9/20/2005
Heptane	0.770	0.150		ppbV	1	9/20/2005
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
Hexane	1.43	0.150		ppbV	1	9/20/2005
Isopropyl alcohol	ND	0.150		ppbV	1	9/20/2005
m-Xylene	27.6	18.0		ppbV	120	9/20/2005
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl Ethyl Ketone	1.98	0.300		ppbV	1	9/20/2005
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/20/2005
Methylene chloride	0.180	0.150		ppbV	1	9/20/2005
o-Xylene	40.2	3.00		ppbV	20	9/20/2005
p-Xylene	24.8	3.00		ppbV	20	9/20/2005
Propylene	ND	0.150		ppbV	1	9/20/2005
Styrene	ND	0.150		ppbV	1	9/20/2005
Tetrachloroethylene	91.2	18.0		ppbV	120	9/20/2005
Tetrahydrofuran	ND	0.150		ppbV	1	9/20/2005
Toluene	11.0	3.00		ppbV	20	9/20/2005
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Trichloroethene	3.00	0.800		ppbV	20	9/20/2005
Vinyl acetate	ND	0.150		ppbV	1	9/20/2005
Vinyl Bromide	ND	0.150		ppbV	1	9/20/2005
Vinyl chloride	0.300	0.150		ppbV	1	9/20/2005
Surr: Bromofluorobenzene	121	70-130		%REC	1	9/20/2005

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Outdoor
Lab Order:	C0509015	**Tag Number:**	225, 179
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/20/2005
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,1-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2,4-Trimethylbenzene	1.43	0.150		ppbV	1	9/20/2005
1,2-Dibromoethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloroethane	ND	0.150		ppbV	1	9/20/2005
1,2-Dichloropropane	ND	0.150		ppbV	1	9/20/2005
1,3,5-Trimethylbenzene	0.470	0.150		ppbV	1	9/20/2005
1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dichlorobenzene	ND	0.150		ppbV	1	9/20/2005
1,4-Dioxane	ND	0.300		ppbV	1	9/20/2005
2,2,4-trimethylpentane	1.04	0.150		ppbV	1	9/20/2005
4-ethyltoluene	0.510	0.150		ppbV	1	9/20/2005
Acetone	ND	0.300		ppbV	1	9/20/2005
Allyl chloride	ND	0.150		ppbV	1	9/20/2005
Benzene	1.63	0.150		ppbV	1	9/20/2005
Benzyl chloride	ND	0.150		ppbV	1	9/20/2005
Bromodichloromethane	ND	0.150		ppbV	1	9/20/2005
Bromoform	ND	0.150		ppbV	1	9/20/2005
Bromomethane	ND	0.150		ppbV	1	9/20/2005
Carbon disulfide	ND	0.150		ppbV	1	9/20/2005
Carbon tetrachloride	ND	0.150		ppbV	1	9/20/2005
Chlorobenzene	ND	0.150		ppbV	1	9/20/2005
Chloroethane	ND	0.150		ppbV	1	9/20/2005
Chloroform	ND	0.150		ppbV	1	9/20/2005
Chloromethane	ND	0.150		ppbV	1	9/20/2005
cis-1,2-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Cyclohexane	0.940	0.150		ppbV	1	9/20/2005
Dibromochloromethane	ND	0.150		ppbV	1	9/20/2005
Ethyl acetate	ND	0.250		ppbV	1	9/20/2005
Ethylbenzene	1.13	0.150		ppbV	1	9/20/2005
Freon 11	0.280	0.150		ppbV	1	9/20/2005
Freon 113	0.14	0.150	J	ppbV	1	9/20/2005
Freon 114	ND	0.150		ppbV	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Outdoor
Lab Order:	C0509015	**Tag Number:**	225, 179
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	0.580	0.150		ppbV	1	9/20/2005
Heptane	0.710	0.150		ppbV	1	9/20/2005
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/20/2005
Hexane	2.13	0.150		ppbV	1	9/20/2005
Isopropyl alcohol	ND	0.150		ppbV	1	9/20/2005
m-Xylene	1.90	1.50		ppbV	10	9/20/2005
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl Ethyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/20/2005
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/20/2005
Methylene chloride	0.260	0.150		ppbV	1	9/20/2005
o-Xylene	1.46	0.150		ppbV	1	9/20/2005
p-Xylene	1.14	0.150		ppbV	1	9/20/2005
Propylene	ND	0.150		ppbV	1	9/20/2005
Styrene	ND	0.150		ppbV	1	9/20/2005
Tetrachloroethylene	0.620	0.150		ppbV	1	9/20/2005
Tetrahydrofuran	ND	0.150		ppbV	1	9/20/2005
Toluene	5.80	1.50		ppbV	10	9/20/2005
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/20/2005
Trichloroethene	0.0900	0.0400		ppbV	1	9/20/2005
Vinyl acetate	ND	0.150		ppbV	1	9/20/2005
Vinyl Bromide	ND	0.150		ppbV	1	9/20/2005
Vinyl chloride	ND	0.150		ppbV	1	9/20/2005
Surr: Bromofluorobenzene	100	70-130		%REC	1	9/20/2005

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	28		ug/m3	1	9/21/2005
1,1,2,2-Tetrachloroethane	ND	35		ug/m3	1	9/21/2005
1,1,2-Trichloroethane	ND	28		ug/m3	1	9/21/2005
1,1-Dichloroethane	ND	21		ug/m3	1	9/21/2005
1,1-Dichloroethene	ND	20		ug/m3	1	9/21/2005
1,2,4-Trichlorobenzene	ND	38		ug/m3	1	9/21/2005
1,2,4-Trimethylbenzene	14	25	J	ug/m3	1	9/21/2005
1,2-Dibromoethane	ND	39		ug/m3	1	9/21/2005
1,2-Dichlorobenzene	ND	31		ug/m3	1	9/21/2005
1,2-Dichloroethane	ND	21		ug/m3	1	9/21/2005
1,2-Dichloropropane	ND	23		ug/m3	1	9/21/2005
1,3,5-Trimethylbenzene	ND	25		ug/m3	1	9/21/2005
1,3-butadiene	ND	11		ug/m3	1	9/21/2005
1,3-Dichlorobenzene	ND	31		ug/m3	1	9/21/2005
1,4-Dichlorobenzene	ND	31		ug/m3	1	9/21/2005
1,4-Dioxane	ND	18		ug/m3	1	9/21/2005
2,2,4-trimethylpentane	ND	24		ug/m3	1	9/21/2005
4-ethyltoluene	6.4	25	J	ug/m3	1	9/21/2005
Acetone	ND	12		ug/m3	1	9/21/2005
Allyl chloride	ND	16		ug/m3	1	9/21/2005
Benzene	33	16		ug/m3	1	9/21/2005
Benzyl chloride	ND	29		ug/m3	1	9/21/2005
Bromodichloromethane	ND	34		ug/m3	1	9/21/2005
Bromoform	ND	53		ug/m3	1	9/21/2005
Bromomethane	ND	20		ug/m3	1	9/21/2005
Carbon disulfide	ND	16		ug/m3	1	9/21/2005
Carbon tetrachloride	ND	32		ug/m3	1	9/21/2005
Chlorobenzene	ND	23		ug/m3	1	9/21/2005
Chloroethane	ND	13		ug/m3	1	9/21/2005
Chloroform	ND	25		ug/m3	1	9/21/2005
Chloromethane	ND	10		ug/m3	1	9/21/2005
cis-1,2-Dichloroethene	130	20		ug/m3	1	9/21/2005
cis-1,3-Dichloropropene	ND	23		ug/m3	1	9/21/2005
Cyclohexane	42	17		ug/m3	1	9/21/2005
Dibromochloromethane	ND	43		ug/m3	1	9/21/2005
Ethyl acetate	ND	18		ug/m3	1	9/21/2005
Ethylbenzene	15	22	J	ug/m3	1	9/21/2005
Freon 11	ND	29		ug/m3	1	9/21/2005
Freon 113	ND	39		ug/m3	1	9/21/2005
Freon 114	ND	36		ug/m3	1	9/21/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15		**TO-15**				Analyst: **RJP**
Freon 12	ND	25		ug/m3	1	9/21/2005
Heptane	26	21		ug/m3	1	9/21/2005
Hexachloro-1,3-butadiene	ND	54		ug/m3	1	9/21/2005
Hexane	110	18		ug/m3	1	9/21/2005
Isopropyl alcohol	ND	12		ug/m3	1	9/21/2005
m-Xylene	41	22		ug/m3	1	9/21/2005
Methyl Butyl Ketone	ND	21		ug/m3	1	9/21/2005
Methyl Ethyl Ketone	ND	15		ug/m3	1	9/21/2005
Methyl Isobutyl Ketone	ND	21		ug/m3	1	9/21/2005
Methyl tert-butyl ether	ND	18		ug/m3	1	9/21/2005
Methylene chloride	ND	18		ug/m3	1	9/21/2005
o-Xylene	21	22	J	ug/m3	1	9/21/2005
p-Xylene	20	22	J	ug/m3	1	9/21/2005
Propylene	ND	8.7		ug/m3	1	9/21/2005
Styrene	ND	22		ug/m3	1	9/21/2005
Tetrachloroethylene	8300	340		ug/m3	10	9/21/2005
Tetrahydrofuran	ND	15		ug/m3	1	9/21/2005
Toluene	330	19		ug/m3	1	9/21/2005
trans-1,2-Dichloroethene	16	20	J	ug/m3	1	9/21/2005
trans-1,3-Dichloropropene	ND	23		ug/m3	1	9/21/2005
Trichloroethene	460	27		ug/m3	1	9/21/2005
Vinyl acetate	ND	18		ug/m3	1	9/21/2005
Vinyl Bromide	ND	22		ug/m3	1	9/21/2005
Vinyl chloride	ND	13		ug/m3	1	9/21/2005
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	6.7	17	J	ug/m3	20	9/20/2005
1,1,2,2-Tetrachloroethane	ND	21		ug/m3	20	9/20/2005
1,1,2-Trichloroethane	ND	17		ug/m3	20	9/20/2005
1,1-Dichloroethane	ND	12		ug/m3	20	9/20/2005
1,1-Dichloroethene	ND	12		ug/m3	20	9/20/2005
1,2,4-Trichlorobenzene	ND	23		ug/m3	20	9/20/2005
1,2,4-Trimethylbenzene	17	15		ug/m3	20	9/20/2005
1,2-Dibromoethane	ND	23		ug/m3	20	9/20/2005
1,2-Dichlorobenzene	ND	18		ug/m3	20	9/20/2005
1,2-Dichloroethane	ND	12		ug/m3	20	9/20/2005
1,2-Dichloropropane	ND	14		ug/m3	20	9/20/2005
1,3,5-Trimethylbenzene	6.0	15	J	ug/m3	20	9/20/2005
1,3-butadiene	ND	6.7		ug/m3	20	9/20/2005
1,3-Dichlorobenzene	ND	18		ug/m3	20	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
1,4-Dichlorobenzene	ND	18		ug/m3	20	9/20/2005
1,4-Dioxane	ND	22		ug/m3	20	9/20/2005
2,2,4-trimethylpentane	ND	14		ug/m3	20	9/20/2005
4-ethyltoluene	9.0	15	J	ug/m3	20	9/20/2005
Acetone	ND	14		ug/m3	20	9/20/2005
Allyl chloride	ND	9.5		ug/m3	20	9/20/2005
Benzene	4.5	9.7	J	ug/m3	20	9/20/2005
Benzyl chloride	ND	18		ug/m3	20	9/20/2005
Bromodichloromethane	ND	20		ug/m3	20	9/20/2005
Bromoform	ND	32		ug/m3	20	9/20/2005
Bromomethane	ND	12		ug/m3	20	9/20/2005
Carbon disulfide	ND	9.5		ug/m3	20	9/20/2005
Carbon tetrachloride	ND	19		ug/m3	20	9/20/2005
Chlorobenzene	ND	14		ug/m3	20	9/20/2005
Chloroethane	ND	8.0		ug/m3	20	9/20/2005
Chloroform	8.9	15	J	ug/m3	20	9/20/2005
Chloromethane	ND	6.3		ug/m3	20	9/20/2005
cis-1,2-Dichloroethene	210	12	E	ug/m3	20	9/20/2005
cis-1,3-Dichloropropene	ND	14		ug/m3	20	9/20/2005
Cyclohexane	ND	10		ug/m3	20	9/20/2005
Dibromochloromethane	ND	26		ug/m3	20	9/20/2005
Ethyl acetate	ND	18		ug/m3	20	9/20/2005
Ethylbenzene	15	13		ug/m3	20	9/20/2005
Freon 11	ND	17		ug/m3	20	9/20/2005
Freon 113	11	23	J	ug/m3	20	9/20/2005
Freon 114	ND	21		ug/m3	20	9/20/2005
Freon 12	ND	15		ug/m3	20	9/20/2005
Heptane	ND	12		ug/m3	20	9/20/2005
Hexachloro-1,3-butadiene	ND	33		ug/m3	20	9/20/2005
Hexane	ND	11		ug/m3	20	9/20/2005
Isopropyl alcohol	ND	7.5		ug/m3	20	9/20/2005
m-Xylene	32	13		ug/m3	20	9/20/2005
Methyl Butyl Ketone	ND	25		ug/m3	20	9/20/2005
Methyl Ethyl Ketone	ND	18		ug/m3	20	9/20/2005
Methyl Isobutyl Ketone	ND	25		ug/m3	20	9/20/2005
Methyl tert-butyl ether	ND	11		ug/m3	20	9/20/2005
Methylene chloride	ND	11		ug/m3	20	9/20/2005
o-Xylene	15	13		ug/m3	20	9/20/2005
p-Xylene	12	13	J	ug/m3	20	9/20/2005
Propylene	ND	5.2		ug/m3	20	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Sub Slab
Lab Order:	C0509015	**Tag Number:**	201, 192
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15_1UG/M3		**TO-15**				Analyst: **RJP**
Styrene	ND	13		ug/m3	20	9/20/2005
Tetrachloroethylene	18000	21	E	ug/m3	20	9/20/2005
Tetrahydrofuran	ND	9.0		ug/m3	20	9/20/2005
Toluene	450	11	E	ug/m3	20	9/20/2005
trans-1,2-Dichloroethene	23	12		ug/m3	20	9/20/2005
trans-1,3-Dichloropropene	ND	14		ug/m3	20	9/20/2005
Trichloroethene	860	16	E	ug/m3	20	9/20/2005
Vinyl acetate	ND	11		ug/m3	20	9/20/2005
Vinyl Bromide	ND	13		ug/m3	20	9/20/2005
Vinyl chloride	ND	7.8		ug/m3	20	9/20/2005

NOTES:

E - Estimated value. The amount exceeds the linear working range of the instrument. See Method TO-15 for final result

* Due to the high concentration of the target analyte, the sample was analyzed at a 20x dilution.

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 1
Lab Order:	C0509015	**Tag Number:**	196, 53
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/20/2005
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/20/2005
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/20/2005
1,2,4-Trimethylbenzene	ND	15.0		ug/m3	20	9/20/2005
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/20/2005
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/20/2005
1,3,5-Trimethylbenzene	7.25	0.750		ug/m3	1	9/20/2005
1,3-butadiene	ND	0.337		ug/m3	1	9/20/2005
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dioxane	ND	1.10		ug/m3	1	9/20/2005
2,2,4-trimethylpentane	2.90	0.712		ug/m3	1	9/20/2005
4-ethyltoluene	3.50	0.750		ug/m3	1	9/20/2005
Acetone	ND	0.724		ug/m3	1	9/20/2005
Allyl chloride	ND	0.477		ug/m3	1	9/20/2005
Benzene	3.54	0.487		ug/m3	1	9/20/2005
Benzyl chloride	ND	0.877		ug/m3	1	9/20/2005
Bromodichloromethane	ND	1.02		ug/m3	1	9/20/2005
Bromoform	ND	1.58		ug/m3	1	9/20/2005
Bromomethane	ND	0.592		ug/m3	1	9/20/2005
Carbon disulfide	ND	0.475		ug/m3	1	9/20/2005
Carbon tetrachloride	0.640	0.959	J	ug/m3	1	9/20/2005
Chlorobenzene	ND	0.702		ug/m3	1	9/20/2005
Chloroethane	ND	0.402		ug/m3	1	9/20/2005
Chloroform	0.943	0.744		ug/m3	1	9/20/2005
Chloromethane	ND	0.315		ug/m3	1	9/20/2005
cis-1,2-Dichloroethene	13.7	12.1		ug/m3	20	9/20/2005
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Cyclohexane	4.13	0.525		ug/m3	1	9/20/2005
Dibromochloromethane	ND	1.30		ug/m3	1	9/20/2005
Ethyl acetate	ND	0.916		ug/m3	1	9/20/2005
Ethylbenzene	60.9	13.2		ug/m3	20	9/20/2005
Freon 11	1.60	0.857		ug/m3	1	9/20/2005
Freon 113	1.01	1.17	J	ug/m3	1	9/20/2005
Freon 114	ND	1.07		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 1
Lab Order:	C0509015	**Tag Number:**	196, 53
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	2.87	0.754		ug/m3	1	9/20/2005
Heptane	3.17	0.625		ug/m3	1	9/20/2005
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/20/2005
Hexane	5.37	0.537		ug/m3	1	9/20/2005
Isopropyl alcohol	ND	0.375		ug/m3	1	9/20/2005
m-Xylene	201	79.4		ug/m3	120	9/20/2005
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl Ethyl Ketone	5.79	0.899		ug/m3	1	9/20/2005
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/20/2005
Methylene chloride	0.953	0.530		ug/m3	1	9/20/2005
o-Xylene	166	13.2		ug/m3	20	9/20/2005
p-Xylene	122	13.2		ug/m3	20	9/20/2005
Propylene	ND	0.262		ug/m3	1	9/20/2005
Styrene	ND	0.649		ug/m3	1	9/20/2005
Tetrachloroethylene	1110	124		ug/m3	120	9/20/2005
Tetrahydrofuran	ND	0.450		ug/m3	1	9/20/2005
Toluene	41.4	11.5		ug/m3	20	9/20/2005
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Trichloroethene	17.5	4.37		ug/m3	20	9/20/2005
Vinyl acetate	ND	0.537		ug/m3	1	9/20/2005
Vinyl Bromide	ND	0.667		ug/m3	1	9/20/2005
Vinyl chloride	0.753	0.390		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

APPENDIX 6

Soil Boring Logs & Well Construction Diagrams

Boring Log

Project No. 99018.14 Page 1 of 1 Test No. BH1 (SW corner near fuel oil tank pit)
Project Name Speedy's Cleaners BCP
Client Passero Associates
Inspector Morton
Date Started 7-14-05 Completed 7-14-05

Depth Below Surface	Blows Per Six inches 0 to 6	6 to 12	12 to 18	18 to 24	PID	Soil and Rock Classifications / Remarks
	4	9			0	asphalt, m-c fill SAND w/ tr gravel
2.0 ft.			5	4		
	2	2			10 ppm	wet well-sorted m SAND
4.0 ft.			1	3		sat f-m-c SAND w/ tr silt, gravel
	2	2			10ppm	
6.0 ft.			9	6		
	1	2			15ppm	sat f-m-c SAND w/ tr silt, gravel, black staining w/ faint petroleum odor
8.0 ft.			13	9		
	3	13			0	same as above, color native tan @ 9' BGS
10.0 ft.			8	9		
	8	23			0	sat m tan SAND w/ tr gravel
12.0 ft.			13	6		
14.0 ft.						
16.0 ft.						

Boring Log

Project No. 99018.14 Page 1 of 1 Test No. BH2 (NW corner)
Project Name Speedy's Cleaners BCP
Client
Inspector Morton
Date Started 7-13-05 Completed 7-13-05

Depth Below Surface	Blows Per Six inches 0 to 6	6 to 12	12 to 18	18 to 24	PID	Soil and Rock Classifications / Remarks
	9	9			150	dry tan m SAND
2.0 ft.			6	7		
	7	8			150	dry tan m SAND
4.0 ft.			50/5"			
	9	11			130	same
6.0 ft.			13	11		
	11	5			30	grey moist m SAND w/tr gravel
8.0 ft.			11	12		
	2	2			70	same
10.0 ft.			2	2		
	4	7			<10	same
12.0 ft.			5	6		
	2	3			<10	same
14.0 ft.			4	5		
16.0 ft.						

Boring Log

Project No. 99018.14 Page 1 of 1 Test No. BH 3 (NE Corner)
Project Name Speedy's Cleaners BCP
Client Passero Associates
Inspector Morton
Date Started 7/13/05 Completed 7/13/05

Depth Below Surface	Blows Per Six inches 0 to 6	6 to 12	12 to 18	18 to 24	PID	Soil and Rock Classifications / Remarks
		5			220	Asphalt, broken stone sub-base, tan dry f SAND w/ tr silt
2.0 ft.			3	2		
	8	6			80	tan dry f SAND w/ tr silt
4.0 ft.			6	9		
	2	2				No recovery
6.0 ft.			2	2		
					5	tan dry f SAND w/ tr silt
8.0 ft.	7	5				
			6	11		moist tan f SAND, black staining w/ wood chips
10.0 ft.	15	15			4	
			15	15		moist f SAND w/ tr gravel
12.0 ft.	11	46				
			47	47		Same, over dry hill @ ± 15'
14.0 ft.						
16.0 ft.						

Boring Log

Project No. 99018.14 Page 1 of 1 Test No. BH4 (SE corner)
Project Name Speedy's Cleaners BCP
Client
Inspector Morton
Date Started 7/13/05 Completed 7/13/05

Depth Below Surface	Blows Per Six inches 0 to 6	6 to 12	12 to 18	18 to 24	PID	Soil and Rock Classifications / Remarks
		6			0	asphalt, broken stone, f dry brn SAND
2.0 ft.			7	7		
	9	10			15-20 ppm	f brn SILT w/ tr f SAND
4.0 ft.			8	8		
	5	6			<5 ppm	same
6.0 ft.			5	5		
	7	18			20 ppm	wet grey SILT w/ tr f sand & gravel
8.0 ft.			17	8		
	3	2			0	same
10.0 ft.			2	2		
	6	6			20 ppm	saturated f SAND w/ tr silt & gravel
12.0 ft.			10	7		
	15	14				same, over dry till (silt/clay w/ tr gravel)
14.0 ft.			15	30		
16.0 ft.						

Boring Log

Project No. 99018.14 Page 1 of 1 Test No. Sub Slab - 1
Project Name Speedy's Cleaners BCP
Client Passero Associates
Inspector Morton
Date Started 10-26-05 Completed 10-26-05

Depth Below Surface	Blows Per Six inches 0 to 6	6 to 12	12 to 18	18 to 24	PID	Soil and Rock Classifications / Remarks
						Driving 4 foot sleeves
2.0 ft.					0	f- m- c SAND w/ tr gravel
4.0 ft.					0	
6.0 ft.					0	
8.0 ft.					0	
9.8' 10.0 ft.					180	
12.0 ft.						
14.0 ft.						
16.0 ft.						

Boring Log

Project No. 99018.14 Page 1 of 1 Test No. Sub Slab - 2
Project Name Speedy's Cleaners BCP
Client Passero Associates
Date Started 10-26-05 Completed 10-26-05 Inspector Morton

Depth Below Surface	Blows Per Six inches 0 to 6	6 to 12	12 to 18	18 to 24	PID	Soil and Rock Classifications / Remarks
						f-m-c SAND
2.0 ft.					15	
4.0 ft.						
6.0 ft.					60	
8.0 ft.						
10.0 ft.						
12.0 ft.						
14.0 ft.						
16.0 ft.						

Boring Log

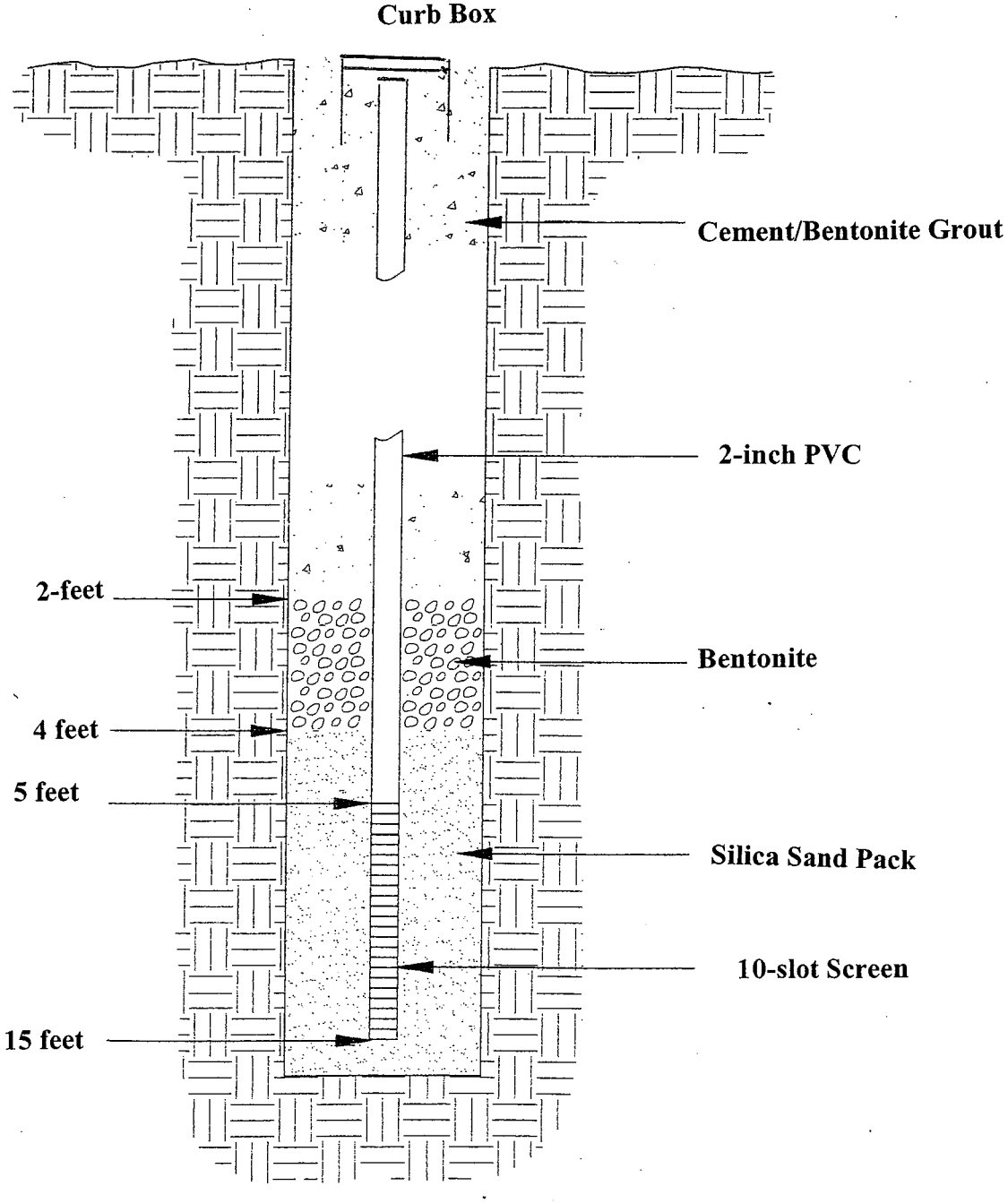
Project No. 99018.14 Page 1 of 1 Test No. Sub Slab - 3
Project Name Speedy's Cleaners BCP
Client Passero Associates
Date Started 10-26-05 Completed 10-26-05 Inspector Morton

Depth Below Surface	Blows Per Six inches 0 to 6	6 to 12	12 to 18	18 to 24	PID	Soil and Rock Classifications / Remarks
						f-m-c SAND
2.0 ft.					15	
4.0 ft.						
6.0 ft.					120	
8.0 ft.						
10.0 ft.						
12.0 ft.						
14.0 ft.						
16.0 ft.						

PASSERO ASSOCIATES, P.C.
ARCHITECTS–ENGINEERS–SURVEYORS
100 LIBERTY POLE WAY ROCHESTER,N.Y.
716–325–1000 14604

Speedy's Cleaners BCP
NYSDEC Site #C828109

Schematic Monitoring Well Diagram



APPENDIX 7
Soils Analytical Data

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
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.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH1-6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305

Sample wt/vol: 5.02 (g/mL) G Lab File ID: Q6639.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: not dec. 29 Heated Purge: Y Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene chloride	45	
67-64-1	Acetone	310	E
75-15-0	Carbon Disulfide	5	J
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	120	
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	10	J
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
108-88-3	Toluene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	6	J
100-42-5	Styrene	14	U
1330-20-7	Total Xylenes	17	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH1-6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305

Sample wt/vol: 5.02 (g/mL) G Lab File ID: Q6639.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: not dec. 29 Heated Purge: Y Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
156-60-5	trans-1,2-Dichloroethene	14	U
75-71-8	Dichlorodifluoromethane	14	U
75-69-4	Trichlorofluoromethane	14	U
79-20-9	Methyl acetate	14	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	14	U
110-82-7	Cyclohexane	42	
108-87-2	Methylcyclohexane	200	
106-93-4	1,2-Dibromoethane	14	U
98-82-8	Isopropylbenzene	120	
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: BH1-6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305

Sample wt/vol: 5.02 (g/mL) G Lab File ID: Q6639.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: not dec. 29.4 Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	Compound Name	RT	Est. Conc.	Q
1.		UNKNOWN	8.43	400	J
2.		UNKNOWN	9.00	470	J
3.		UNKNOWN	9.52	550	J
4.	526-73-8	1,2,3-TRIMETHYLBENZENE	9.72	720	JN
5.		UNKNOWN	9.93	400	J
6.	934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	10.24	630	JN
7.		UNKNOWN	10.48	520	J
8.		UNKNOWN	10.66	1300	J
9.	95-93-2	1,2,4,5-TETRAMETHYLBENZENE	10.91	970	JN
10.		UNKNOWN	11.26	520	J

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304

Sample wt/vol: 5.15 (g/mL) G Lab File ID: Q6638.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 16 Heated Purge: Y Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene chloride	16	
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	500	E
108-88-3	Toluene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Total Xylenes	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
156-59-2	cis-1,2-Dichloroethene	3	J

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304

Sample wt/vol: 5.15 (g/mL) G Lab File ID: Q6638.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 16 Heated Purge: Y Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
156-60-5	trans-1,2-Dichloroethene	12	U
75-71-8	Dichlorodifluoromethane	12	U
75-69-4	Trichlorofluoromethane	12	U
79-20-9	Methyl acetate	12	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	12	U
110-82-7	Cyclohexane	12	U
108-87-2	Methylcyclohexane	12	U
106-93-4	1,2-Dibromoethane	12	U
98-82-8	Isopropylbenzene	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304

Sample wt/vol: 5.15 (g/mL) G Lab File ID: Q6638.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 16.4 Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	110-54-3	HEXANE	3.95	15	BJN

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304DL

Sample wt/vol: 1.00 (g/mL) G Lab File ID: Q6654.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 16 Heated Purge: Y Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	60	U
74-83-9	Bromomethane	60	U
75-01-4	Vinyl chloride	60	U
75-00-3	Chloroethane	60	U
75-09-2	Methylene chloride	43	DJ
67-64-1	Acetone	60	U
75-15-0	Carbon Disulfide	60	U
75-35-4	1,1-Dichloroethene	60	U
75-34-3	1,1-Dichloroethane	60	U
67-66-3	Chloroform	60	U
107-06-2	1,2-Dichloroethane	60	U
78-93-3	2-Butanone	60	U
71-55-6	1,1,1-Trichloroethane	60	U
56-23-5	Carbon Tetrachloride	60	U
75-27-4	Bromodichloromethane	60	U
78-87-5	1,2-Dichloropropane	60	U
10061-01-5	cis-1,3-Dichloropropene	60	U
79-01-6	Trichloroethene	60	U
124-48-1	Dibromochloromethane	60	U
79-00-5	1,1,2-Trichloroethane	60	U
71-43-2	Benzene	60	U
10061-02-6	trans-1,3-Dichloropropene	60	U
75-25-2	Bromoform	60	U
108-10-1	4-Methyl-2-pentanone	60	U
591-78-6	2-Hexanone	60	U
127-18-4	Tetrachloroethene	670	D
108-88-3	Toluene	60	U
79-34-5	1,1,2,2-Tetrachloroethane	60	U
108-90-7	Chlorobenzene	60	U
100-41-4	Ethylbenzene	60	U
100-42-5	Styrene	60	U
1330-20-7	Total Xylenes	60	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	60	U
156-59-2	cis-1,2-Dichloroethene	60	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304DL

Sample wt/vol: 1.00 (g/mL) G Lab File ID: Q6654.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 16 Heated Purge: Y Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
156-60-5	trans-1,2-Dichloroethene	60	U
75-71-8	Dichlorodifluoromethane	60	U
75-69-4	Trichlorofluoromethane	60	U
79-20-9	Methyl acetate	60	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	60	U
110-82-7	Cyclohexane	60	U
108-87-2	Methylcyclohexane	60	U
106-93-4	1,2-Dibromoethane	60	U
98-82-8	Isopropylbenzene	60	U
541-73-1	1,3-Dichlorobenzene	60	U
106-46-7	1,4-Dichlorobenzene	60	U
95-50-1	1,2-Dichlorobenzene	60	U
96-12-8	1,2-Dibromo-3-chloropropane	60	U
120-82-1	1,2,4-Trichlorobenzene	60	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304DL

Sample wt/vol: 1.00 (g/mL) G Lab File ID: Q6654.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 16.4 Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	3.95	52	BJ

30\1369

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH3-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742302

Sample wt/vol: 5.04 (g/mL) G Lab File ID: Q6637.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 15 Heated Purge: Y Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene chloride	21	
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	5	J
108-88-3	Toluene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Total Xylenes	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH3-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742302

Sample wt/vol: 5.04 (g/mL) G Lab File ID: Q6637.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 15 Heated Purge: Y Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
156-60-5	trans-1,2-Dichloroethene	12	U
75-71-8	Dichlorodifluoromethane	12	U
75-69-4	Trichlorofluoromethane	12	U
79-20-9	Methyl acetate	12	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	12	U
110-82-7	Cyclohexane	12	U
108-87-2	Methylcyclohexane	12	U
106-93-4	1,2-Dibromoethane	12	U
98-82-8	Isopropylbenzene	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BH3-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742302

Sample wt/vol: 5.04 (g/mL) G Lab File ID: Q6637.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 14.7 Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 110-54-3	HEXANE	3.95	16	BJN

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH4-8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742301

Sample wt/vol: 5.08 (g/mL) G Lab File ID: Q6636.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 23 Heated Purge: Y Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene chloride	25	
67-64-1	Acetone	58	
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	10	J
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	4	J
108-88-3	Toluene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH4-8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742301

Sample wt/vol: 5.08 (g/mL) G Lab File ID: Q6636.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 23 Heated Purge: Y Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
156-60-5	trans-1,2-Dichloroethene	13	U
75-71-8	Dichlorodifluoromethane	13	U
75-69-4	Trichlorofluoromethane	13	U
79-20-9	Methyl acetate	13	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U
106-93-4	1,2-Dibromoethane	13	U
98-82-8	Isopropylbenzene	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEDDY - ASP00 EPA VOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: BH4-8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742301

Sample wt/vol: 5.08 (g/mL) G Lab File ID: Q6636.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: not dec. 23.1 Date Analyzed: 07/23/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	3.95	16	BJ

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH1-6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305

Sample wt/vol: 30.14 (g/mL) G Lab File ID: V11000.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	790	U
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl) ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390	U
98-86-2	Acetophenone	790	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy) methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	2700	
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	790	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	15000	E
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	960	U
92-52-4	Biphenyl	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	960	U
131-11-3	Dimethyl phthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	230	J
99-09-2	3-Nitroaniline	960	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH1-6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305

Sample wt/vol: 30.14 (g/mL) G Lab File ID: V11000.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	340	J
51-28-5	2,4-Dinitrophenol	960	U
100-02-7	4-Nitrophenol	960	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethyl phthalate	390	U
86-73-7	Fluorene	1300	
7005-72-3	4-Chlorophenyl phenyl ether	390	U
100-01-6	4-Nitroaniline	960	U
534-52-1	4,6-Dinitro-2-methylphenol	960	U
86-30-6	N-nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	790	U
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	2000	
120-12-7	Anthracene	350	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-butyl phthalate	390	U
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	420	
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	38	J
218-01-9	Chrysene	57	J
117-81-7	Bis(2-ethylhexyl) phthalate	230	BJ
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	32	J
207-08-9	Benzo(k)fluoranthene	13	J
50-32-8	Benzo(a)pyrene	25	J
193-39-5	Indeno(1,2,3-cd)pyrene	17	J
53-70-3	Dibenzo(a,h)anthracene	390	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH1-6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305

Sample wt/vol: 30.14 (g/mL) G Lab File ID: V11000.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(ghi)perylene	18	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: BH1-6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305

Sample wt/vol: 30.14 (g/mL) G Lab File ID: V11000.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: 16.7 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 28 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	Compound Name	RT	Est. Conc.	Q
1.		SUSPECTED ALDOL COND.PRODUCT	3.89	2900	ABJ
2.		UNKNOWN	7.93	920	J
3.		UNKNOWN HYDROCARBON	8.10	1500	J
4.	53172-84-2	BENZENE, (1-METHYL-1-BUTENYL)	8.40	1100	JN
5.		UNKNOWN	8.75	990	J
6.		UNKNOWN	8.81	950	J
7.		UNKNOWN HYDROCARBON	9.06	2300	J
8.	90-12-0	1-METHYLNAPHTHALENE	9.54	2600	JN
9.		TETRAHYDRO-NAPHTHALENE ISOME	9.58	1000	J
10.		UNKNOWN HYDROCARBON	9.74	1300	J
11.		TETRAHYDRO-NAPHTHALENE ISOME	10.18	1600	J
12.		DIMETHYLNAPHTHALENE ISOMER	10.23	2000	J
13.		DIMETHYLNAPHTHALENE ISOMER	10.34	3300	J
14.		DIMETHYLNAPHTHALENE ISOMER	10.45	4200	J
15.		DIMETHYLNAPHTHALENE ISOMER	10.49	3500	J
16.		DIMETHYLNAPHTHALENE ISOMER	10.61	1800	J
17.		UNKNOWN HYDROCARBON	10.64	4100	J
18.		UNKNOWN HYDROCARBON	10.80	1900	J
19.		TRIMETHYLNAPHTHALENE ISOMER	11.12	2200	J
20.		TRIMETHYLNAPHTHALENE ISOMER	11.17	1000	J
21.		TRIMETHYLNAPHTHALENE ISOMER	11.27	1800	J
22.		TRIMETHYLNAPHTHALENE ISOMER	11.33	2900	J
23.		TRIMETHYLNAPHTHALENE ISOMER	11.43	2500	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BH1-6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305

Sample wt/vol: 30.14 (g/mL) G Lab File ID: V11000.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: 16.7 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 28 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
24.	TRIMETHYLNAPHTHALENE ISOMER	11.47	1000	J
25.	TRIMETHYLNAPHTHALENE ISOMER	11.56	1200	J
26.	UNKNOWN	11.82	1500	J
27.	UNKNOWN	14.35	880	J
28. 3674-73-5	2,3,5-TRIMETHYLPHENANTHRENE	14.58	900	JN

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH1-6-8 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305DL

Sample wt/vol: 30.14 (g/mL) G Lab File ID: V11010.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/08/2005

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	7900	U
108-95-2	Phenol	3900	U
111-44-4	Bis(2-chloroethyl) ether	3900	U
95-57-8	2-Chlorophenol	3900	U
95-48-7	2-Methylphenol	3900	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3900	U
98-86-2	Acetophenone	7900	U
106-44-5	4-Methylphenol	3900	U
621-64-7	N-Nitroso-Di-n-propylamine	3900	U
67-72-1	Hexachloroethane	3900	U
98-95-3	Nitrobenzene	3900	U
78-59-1	Isophorone	3900	U
88-75-5	2-Nitrophenol	3900	U
105-67-9	2,4-Dimethylphenol	3900	U
111-91-1	Bis(2-chloroethoxy) methane	3900	U
120-83-2	2,4-Dichlorophenol	3900	U
91-20-3	Naphthalene	2400	DJ
106-47-8	4-Chloroaniline	3900	U
87-68-3	Hexachlorobutadiene	3900	U
105-60-2	Caprolactam	7900	U
59-50-7	4-Chloro-3-methylphenol	3900	U
91-57-6	2-Methylnaphthalene	11000	D
77-47-4	Hexachlorocyclopentadiene	3900	U
88-06-2	2,4,6-Trichlorophenol	3900	U
95-95-4	2,4,5-Trichlorophenol	9600	U
92-52-4	Biphenyl	7900	U
91-58-7	2-Chloronaphthalene	3900	U
88-74-4	2-Nitroaniline	9600	U
131-11-3	Dimethyl phthalate	3900	U
606-20-2	2,6-Dinitrotoluene	3900	U
208-96-8	Acenaphthylene	360	DJ
99-09-2	3-Nitroaniline	9600	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH1-6-8 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305DL

Sample wt/vol: 30.14 (g/mL) G Lab File ID: V11010.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/08/2005

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	3900	U
51-28-5	2,4-Dinitrophenol	9600	U
100-02-7	4-Nitrophenol	9600	U
132-64-9	Dibenzofuran	1800	DJ
121-14-2	2,4-Dinitrotoluene	3900	U
84-66-2	Diethyl phthalate	3900	U
86-73-7	Fluorene	1400	DJ
7005-72-3	4-Chlorophenyl phenyl ether	3900	U
100-01-6	4-Nitroaniline	9600	U
534-52-1	4,6-Dinitro-2-methylphenol	9600	U
86-30-6	N-nitrosodiphenylamine	3900	U
101-55-3	4-Bromophenyl phenyl ether	3900	U
118-74-1	Hexachlorobenzene	3900	U
1912-24-9	Atrazine	7900	U
87-86-5	Pentachlorophenol	9600	U
85-01-8	Phenanthrene	2600	DJ
120-12-7	Anthracene	340	DJ
86-74-8	Carbazole	3900	U
84-74-2	Di-n-butyl phthalate	3900	U
206-44-0	Fluoranthene	170	DJ
129-00-0	Pyrene	430	DJ
85-68-7	Butyl benzyl phthalate	3900	U
91-94-1	3,3'-Dichlorobenzidine	3900	U
56-55-3	Benzo(a)anthracene	3900	U
218-01-9	Chrysene	3900	U
117-81-7	Bis(2-ethylhexyl) phthalate	270	BDJ
117-84-0	Di-n-octyl phthalate	3900	U
205-99-2	Benzo(b)fluoranthene	3900	U
207-08-9	Benzo(k)fluoranthene	3900	U
50-32-8	Benzo(a)pyrene	3900	U
193-39-5	Indeno(1,2,3-cd)pyrene	3900	U
53-70-3	Dibenzo(a,h)anthracene	3900	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH1-6-8 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305DL

Sample wt/vol: 30.14 (g/mL) G Lab File ID: V11010.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/08/2005

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(ghi)perylene	3900	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: BH1-6-8 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305DL

Sample wt/vol: 30.14 (g/mL) G Lab File ID: V11010.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: 16.7 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/08/2005

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 26 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	SUSPECTED ALDOL COND.PRODUCè	3.85	4800	ABJ
2.	UNKNOWN	7.92	2900	J
3.	UNKNOWN	8.08	5100	J
4.	UNKNOWN	8.39	2800	J
5. 6750-34-1	3,7,1-TRIMETHYL-1-DODECANOL	8.63	2400	JN
6.	UNKNOWN	8.74	2600	J
7.	UNKNOWN	8.80	3000	J
8.	UNKNOWN HYDROCARBON	8.91	2800	J
9.	UNKNOWN HYDROCARBON	9.03	5400	J
10.	TETRAHYDRONAPHTHALENE ISOMER	9.07	2600	J
11.	TETRAHYDRONAPHTHALENE ISOMER	9.30	2600	J
12. 90-12-0	1-METHYLNAPHTHALENE	9.51	7100	JN
13.	UNKNOWN HYDROCARBON	9.71	2800	J
14.	TETRAHYDRONAPHTHALENE ISOMER	10.15	5500	J
15.	DIMETHYLNAPHTHALENE ISOMER	10.20	6600	J
16.	DIMETHYLNAPHTHALENE ISOMER	10.30	4500	J
17.	DIMETHYLNAPHTHALENE ISOMER	10.41	10000	J
18.	DIMETHYLNAPHTHALENE ISOMER	10.45	8600	J
19.	DIMETHYLNAPHTHALENE ISOMER	10.57	4200	J
20.	UNKNOWN	10.77	3700	J
21.	TRIMETHYLNAPHTHALENE ISOMER	11.08	5800	J
22.	TRIMETHYLNAPHTHALENE ISOMER	11.15	2700	J
23.	TRIMETHYLNAPHTHALENE ISOMER	11.23	5600	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BH1-6-8 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305DL

Sample wt/vol: 30.14 (g/mL) G Lab File ID: V11010.RR

Level: (low/med) LOW Date Samp/Recv: 07/14/2005 07/15/2005

% Moisture: 16.7 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/08/2005

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 26 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
24.	TRIMETHYLNAPHTHALENE ISOMER	11.29	4800	J
25.	TRIMETHYLNAPHTHALENE ISOMER	11.40	5200	J
26.	UNKNOWN	11.79	2800	J

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304

Sample wt/vol: 30.36 (g/mL) G Lab File ID: V10999.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 13 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	740	U
108-95-2	Phenol	370	U
111-44-4	Bis(2-chloroethyl) ether	370	U
95-57-8	2-Chlorophenol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	370	U
98-86-2	Acetophenone	740	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	Bis(2-chloroethoxy) methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
105-60-2	Caprolactam	740	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	900	U
92-52-4	Biphenyl	740	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethyl phthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	900	U

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304

Sample wt/vol: 30.36 (g/mL) G Lab File ID: V10999.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 13 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	900	U
100-02-7	4-Nitrophenol	900	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethyl phthalate	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl phenyl ether	370	U
100-01-6	4-Nitroaniline	900	U
534-52-1	4,6-Dinitro-2-methylphenol	900	U
86-30-6	N-nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl phenyl ether	370	U
118-74-1	Hexachlorobenzene	370	U
1912-24-9	Atrazine	740	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	92	J
120-12-7	Anthracene	11	J
86-74-8	Carbazole	12	J
84-74-2	Di-n-butyl phthalate	370	U
206-44-0	Fluoranthene	200	J
129-00-0	Pyrene	190	J
85-68-7	Butyl benzyl phthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	96	J
218-01-9	Chrysene	140	J
117-81-7	Bis(2-ethylhexyl) phthalate	140	BJ
117-84-0	Di-n-octyl phthalate	370	U
205-99-2	Benzo(b)fluoranthene	190	J
207-08-9	Benzo(k)fluoranthene	76	J
50-32-8	Benzo(a)pyrene	130	J
193-39-5	Indeno(1,2,3-cd)pyrene	140	J
53-70-3	Dibenzo(a,h)anthracene	40	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304

Sample wt/vol: 30.36 (g/mL) G Lab File ID: V10999.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 13 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(ghi)perylene	160	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304

Sample wt/vol: 30.36 (g/mL) G Lab File ID: V10999.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 12.5 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	3.02	520	J
2.	UNKNOWN	3.62	740	J
3.	SUSPECTED ALDOL COND.PRODUCT	3.93	13000	ABJ
4.	UNKNOWN ACID	16.12	180	BJ

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH3-4-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742303

Sample wt/vol: 30.19 (g/mL) G Lab File ID: V10996.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	790	U
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl) ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390	U
98-86-2	Acetophenone	790	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy) methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	790	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	950	U
92-52-4	Biphenyl	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	950	U
131-11-3	Dimethyl phthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	950	U

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH3-4-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742303

Sample wt/vol: 30.19 (g/mL) G Lab File ID: V10996.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	950	U
100-02-7	4-Nitrophenol	950	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethyl phthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
100-01-6	4-Nitroaniline	950	U
534-52-1	4,6-Dinitro-2-methylphenol	950	U
86-30-6	N-nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	790	U
87-86-5	Pentachlorophenol	950	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butyl phthalate	14	J
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-ethylhexyl) phthalate	37	BJ
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

BH3-4-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742303

Sample wt/vol: 30.19 (g/mL) G Lab File ID: V10996.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(ghi)perylene	390	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BH3-4-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742303

Sample wt/vol: 30.19 (g/mL) G Lab File ID: V10996.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 16.6 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	3.60	150	J
2.	SUSPECTED ALDOL COND.PRODUCT	3.91	9100	ABJ
3.	UNKNOWN	15.78	690	J
4.	UNKNOWN	16.12	220	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH4-8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742301

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V10995.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 21 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	820	U
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl) ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	820	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy) methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	21	J
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	820	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	23	J
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	Biphenyl	820	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethyl phthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	69	J
99-09-2	3-Nitroaniline	1000	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH4-8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742301

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V10995.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 21 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	37	J
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	62	J
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethyl phthalate	410	U
86-73-7	Fluorene	110	J
7005-72-3	4-Chlorophenyl phenyl ether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	820	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	620	
120-12-7	Anthracene	140	J
86-74-8	Carbazole	82	J
84-74-2	Di-n-butyl phthalate	20	J
206-44-0	Fluoranthene	810	
129-00-0	Pyrene	760	
85-68-7	Butyl benzyl phthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	510	
218-01-9	Chrysene	510	
117-81-7	Bis(2-ethylhexyl) phthalate	38	BJ
117-84-0	Di-n-octyl phthalate	410	U
205-99-2	Benzo(b)fluoranthene	490	
207-08-9	Benzo(k)fluoranthene	190	J
50-32-8	Benzo(a)pyrene	400	J
193-39-5	Indeno(1,2,3-cd)pyrene	270	J
53-70-3	Dibenzo(a,h)anthracene	87	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.: BH4-8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742301

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V10995.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 21 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(ghi)perylene	270	J

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BH4-8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742301

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V10995.RR

Level: (low/med) LOW Date Samp/Recv: 07/13/2005 07/15/2005

% Moisture: 20.8 decanted: (Y/N) N Date Extracted: 07/19/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 08/06/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 21 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	137-43-9	UNKNOWN	3.03	980	JN
2.		UNKNOWN	3.61	1100	J
3.		SUSPECTED ALDOL COND.PRODUCT	3.91	7300	ABJ
4.		UNKNOWN PAH DER.	13.57	110	J
5.		UNKNOWN PAH DER.	14.12	99	J
6.		UNKNOWN PAH DER.	14.90	91	J
7.		UNKNOWN	15.50	150	J
8.		UNKNOWN	16.12	170	J
9.		UNKNOWN	16.56	300	J
10.		UNKNOWN	17.15	150	J
11.		UNKNOWN	17.59	190	J
12.		UNKNOWN PAH DER.	17.92	93	J
13.		UNKNOWN PAH DER.	17.96	110	J
14.		UNKNOWN	18.17	660	J
15.		UNKNOWN PAH DER.	18.24	200	J
16.		UNKNOWN	18.43	91	J
17.		UNKNOWN	18.54	400	J
18.		UNKNOWN	18.70	380	J
19.		UNKNOWN	19.35	180	J
20.		UNKNOWN	19.45	280	J
21.		UNKNOWN	21.29	160	J

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00 - PESTICIDES/AROCLORS - S
ANALYSIS DATA SHEET

Client No.

BH1-6-8

Lab Name: SIL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305

Sample wt/vol: 30.80 (g/mL) G Lab File ID: 7A15103.TX0

% Moisture: 17 decanted: (Y/N) N Date Samp/Recv: 07/14/2005 07/15/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 07/18/2005

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/28/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.80 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan Sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor 1016	39	U
11104-28-2	Aroclor 1221	79	U
11141-16-5	Aroclor 1232	39	U
53469-21-9	Aroclor 1242	39	U
12672-29-6	Aroclor 1248	39	U
11097-69-1	Aroclor 1254	39	U
11096-82-5	Aroclor 1260	39	U

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00 - PESTICIDES/AROCLORS - S
ANALYSIS DATA SHEET

Client No.

BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304

Sample wt/vol: 30.80 (g/mL) G Lab File ID: 7A15102.TX0

% Moisture: 12 decanted: (Y/N) N Date Samp/Recv: 07/13/2005 07/15/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 07/18/2005

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/28/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.20 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan Sulfate	3.7	U
50-29-3	4,4'-DDT	3.7	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	0.87	J
5103-74-2	gamma-Chlordane	0.52	JP
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor 1016	37	U
11104-28-2	Aroclor 1221	74	U
11141-16-5	Aroclor 1232	37	U
53469-21-9	Aroclor 1242	37	U
12672-29-6	Aroclor 1248	37	U
11097-69-1	Aroclor 1254	37	U
11096-82-5	Aroclor 1260	37	U

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00 - PESTICIDES/AROCLORS - S
ANALYSIS DATA SHEET

Client No.: BH3-4-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742303

Sample wt/vol: 30.50 (g/mL) G Lab File ID: 7A15101.TX0

% Moisture: 17 decanted: (Y/N) N Date Samp/Recv: 07/13/2005 07/15/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 07/18/2005

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/28/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.40 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan Sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor 1016	39	U
11104-28-2	Aroclor 1221	79	U
11141-16-5	Aroclor 1232	39	U
53469-21-9	Aroclor 1242	39	U
12672-29-6	Aroclor 1248	39	U
11097-69-1	Aroclor 1254	39	U
11096-82-5	Aroclor 1260	39	U

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - ASP00 - PESTICIDES/AROCLORS - S
ANALYSIS DATA SHEET

Client No.

BH4-8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742301

Sample wt/vol: 30.90 (g/mL) G Lab File ID: 7A15100.TX0

% Moisture: 21 decanted: (Y/N) N Date Samp/Recv: 07/13/2005 07/15/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 07/18/2005

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/28/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.90 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	1.0	JP
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	0.54	J
1031-07-8	Endosulfan Sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	0.89	JP
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor 1016	41	U
11104-28-2	Aroclor 1221	82	U
11141-16-5	Aroclor 1232	41	U
53469-21-9	Aroclor 1242	41	U
12672-29-6	Aroclor 1248	41	U
11097-69-1	Aroclor 1254	41	U
11096-82-5	Aroclor 1260	41	U

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - S
ANALYSIS DATA SHEET

Client No.

BH1-6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742305

Sample wt/vol: 30.29 (g/mL) G Lab File ID: 24A18172.TX0

% Moisture: 17 decanted: (Y/N) N Date Samp/Recv: 07/14/2005 07/15/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 07/20/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/22/2005

Injection Volume: 1.00 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
64475-85-0	Mineral Spirits	120	U
----------	Other-1	1500	

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - S
ANALYSIS DATA SHEET

Client No.

BH2-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742304

Sample wt/vol: 30.40 (g/mL) G Lab File ID: 24A18138.TX0

% Moisture: 13 decanted: (Y/N) N Date Samp/Recv: 07/13/2005 07/15/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 07/20/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/21/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
64475-85-0	Mineral Spirits	11	U
----------	Other-1	110	U

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - S
ANALYSIS DATA SHEET

Client No.

BH3-2-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742302

Sample wt/vol: 30.32 (g/mL) G Lab File ID: 24A18137.TX0

% Moisture: 17 decanted: (Y/N) N Date Samp/Recv: 07/13/2005 07/15/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 07/20/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/21/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
64475-85-0	Mineral Spirits	12	U
----------	Other-1	120	U

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COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - S
ANALYSIS DATA SHEET

Client No.: BH4-8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5742301

Sample wt/vol: 30.07 (g/mL) G Lab File ID: 24A18136.TX0

% Moisture: 21 decanted: (Y/N) N Date Samp/Recv: 07/13/2005 07/15/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 07/20/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/21/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
64475-85-0	Mineral Spirits	7.4	J
----------	Other-1	130	U

STL BUFFALO

COD Sales

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

BH1-6-8

Contract: NY04-471

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A05-7423

Matrix (soil/water): SOIL Lab Sample ID: AD540694

Level (low/med): LOW Date Received: 7/15/2005

% Solids: 83

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7280		E	P
7440-36-0	Antimony	0.43	U	N	P
7440-38-2	Arsenic	2.5		N*	P
7440-39-3	Barium	81.6			P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium	0.55	B		P
7440-70-2	Calcium	5160		*	P
7440-47-3	Chromium	10.6			P
7440-48-4	Cobalt	4.4	B	E	P
7440-50-8	Copper	16.9		N*	P
7439-89-6	Iron	11100		E	P
7439-92-1	Lead	14.3		E*	P
7439-95-4	Magnesium	2270			P
7439-96-5	Manganese	551		N*	P
7440-02-0	Nickel	9.1			P
7440-09-7	Potassium	569		E	P
7782-49-2	Selenium	0.94	B		P
7440-22-4	Silver	0.14	U		P
7439-97-6	Mercury	0.055	B		CV
7440-23-5	Sodium	422	B		P
7440-28-0	Thallium	0.53	U		P
7440-62-2	Vanadium	13.5		E	P
7440-66-6	Zinc	55.9		NE*	P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOIL

Color After: BROWN Clarity After: CLDY/FI Artifacts:

Comments:

STL BUFFALO

COD Sales

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

BH2-2-6

Contract: NY04-471

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A05-7423

Matrix (soil/water): SOIL Lab Sample ID: AD540693

Level (low/med): LOW Date Received: 7/15/2005

% Solids: 88

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6030		E	P
7440-36-0	Antimony	0.42	U	N	P
7440-38-2	Arsenic	2.6		N*	P
7440-39-3	Barium	29.9			P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.28	B		P
7440-70-2	Calcium	36200		*	P
7440-47-3	Chromium	8.0			P
7440-48-4	Cobalt	4.4	B	E	P
7440-50-8	Copper	11.0		N*	P
7439-89-6	Iron	10900		E	P
7439-92-1	Lead	4.0		E*	P
7439-95-4	Magnesium	9420			P
7439-96-5	Manganese	425		N*	P
7440-02-0	Nickel	9.6			P
7440-09-7	Potassium	861		E	P
7782-49-2	Selenium	0.71	U		P
7440-22-4	Silver	0.14	U		P
7439-97-6	Mercury	0.019	U		CV
7440-23-5	Sodium	242	B		P
7440-28-0	Thallium	0.52	U		P
7440-62-2	Vanadium	13.0		E	P
7440-66-6	Zinc	23.6		NE*	P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOIL

Color After: BROWN Clarity After: CLDY/FI Artifacts:

Comments:

COD Sales
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: BH3-4-6

Contract: NY04-471

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A05-7423

Matrix (soil/water): SOIL Lab Sample ID: AD540692

Level (low/med): LOW Date Received: 7/15/2005

% Solids: 83

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6120		E	P
7440-36-0	Antimony	0.47	U	N	P
7440-38-2	Arsenic	2.4		N*	P
7440-39-3	Barium	28.2			P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.21	B		P
7440-70-2	Calcium	10300		*	P
7440-47-3	Chromium	7.6			P
7440-48-4	Cobalt	5.0	B	E	P
7440-50-8	Copper	9.5		N*	P
7439-89-6	Iron	10900		E	P
7439-92-1	Lead	3.4		E*	P
7439-95-4	Magnesium	3710			P
7439-96-5	Manganese	388		N*	P
7440-02-0	Nickel	10.5			P
7440-09-7	Potassium	882		E	P
7782-49-2	Selenium	0.79	U		P
7440-22-4	Silver	0.15	U		P
7439-97-6	Mercury	0.024	U		CV
7440-23-5	Sodium	120	B		P
7440-28-0	Thallium	0.58	U		P
7440-62-2	Vanadium	12.2		E	P
7440-66-6	Zinc	24.2		NE*	P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOIL

Color After: BROWN Clarity After: CLDY/FI Artifacts:

Comments:

STL BUFFALO

COD Sales

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

BH4-8-10

Contract: NY04-471

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A05-7423

Matrix (soil/water): SOIL Lab Sample ID: AD540688

Level (low/med): LOW Date Received: 7/15/2005

% Solids: 79

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7290		E	P
7440-36-0	Antimony	0.47	U	N	P
7440-38-2	Arsenic	4.7		N*	P
7440-39-3	Barium	53.4			P
7440-41-7	Beryllium	0.34	B		P
7440-43-9	Cadmium	0.47	B		P
7440-70-2	Calcium	11600		*	P
7440-47-3	Chromium	9.3			P
7440-48-4	Cobalt	4.7	B	E	P
7440-50-8	Copper	22.1		N*	P
7439-89-6	Iron	10700		E	P
7439-92-1	Lead	55.7		E*	P
7439-95-4	Magnesium	5370			P
7439-96-5	Manganese	327		N*	P
7440-02-0	Nickel	10.3			P
7440-09-7	Potassium	814		E	P
7782-49-2	Selenium	0.79	U		P
7440-22-4	Silver	0.15	U		P
7439-97-6	Mercury	0.022	U		CV
7440-23-5	Sodium	269	B		P
7440-28-0	Thallium	0.58	U		P
7440-62-2	Vanadium	14.2		E	P
7440-66-6	Zinc	86.9		NE*	P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOIL

Color After: BROWN Clarity After: CLDY/FI Artifacts:

Comments:

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STL Buffalo
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Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-C222

STL Project#: NY5A9486
Site Name: Speedy's Cleaners Brownfield Cleanup
Task: SPEEDY'S CLEANERS BCP, PITTSFORD, NY

Mr. Pete Morton
Passero Associates
100 Liberty Pole Way
Rochester, NY 14604

STL Buffalo

Ryan T. VanDette
Project Manager

11/15/2005

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

18/656

Client No.

SUB SLAB 1 8-9

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201

Sample wt/vol: 4.00 (g/mL) G Lab File ID: Q8612.RR

Level: (low/med) MED Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: not dec. 14 Heated Purge: N Date Analyzed: 11/03/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100.00 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1400	U
74-83-9	Bromomethane	1400	U
75-01-4	Vinyl chloride	190	J
75-00-3	Chloroethane	1400	U
75-09-2	Methylene chloride	1400	U
67-64-1	Acetone	1400	U
75-15-0	Carbon Disulfide	1400	U
75-35-4	1,1-Dichloroethene	1400	U
75-34-3	1,1-Dichloroethane	1400	U
67-66-3	Chloroform	1400	U
107-06-2	1,2-Dichloroethane	1400	U
78-93-3	2-Butanone	1400	U
71-55-6	1,1,1-Trichloroethane	1400	U
56-23-5	Carbon Tetrachloride	1400	U
75-27-4	Bromodichloromethane	1400	U
78-87-5	1,2-Dichloropropane	1400	U
10061-01-5	cis-1,3-Dichloropropene	1400	U
79-01-6	Trichloroethene	1400	U
124-48-1	Dibromochloromethane	1400	U
79-00-5	1,1,2-Trichloroethane	1400	U
71-43-2	Benzene	1400	U
10061-02-6	trans-1,3-Dichloropropene	1400	U
75-25-2	Bromoform	1400	U
108-10-1	4-Methyl-2-pentanone	1400	U
591-78-6	2-Hexanone	1400	U
127-18-4	Tetrachloroethene	1400	U
108-88-3	Toluene	1400	U
79-34-5	1,1,2,2-Tetrachloroethane	1400	U
108-90-7	Chlorobenzene	1400	U
100-41-4	Ethylbenzene	1400	U
100-42-5	Styrene	1400	U
1330-20-7	Total Xylenes	1400	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1400	U
156-59-2	cis-1,2-Dichloroethene	4600	

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.: SUB SLAB 1 8-9

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201

Sample wt/vol: 4.00 (g/mL) G Lab File ID: Q8612.RR

Level: (low/med) MED Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: not dec. 14 Heated Purge: N Date Analyzed: 11/03/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100.00 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
156-60-5	trans-1,2-Dichloroethene	320	J
75-71-8	Dichlorodifluoromethane	1400	U
75-69-4	Trichlorofluoromethane	1400	U
79-20-9	Methyl acetate	1400	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	1400	U
110-82-7	Cyclohexane	1400	U
108-87-2	Methylcyclohexane	1400	U
106-93-4	1,2-Dibromoethane	1400	U
98-82-8	Isopropylbenzene	1400	U
541-73-1	1,3-Dichlorobenzene	1400	U
106-46-7	1,4-Dichlorobenzene	1400	U
95-50-1	1,2-Dichlorobenzene	1400	U
96-12-8	1,2-Dibromo-3-chloropropane	1400	U
120-82-1	1,2,4-Trichlorobenzene	1400	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.

SUB SLAB 2 6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22202

Sample wt/vol: 5.00 (g/mL) G Lab File ID: Q8776.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: not dec. 22 Heated Purge: Y Date Analyzed: 11/07/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene chloride	13	U
67-64-1	Acetone	25	
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	6	J
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
108-88-3	Toluene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	87	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.

SUB SLAB 2 6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22202

Sample wt/vol: 5.00 (g/mL) G Lab File ID: Q8776.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: not dec. 22 Heated Purge: Y Date Analyzed: 11/07/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
156-60-5	trans-1,2-Dichloroethene	13	U
75-71-8	Dichlorodifluoromethane	13	U
75-69-4	Trichlorofluoromethane	13	U
79-20-9	Methyl acetate	13	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	13	U
110-82-7	Cyclohexane	22	
108-87-2	Methylcyclohexane	150	
106-93-4	1,2-Dibromoethane	13	U
98-82-8	Isopropylbenzene	110	
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00 EPA VOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

SUB SLAB 2 6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22202

Sample wt/vol: 5.00 (g/mL) G Lab File ID: Q8776.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: not dec. 21.6 Date Analyzed: 11/07/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	Compound Name	RT	Est. Conc.	Q
1.		UNKNOWN	9.82	820	J
2.		SATURATED HYDROCARBON	10.08	560	J
3.		TRIMETHYLBENZENE ISOMER	10.21	1000	J
4.		ALKYLCYCLOHEXANE	10.38	850	J
5.		TRIMETHYLBENZENE ISOMER	10.58	520	J
6.		DECAHYDRONAPHTHALENE DER.	10.81	770	J
7.		ALKYLBENZENE DERIVATIVE	11.02	780	J
8.		ALKYLBENZENE DERIVATIVE	11.11	540	J
9.		UNKNOWN	11.35	510	J
10.		UNKNOWN	11.79	820	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

24/656

Client No.

SUB SLAB 3 6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22203

Sample wt/vol: 4.00 (g/mL) G Lab File ID: Q8614.RR

Level: (low/med) MED Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: not dec. 14 Heated Purge: N Date Analyzed: 11/03/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100.00 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1400	U
74-83-9	Bromomethane	1400	U
75-01-4	Vinyl chloride	270	J
75-00-3	Chloroethane	1400	U
75-09-2	Methylene chloride	1400	U
67-64-1	Acetone	1400	U
75-15-0	Carbon Disulfide	1400	U
75-35-4	1,1-Dichloroethene	1400	U
75-34-3	1,1-Dichloroethane	1400	U
67-66-3	Chloroform	1400	U
107-06-2	1,2-Dichloroethane	1400	U
78-93-3	2-Butanone	1400	U
71-55-6	1,1,1-Trichloroethane	1400	U
56-23-5	Carbon Tetrachloride	1400	U
75-27-4	Bromodichloromethane	1400	U
78-87-5	1,2-Dichloropropane	1400	U
10061-01-5	cis-1,3-Dichloropropene	1400	U
79-01-6	Trichloroethene	650	J
124-48-1	Dibromochloromethane	1400	U
79-00-5	1,1,2-Trichloroethane	1400	U
71-43-2	Benzene	1400	U
10061-02-6	trans-1,3-Dichloropropene	1400	U
75-25-2	Bromoform	1400	U
108-10-1	4-Methyl-2-pentanone	1400	U
591-78-6	2-Hexanone	1400	U
127-18-4	Tetrachloroethene	250	J
108-88-3	Toluene	1400	U
79-34-5	1,1,2,2-Tetrachloroethane	1400	U
108-90-7	Chlorobenzene	1400	U
100-41-4	Ethylbenzene	1400	U
100-42-5	Styrene	1400	U
1330-20-7	Total Xylenes	1400	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1400	U
156-59-2	cis-1,2-Dichloroethene	16000	

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00 EPA VOLATILES - S
ANALYSIS DATA SHEET

Client No.

SUB SLAB 3 6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22203

Sample wt/vol: 4.00 (g/mL) G Lab File ID: Q8614.RR

Level: (low/med) MED Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: not dec. 14 Heated Purge: N Date Analyzed: 11/03/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100.00 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
156-60-5	trans-1,2-Dichloroethene	640	J
75-71-8	Dichlorodifluoromethane	1400	U
75-69-4	Trichlorofluoromethane	1400	U
79-20-9	Methyl acetate	1400	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	1400	U
110-82-7	Cyclohexane	1400	U
108-87-2	Methylcyclohexane	1400	U
106-93-4	1,2-Dibromoethane	1400	U
98-82-8	Isopropylbenzene	1400	U
541-73-1	1,3-Dichlorobenzene	1400	U
106-46-7	1,4-Dichlorobenzene	1400	U
95-50-1	1,2-Dichlorobenzene	1400	U
96-12-8	1,2-Dibromo-3-chloropropane	1400	U
120-82-1	1,2,4-Trichlorobenzene	1400	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00 EPA VOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

SUB SLAB 3 6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22203

Sample wt/vol: 4.00 (g/mL) G Lab File ID: Q8614.RR

Level: (low/med) MED Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: not dec. 14.3 Date Analyzed: 11/03/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100.00 (uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	Compound Name	RT	Est. Conc.	Q
1.		UNKNOWN	9.80	780	J
2.		TRIMETHYLBENZENE ISOMER	10.20	1000	J
3.		UNKNOWN	10.81	790	J
4.		ALKYLBENZENE DERIVATIVE	11.79	1200	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.: SUB SLAB 1 8-9

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V12317.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/01/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/07/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	270	J
51-28-5	2,4-Dinitrophenol	930	U
100-02-7	4-Nitrophenol	930	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethyl phthalate	380	U
86-73-7	Fluorene	770	
7005-72-3	4-Chlorophenyl phenyl ether	380	U
100-01-6	4-Nitroaniline	930	U
534-52-1	4,6-Dinitro-2-methylphenol	930	U
86-30-6	N-nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl phenyl ether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	770	U
87-86-5	Pentachlorophenol	930	U
85-01-8	Phenanthrene	1800	
120-12-7	Anthracene	250	J
86-74-8	Carbazole	380	U
84-74-2	Di-n-butyl phthalate	380	U
206-44-0	Fluoranthene	220	J
129-00-0	Pyrene	270	J
85-68-7	Butyl benzyl phthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	61	J
218-01-9	Chrysene	80	J
117-81-7	Bis(2-ethylhexyl) phthalate	66	BJ
117-84-0	Di-n-octyl phthalate	380	U
205-99-2	Benzo(b)fluoranthene	67	J
207-08-9	Benzo(k)fluoranthene	26	J
50-32-8	Benzo(a)pyrene	46	J
193-39-5	Indeno(1,2,3-cd)pyrene	32	J
53-70-3	Dibenzo(a,h)anthracene	11	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

SUB SLAB 1 8-9

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V12317.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/01/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/07/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	770	U
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl) ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	380	U
98-86-2	Acetophenone	770	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-Di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	Bis(2-chloroethoxy) methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	1100	
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	770	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	4500	E
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	930	U
92-52-4	Biphenyl	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	930	U
131-11-3	Dimethyl phthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	380	U
99-09-2	3-Nitroaniline	930	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

SUB SLAB 1 8-9

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V12317.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: 15.2 decanted: (Y/N) N Date Extracted: 11/01/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/07/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 26 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	Compound Name	RT	Est. Conc.	Q
1.		SUSPECTED ALDOL COND.PRODUCT	4.37	4200	ABJ
2.		TRIMETHYLBENZENE ISOMER	6.47	670	J
3.		METHYLPROPYL BENZENE ISOMER	6.66	420	J
4.		DIETHYLBENZENE ISOMER	7.09	460	J
5.		UNKNOWN	7.20	760	J
6.		ETHYLDIMETHYLBENZENE ISOMER	7.41	400	J
7.		METHYLMETHYLETHYLBENZENE ISO	7.44	490	J
8.		UNKNOWN	8.05	430	J
9.		UNKNOWN	8.36	410	J
10.		UNKNOWN	8.90	460	J
11.		UNKNOWN	9.31	560	J
12.	90-12-0	1-METHYLNAPHTHALENE	9.80	490	JN
13.	5617-41-4	HEPTYLCYCLOHEXANE	10.00	1100	JN
14.		UNKNOWN	10.44	1400	J
15.		ETHYLNAPHTHALENE ISOMER	10.50	2000	J
16.	582-16-1	DIMETHYLNAPHTHALENE ISOMER	10.61	2100	JN
17.		DIMETHYLNAPHTHALENE ISOMER	10.72	2700	J
18.		DIMETHYLNAPHTHALENE ISOMER	10.76	2000	J
19.	1120-21-4	UNKNOWN HYDROCARBON	10.91	3700	JN
20.		TRIMETHYLNAPHTHALENE ISOMER	11.60	1900	J
21.		TRIMETHYLNAPHTHALENE ISOMER	11.70	1200	J
22.		TRIMETHYLNAPHTHALENE ISOMER	11.74	670	J
23.		TRIMETHYLNAPHTHALENE ISOMER	11.82	1200	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.: SUB SLAB 1 8-9

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V12317.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/01/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/07/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(ghi)perylene	380	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

SUB SLAB 1 8-9

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V12317.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: 15.2 decanted: (Y/N) N Date Extracted: 11/01/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/07/2005

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 26

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
24. 54774-89-9	2-METHYL-1-PROPYLNAPHTHALENE	12.08	660	JN
25.	UNKNOWN HYDROCARBON	12.27	1000	J
26.	UNKNOWN	14.79	510	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

SUB SLAB 1 8-9 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201DL

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V12321.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/01/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/07/2005

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	3800	U
108-95-2	Phenol	1900	U
111-44-4	Bis(2-chloroethyl) ether	1900	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1900	U
98-86-2	Acetophenone	3800	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-Di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	Bis(2-chloroethoxy) methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	1100	DJ
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	3800	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	5600	D
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	4700	U
92-52-4	Biphenyl	3800	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	4700	U
131-11-3	Dimethyl phthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	1900	U
99-09-2	3-Nitroaniline	4700	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

SUB SLAB 1 8-9 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201DL

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V12321.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/01/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/07/2005

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(ghi)perylene	1900	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

SUB SLAB 1 8-9 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201DL

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V12321.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: 15.2 decanted: (Y/N) N Date Extracted: 11/01/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/07/2005

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
24.	UNKNOWN PAH DER.	13.77	3000	J
25.	UNKNOWN PAH DER.	13.80	3300	J
26.	UNKNOWN PAH DER.	14.02	2100	J
27.	UNKNOWN PAH DER.	14.35	2600	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00- SEMIVOLATILES - S
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

SUB SLAB 1 8-9 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201DL

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V12321.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: 15.2 decanted: (Y/N) N Date Extracted: 11/01/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/07/2005

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 27 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	Compound Name	RT	Est. Conc.	Q
1.		SUSPECTED ALDOL COND.PRODUCT	4.33	6500	ABJ
2.		UNKNOWN	8.34	1800	J
3.		UNKNOWN	8.89	2100	J
4.		UNKNOWN	9.06	1700	J
5.		UNKNOWN	9.29	3300	J
6.	90-12-0	1-METHYLNAPHTHALENE	9.78	2700	JN
7.	4175-54-6	NAPHTHALENE,1,2,3,4-TETRAHYD	9.83	1900	JN
8.	5617-41-4	HEPTYLCYCLOHEXANE	9.98	2500	JN
9.	54340-86-2	BENZENE,4-(2-BUTENYL)-1,2-DI	10.41	4000	JN
10.		ETHYLNAPHTHALENE ISOMER	10.48	3200	J
11.		DIMETHYLNAPHTHALENE ISOMER	10.58	4800	J
12.		DIMETHYLNAPHTHALENE ISOMER	10.69	5800	J
13.		DIMETHYLNAPHTHALENE ISOMER	10.73	3600	J
14.		UNKNOWN HYDROCARBON	10.87	9300	J
15.		DIMETHYLNAPHTHALENE ISOMER	10.98	2000	J
16.		TRIMETHYLNAPHTHALENE ISOMER	11.36	2900	J
17.		TRIMETHYLNAPHTHALENE ISOMER	11.51	3500	J
18.		TRIMETHYLNAPHTHALENE ISOMER	11.57	3900	J
19.		TRIMETHYLNAPHTHALENE ISOMER	11.67	3400	J
20.		UNKNOWN PAH DER.	12.77	3100	J
21.		UNKNOWN	12.87	1800	J
22.		UNKNOWN PAH DER.	13.35	2400	J
23.		UNKNOWN PAH DER.	13.57	3200	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
ASP00- SEMIVOLATILES - S
ANALYSIS DATA SHEET

Client No.

SUB SLAB 1 8-9 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201DL

Sample wt/vol: 30.32 (g/mL) G Lab File ID: V12321.RR

Level: (low/med) LOW Date Samp/Recv: 10/26/2005 10/28/2005

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/01/2005

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/07/2005

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	320	DJ
51-28-5	2,4-Dinitrophenol	4700	U
100-02-7	4-Nitrophenol	4700	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethyl phthalate	1900	U
86-73-7	Fluorene	870	DJ
7005-72-3	4-Chlorophenyl phenyl ether	1900	U
100-01-6	4-Nitroaniline	4700	U
534-52-1	4,6-Dinitro-2-methylphenol	4700	U
86-30-6	N-nitrosodiphenylamine	1900	U
101-55-3	4-Bromophenyl phenyl ether	1900	U
118-74-1	Hexachlorobenzene	1900	U
1912-24-9	Atrazine	3800	U
87-86-5	Pentachlorophenol	4700	U
85-01-8	Phenanthrene	1900	D
120-12-7	Anthracene	220	DJ
86-74-8	Carbazole	1900	U
84-74-2	Di-n-butyl phthalate	1900	U
206-44-0	Fluoranthene	190	DJ
129-00-0	Pyrene	300	DJ
85-68-7	Butyl benzyl phthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	69	DJ
218-01-9	Chrysene	84	DJ
117-81-7	Bis(2-ethylhexyl) phthalate	73	BDJ
117-84-0	Di-n-octyl phthalate	1900	U
205-99-2	Benzo(b)fluoranthene	73	DJ
207-08-9	Benzo(k)fluoranthene	1900	U
50-32-8	Benzo(a)pyrene	1900	U
193-39-5	Indeno(1,2,3-cd)pyrene	1900	U
53-70-3	Dibenzo(a,h)anthracene	1900	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - S
ANALYSIS DATA SHEET

Client No.

SUB SLAB 1 8-9

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22201

Sample wt/vol: 30.82 (g/mL) G Lab File ID: 24A28125.TX0

% Moisture: 15 decanted: (Y/N) N Date Samp/Recv: 10/26/2005 10/28/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 10/31/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/04/2005

Injection Volume: 1.00 (uL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
64475-85-0	Mineral Spirits	230	U
----------	Other-1	1900	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - S
ANALYSIS DATA SHEET

Client No.

SUB SLAB 2 6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22202

Sample wt/vol: 30.17 (g/mL) G Lab File ID: 24A28105.TX0

% Moisture: 18 decanted: (Y/N) N Date Samp/Recv: 10/26/2005 10/28/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 10/31/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/04/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
64475-85-0	Mineral Spirits	12	U
----------	Other-1	1.8	J

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - S
ANALYSIS DATA SHEET

Client No.

SUB SLAB 3 6-8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A5C22203

Sample wt/vol: 30.36 (g/mL) G Lab File ID: 24A28106.TX0

% Moisture: 10 decanted: (Y/N) N Date Samp/Recv: 10/26/2005 10/28/2005

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 10/31/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/04/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
64475-85-0	Mineral Spirits	11	U
----------	Other-1	68	J

APPENDIX 8

Groundwater Analytical Data

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

10/315

Client No.

MW-1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983901

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7355.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	33	
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	30	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	29	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	64	B
108-88-3	Toluene	29	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	28	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-69-4	Trichlorofluoromethane	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983901

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7355.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
110-82-7	Cyclohexane	10	U
108-87-2	Methylcyclohexane	10	U
106-93-4	1,2-Dibromoethane	10	U
98-82-8	Isopropylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
79-20-9	Methyl acetate	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: MW-1

Lab Name: SIL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983901

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7355.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No: MW-2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983902

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7366.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene chloride	20	U
67-64-1	Acetone	20	U
75-15-0	Carbon Disulfide	20	U
75-35-4	1,1-Dichloroethene	20	U
75-34-3	1,1-Dichloroethane	20	U
67-66-3	Chloroform	20	U
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon Tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	U
108-88-3	Toluene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U
1330-20-7	Total Xylenes	20	U
75-71-8	Dichlorodifluoromethane	20	U
75-69-4	Trichlorofluoromethane	20	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983902

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7366.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	20	U
156-59-2	cis-1,2-Dichloroethene	20	U
110-82-7	Cyclohexane	20	U
108-87-2	Methylcyclohexane	20	U
106-93-4	1,2-Dibromoethane	20	U
98-82-8	Isopropylbenzene	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
79-20-9	Methyl acetate	20	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

MW-2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983902

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7366.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983903

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7356.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	52	
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	46	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	45	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	94	B
108-88-3	Toluene	45	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	44	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-69-4	Trichlorofluoromethane	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.

MW-3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983903

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7356.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
110-82-7	Cyclohexane	10	U
108-87-2	Methylcyclohexane	10	U
106-93-4	1,2-Dibromoethane	10	U
98-82-8	Isopropylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
79-20-9	Methyl acetate	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

MW-3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983903

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7356.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	Compound Name	RT	Est. Conc.	Q

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983904

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7391.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/15/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	40	U
74-83-9	Bromomethane	40	U
75-01-4	Vinyl chloride	40	U
75-00-3	Chloroethane	40	U
75-09-2	Methylene chloride	40	U
67-64-1	Acetone	40	U
75-15-0	Carbon Disulfide	40	U
75-35-4	1,1-Dichloroethene	40	U
75-34-3	1,1-Dichloroethane	40	U
67-66-3	Chloroform	40	U
107-06-2	1,2-Dichloroethane	40	U
78-93-3	2-Butanone	40	U
71-55-6	1,1,1-Trichloroethane	40	U
56-23-5	Carbon Tetrachloride	40	U
75-27-4	Bromodichloromethane	40	U
78-87-5	1,2-Dichloropropane	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
79-01-6	Trichloroethene	40	U
124-48-1	Dibromochloromethane	40	U
79-00-5	1,1,2-Trichloroethane	40	U
71-43-2	Benzene	40	U
10061-02-6	trans-1,3-Dichloropropene	40	U
75-25-2	Bromoform	40	U
108-10-1	4-Methyl-2-pentanone	40	U
591-78-6	2-Hexanone	40	U
127-18-4	Tetrachloroethene	40	U
108-88-3	Toluene	28	J
79-34-5	1,1,2,2-Tetrachloroethane	40	U
108-90-7	Chlorobenzene	40	U
100-41-4	Ethylbenzene	130	
100-42-5	Styrene	40	U
1330-20-7	Total Xylenes	1000	
75-71-8	Dichlorodifluoromethane	40	U
75-69-4	Trichlorofluoromethane	40	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983904

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7391.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/15/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	40	U
156-60-5	trans-1,2-Dichloroethene	40	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	40	U
156-59-2	cis-1,2-Dichloroethene	40	U
110-82-7	Cyclohexane	40	U
108-87-2	Methylcyclohexane	40	U
106-93-4	1,2-Dibromoethane	40	U
98-82-8	Isopropylbenzene	680	
541-73-1	1,3-Dichlorobenzene	40	U
106-46-7	1,4-Dichlorobenzene	40	U
95-50-1	1,2-Dichlorobenzene	40	U
96-12-8	1,2-Dibromo-3-chloropropane	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
79-20-9	Methyl acetate	40	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: MW-4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983904

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7391.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Date Analyzed: 09/15/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 10

	CAS NO.	Compound Name	RT	Est. Conc.	Q
1.		TRIMETHYLBENZENE ISOMER	9.86	310	J
2.		ALKYLBENZENE DERIVATIVE	10.06	290	J
3.		TRIMETHYLBENZENE ISOMER	10.20	1100	J
4.		TRIMETHYLBENZENE ISOMER	10.58	390	J
5.		AROMATIC DERIVATIVE	10.76	420	J
6.		ALKYLBENZENE DERIVATIVE	10.79	140	J
7.		ALKYLBENZENE DERIVATIVE	11.11	140	J
8.		TETRAMETHYLBENZENE ISOMER	11.46	140	J
9.		AROMATIC DERIVATIVE	11.81	230	J
10.	91-20-3	NAPHTHALENE	12.30	160	JN

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - W
ANALYSIS DATA SHEET

Client No.: MW-1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983901

Sample wt/vol: 1060.00 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: 09/09/2005 09/09/2005

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/13/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 1.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
64475-85-0	Mineral Spirits	0.94	U
----------	Other-1	0.94	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - W
ANALYSIS DATA SHEET

Client No.: MW-2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983902

Sample wt/vol: 1060.00 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: 09/09/2005 09/09/2005

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/13/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 1.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
64475-85-0	Mineral Spirits	0.94	U
----------	Other-1	0.94	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - W
ANALYSIS DATA SHEET

Client No.: MW-3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983903

Sample wt/vol: 1060.00 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: 09/09/2005 09/09/2005

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/13/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 1.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
64475-85-0	Mineral Spirits	0.94	U
----------	Other-1	0.94	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - W
ANALYSIS DATA SHEET

Client No.: MW-4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983904

Sample wt/vol: 1060.00 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: 09/09/2005 09/09/2005

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/13/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 1.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
64475-85-0	Mineral Spirits	0.94	U
----------	Other-1	9.7	

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.

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Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983905

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7341.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
110-82-7	Cyclohexane	10	U
108-87-2	Methylcyclohexane	10	U
106-93-4	1,2-Dibromoethane	10	U
98-82-8	Isopropylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
79-20-9	Methyl acetate	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983905

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7341.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983905

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7341.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-69-4	Trichlorofluoromethane	10	U

APPENDIX 9

Low Flow Sampling Documentation

LOW-FLOW SAMPLING FIELD FORM

Monitoring Well I.D.: MW-1	Date: 9/9/05	Time Started: 820	File Number:
Weather Conditions: foggy 61		Time Ended: 930	Field Personnel: RCB
Comments:			

Initial Readings

Measured Well Bottom (TOR-ft)	10.01	Riser Pipe Diameter (in)	4
Measured Water Level (TOR-ft)	8.37 7.83	One Well Volume (gal.)	0.37
Notes:			

Well Condition

Well Riser Type (place an X in one box)		Stainless Steel		Carbon Steel	X PVC
Casing Condition:	OK	Repair Required:			
Cap Condition:	OK	Repair Required:			
Paint Condition:	OK	Repair Required:	NA		
Lock Condition:	OK	Repair Required:	NA		
Inner Casing Condition:	OK	Repair Required:			
Surface Seal Condition:	OK	Repair Required:			
Other:	OK	Repair Required:			

Purge Information

Purging Method: (place an X in one box)		Stainless Steel Bailer		Peristaltic Pump	Grundfos Pump	Teflon Bailer
	X	Polyethylene Bailer		Bladder Pump	Other:	
Amount Purged: ~2 gal			Flow Rate (mL per minute): ~45 ml/min			
Water Level After Purging (TOR ft.) 8.04						
Comments:						

Sampling Information

Date: 9/9/05	Time Sampled: 930			Field Personnel: RC Backer	
Measured Water Level (TOR ft): 8.04					
Sampling Method: (place X in box)		Stainless Steel Bailer		Peristaltic Pump	Grundfos Pump	Teflon Bailer
	X	Polyethylene Bailer		Bladder Pump	Other:	

Time Elapsed (min)	Temperature	pH	Conductivity	Specific Conductivity	Dissolved Oxygen	Redox	Water Level	Turbidity	Flow Rate
5	19.34	8.75	2.29 ms/cm		0.0	-178	7.9	7.82	~200 ml/min
10	19.34	8.61	2.29		0.0	-174	7.96	5.26	~165 ml/min
15	19.36	8.48	2.29		0.0	-166	8.0	3.49	~100 ml/min
20	19.39	8.31	2.29		0.0	-155	8.01	5.73	~90 ml/min
25	19.39	8.17	2.29		0.0	-154	8.02	4.49	~90 ml/min
30	19.43	8.18	2.29		0.0	-148	8.04	5.26	~45 ml/min

QA/QC Samples Taken: none

Comments:

Signature

Sampler (Print) Richard C Backer	Sampler (signature): Richard C Backer	Date: 9/9/05

LOW-FLOW SAMPLING FIELD FORM

Monitoring Well I.D.: MW-2	Date: 9/9/05	Time Started: 930	File Number:
Weather Conditions: overcast 63°		Time Ended: 1125	Field Personnel: RCB
Comments:			

Initial Readings

Measured Well Bottom (TOR-ft) 14.5	Riser Pipe Diameter (in) 2
Measured Water Level (TOR-ft) 10.97	One Well Volume (gal.) 0.6
Notes:	

Well Condition

Well Riser Type (place an X in one box)			Stainless Steel		Carbon Steel	✓	PVC
Casing Condition:	OK		Repair Required:				
Cap Condition:	OK		Repair Required:				
Paint Condition:	OK		Repair Required: NA				
Lock Condition:	OK		Repair Required: NA				
Inner Casing Condition:	OK		Repair Required:				
Surface Seal Condition:	OK		Repair Required:				
Other:	OK		Repair Required:				

Purge Information

Purging Method: (place an X in one box)		Stainless Steel Bailer		Peristaltic Pump		Grundfos Pump	Teflon Bailer
		Polyethylene Bailer	✓	Bladder Pump		Other:	
Amount Purged: .75 gal			Flow Rate (mL per minute):				
Water Level After Purging (TOR ft.) 11.42							
Comments:							

Sampling Information

Date: 9/9/05	Time Sampled: 1045				Field Personnel: RC Becker		
Measured Water Level (TOR ft): 11.42							
Sampling Method: (place X in box)		Stainless Steel Bailer		Peristaltic Pump		Grundfos Pump	Teflon Bailer
		Polyethylene Bailer	✓	Bladder Pump		Other:	

Time Elapsed (min)	Temperature	pH	Conductivity	Specific Conductivity	Dissolved Oxygen	Redox	Water Level	Turbidity	Flow Rate
5	19.77	7.98	3.33 mS/cm		0.0	-98	11.14	222	~30 ml/m
10	20.17	7.64	2.84		0.0	-91	11.2	194	~12 ml/m
20	20.46	7.55	2.84		0.0	-81	11.23	162	~12 ml/m
30	20.74	7.56	2.85		0.0	-83	11.28	180	"
40	20.86	7.39	2.85		0.0	-79	11.3	172	"
50	20.87	7.45	2.85		0.0	-81	11.39	174	"
60	20.67	7.48	2.85		0.0	-89	11.42	169	"

QA/QC Samples Taken:

Comments:

Signature

Sampler (Print) Richard C Becker	Sampler (signature) Richard C Becker	Date: 9/9/05

LOW-FLOW SAMPLING FIELD FORM

Monitoring Well I.D.: MW-3	Date: 9/9/05	Time Started: 1130	File Number:
Weather Conditions: ~clouds 77°		Time Ended: 1330	Field Personnel: RCB
Comments:			

Initial Readings

Measured Well Bottom (TOR-ft) 14.95	Riser Pipe Diameter (in) 2
Measured Water Level (TOR-ft) 11.31	One Well Volume (gal.) ~~0.82~~ gal
Notes:	

Well Condition

Well Riser Type (place an X in one box)		Stainless Steel		Carbon Steel		PVC	✓
Casing Condition:	OK	Repair Required:					
Cap Condition:	OK	Repair Required:					
Paint Condition:	OK	Repair Required:	NA				
Lock Condition:	OK	Repair Required:					
Inner Casing Condition:	OK	Repair Required:					
Surface Seal Condition:	OK	Repair Required:					
Other:	OK	Repair Required:					

Purge Information

Purging Method: (place an X in one box)		Stainless Steel Bailer		Peristaltic Pump		Grundfos Pump	Teflon Bailer
		Polyethylene Bailer	X	Bladder Pump		Other:	
Amount Purged: ~1 gal				Flow Rate (mL per minute): ~ 50 ml/min			
Water Level After Purging (TOR ft.) 11.61							
Comments:							

Sampling Information

Date: 9/9/05	Time Sampled: 1315					Field Personnel: RC Backen	
Measured Water Level (TOR ft): 11.61							
Sampling Method: (place X in box)		Stainless Steel Bailer		Peristaltic Pump		Grundfos Pump	Teflon Bailer
		Polyethylene Bailer	✓	Bladder Pump		Other:	

Time Elapsed (min)	Temperature	pH	Conductivity	Specific Conductivity	Dissolved Oxygen	Redox	Water Level	Turbidity	Flow Rate
10	19.77	6.74	1.57		0.00	-15	11.61	66	~20 ml/m
20	19.20	7.15	1.57		0.00	-40	11.60	42.10	"
30	19.72	7.49	1.58		0.00	-69	11.59	19.24	"
40	19.46	7.56	1.56		0.00	-80	11.60	14.09	50 ml/m
60	19.91	7.59	1.55		0.00	-78	11.60	13.50	"
80	21.20	7.55	1.55		0.00	-77	11.60	11.97	"
~~90~~	20.42	7.54	1.56		0.00	-77	11.61	7.62	"

QA/QC Samples Taken:

Comments:

Signature

Sampler (Print) Richard C Backen	Sampler (signature): Richard C Backen	Date: 9/9/05

LOW-FLOW SAMPLING FIELD FORM

Monitoring Well I.D.: MW-4	Date: 9/9/05	Time Started: 1335	File Number:
Weather Conditions: Cloudy 88°		Time Ended:	Field Personnel: RCB
Comments:			

Initial Readings

Measured Well Bottom (TOR-ft)	14.65	Riser Pipe Diameter (in)	2
Measured Water Level (TOR-ft)	8.78	One Well Volume (gal.)	0.997
Notes:			

Well Condition

Well Riser Type (place an X in one box)		Stainless Steel	Carbon Steel / PVC ✓
Casing Condition:	OK	Repair Required:	
Cap Condition:	OK	Repair Required:	
Paint Condition:	OK	Repair Required:	NA
Lock Condition:	OK	Repair Required:	
Inner Casing Condition:	OK	Repair Required:	
Surface Seal Condition:	OK	Repair Required:	
Other:	OK	Repair Required:	

Purge Information

Purging Method: (place an X in one box)		Stainless Steel Bailer		Peristaltic Pump		Grundfos Pump	Teflon Bailer
		Polyethylene Bailer	✓	Bladder Pump		Other:	
Amount Purged: ~2 gal				Flow Rate (mL per minute):			
Water Level After Purging (TOR ft.) 9.83							
Comments:							

Sampling Information

Date: 9/9/05	Time Sampled: 1450					Field Personnel: RC Bucker	
Measured Water Level (TOR ft): 9.83							
Sampling Method: (place X in box)		Stainless Steel Bailer		Peristaltic Pump		Grundfos Pump	Teflon Bailer
		Polyethylene Bailer	✓	Bladder Pump		Other:	

Time Elapsed (min)	Temperature	pH	Conductivity	Specific Conductivity	Dissolved Oxygen	Redox	Water Level	Turbidity	Flow Rate
10	21.27	7.89	3.36		0.0	-102	9.51	39.13	~80 mL/min
20	22.43	7.72	3.36		0.0	-97	9.61	69	"
30	22.61	7.65	3.37		0.0	-94	9.8	36.32	"
40	22.18	7.52	3.93		0.0	-90	9.8	23.12	~75 mL/min
50	22.24	7.44	3.39		0.0	-86	9.82	20.14	"
60	22.40	7.40	3.40		0.0	-83	9.82	16.07	"
70	22.25	7.19	3.40		0.0	-79	9.83	9.68	"

QA/QC Samples Taken:

Comments:

Signature

Sampler (Print) Richard C Bucker	Sampler (signature): Richard C Bucker	Date: 9/9/05

APPENDIX 10

DER 10 FWRIA Analysis Decision Key

APPENDIX 3C

Fish and Wildlife Resources Impact Analysis Decision Key

		If YES Go to:	If NO Go to:
1.	Is the site or area of concern a discharge or spill event?	13.	2.
2.	Is the site or area of concern a point source of contamination to the groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas.	13.	3
3.	Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation?	4.	9.
4.	Does the site contain habitat of an endangered, threatened or special concern species?	Section 3.10.1	5.
5.	Has the contamination gone off site?	6.	14.
6.	Is there any discharge or erosion of contamination to surface water or the potential for discharge or erosion of contamination?	7.	14.
7.	Are the site contaminants PCBs, pesticides or other persistent, bioaccumulable substances?	Section 3.10.1	8.
8.	Does contamination exist at concentrations that could exceed SCGs or be toxic to aquatic life if discharged to surface water?	Section 3.10.1	14.
9.	Does the site or any adjacent or downgradient property contain any of the following resources? a. Any endangered, threatened or special concern species or rare plants or their habitat b. Any NYSDEC designated significant habitats or rare NYS Ecological Communities c. Tidal or freshwater wetlands d. Stream, creek or river e. Pond, lake, lagoon f. Drainage ditch or channel g. Other surface water feature h. Other marine or freshwater habitat i. Forest j. Grassland or grassy field k. Parkland or woodland l. Shrubby area m. Urban wildlife habitat n. Other terrestrial habitat	11.	10.
10.	Is the lack of resources due to the contamination?	Section 3.10.1	14.
11.	Is the contamination a localized source which has not migrated and will not migrate from the source to impact any on-site or off-site resources?	14.	12.
12.	Does the site have widespread soil contamination that is not confined under and around buildings or paved areas?	Section 3.10.1	13.
13.	Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact NYSDEC for information regarding endangered species.)	no Section 3.10.1	14.
14.	No Fish and Wildlife Resources Impact Analysis needed. not needed		

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 2
Lab Order:	C0509015	**Tag Number:**	137, 65
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/20/2005
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/20/2005
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/20/2005
1,2,4-Trimethylbenzene	ND	15.0		ug/m3	20	9/20/2005
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/20/2005
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/20/2005
1,3,5-Trimethylbenzene	6.05	0.750		ug/m3	1	9/20/2005
1,3-butadiene	ND	0.337		ug/m3	1	9/20/2005
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dioxane	ND	1.10		ug/m3	1	9/20/2005
2,2,4-trimethylpentane	2.75	0.712		ug/m3	1	9/20/2005
4-ethyltoluene	3.30	0.750		ug/m3	1	9/20/2005
Acetone	ND	0.724		ug/m3	1	9/20/2005
Allyl chloride	ND	0.477		ug/m3	1	9/20/2005
Benzene	3.86	0.487		ug/m3	1	9/20/2005
Benzyl chloride	ND	0.877		ug/m3	1	9/20/2005
Bromodichloromethane	ND	1.02		ug/m3	1	9/20/2005
Bromoform	ND	1.58		ug/m3	1	9/20/2005
Bromomethane	ND	0.592		ug/m3	1	9/20/2005
Carbon disulfide	ND	0.475		ug/m3	1	9/20/2005
Carbon tetrachloride	0.640	0.959	J	ug/m3	1	9/20/2005
Chlorobenzene	ND	0.702		ug/m3	1	9/20/2005
Chloroethane	ND	0.402		ug/m3	1	9/20/2005
Chloroform	1.04	0.744		ug/m3	1	9/20/2005
Chloromethane	ND	0.315		ug/m3	1	9/20/2005
cis-1,2-Dichloroethene	12.1	12.1		ug/m3	20	9/20/2005
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Cyclohexane	3.78	0.525		ug/m3	1	9/20/2005
Dibromochloromethane	ND	1.30		ug/m3	1	9/20/2005
Ethyl acetate	ND	0.916		ug/m3	1	9/20/2005
Ethylbenzene	63.6	13.2		ug/m3	20	9/20/2005
Freon 11	1.60	0.857		ug/m3	1	9/20/2005
Freon 113	1.09	1.17	J	ug/m3	1	9/20/2005
Freon 114	ND	1.07		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Ambient 2
Lab Order:	C0509015	**Tag Number:**	137, 65
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	3.07	0.754		ug/m3	1	9/20/2005
Heptane	3.21	0.625		ug/m3	1	9/20/2005
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/20/2005
Hexane	5.12	0.537		ug/m3	1	9/20/2005
Isopropyl alcohol	ND	0.375		ug/m3	1	9/20/2005
m-Xylene	122	79.4		ug/m3	120	9/20/2005
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl Ethyl Ketone	5.94	0.899		ug/m3	1	9/20/2005
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/20/2005
Methylene chloride	0.636	0.530		ug/m3	1	9/20/2005
o-Xylene	177	13.2		ug/m3	20	9/20/2005
p-Xylene	109	13.2		ug/m3	20	9/20/2005
Propylene	ND	0.262		ug/m3	1	9/20/2005
Styrene	ND	0.649		ug/m3	1	9/20/2005
Tetrachloroethylene	629	124		ug/m3	120	9/20/2005
Tetrahydrofuran	ND	0.450		ug/m3	1	9/20/2005
Toluene	42.1	11.5		ug/m3	20	9/20/2005
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Trichloroethene	16.4	4.37		ug/m3	20	9/20/2005
Vinyl acetate	ND	0.537		ug/m3	1	9/20/2005
Vinyl Bromide	ND	0.667		ug/m3	1	9/20/2005
Vinyl chloride	0.779	0.390		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Outdoor
Lab Order:	C0509015	**Tag Number:**	225, 179
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/20/2005
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/20/2005
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/20/2005
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/20/2005
1,2,4-Trimethylbenzene	7.14	0.749		ug/m3	1	9/20/2005
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/20/2005
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/20/2005
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/20/2005
1,3,5-Trimethylbenzene	2.35	0.750		ug/m3	1	9/20/2005
1,3-butadiene	ND	0.337		ug/m3	1	9/20/2005
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dichlorobenzene	ND	0.917		ug/m3	1	9/20/2005
1,4-Dioxane	ND	1.10		ug/m3	1	9/20/2005
2,2,4-trimethylpentane	4.94	0.712		ug/m3	1	9/20/2005
4-ethyltoluene	2.55	0.750		ug/m3	1	9/20/2005
Acetone	ND	0.724		ug/m3	1	9/20/2005
Allyl chloride	ND	0.477		ug/m3	1	9/20/2005
Benzene	5.29	0.487		ug/m3	1	9/20/2005
Benzyl chloride	ND	0.877		ug/m3	1	9/20/2005
Bromodichloromethane	ND	1.02		ug/m3	1	9/20/2005
Bromoform	ND	1.58		ug/m3	1	9/20/2005
Bromomethane	ND	0.592		ug/m3	1	9/20/2005
Carbon disulfide	ND	0.475		ug/m3	1	9/20/2005
Carbon tetrachloride	ND	0.959		ug/m3	1	9/20/2005
Chlorobenzene	ND	0.702		ug/m3	1	9/20/2005
Chloroethane	ND	0.402		ug/m3	1	9/20/2005
Chloroform	ND	0.744		ug/m3	1	9/20/2005
Chloromethane	ND	0.315		ug/m3	1	9/20/2005
cis-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/20/2005
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Cyclohexane	3.29	0.525		ug/m3	1	9/20/2005
Dibromochloromethane	ND	1.30		ug/m3	1	9/20/2005
Ethyl acetate	ND	0.916		ug/m3	1	9/20/2005
Ethylbenzene	4.99	0.662		ug/m3	1	9/20/2005
Freon 11	1.60	0.857		ug/m3	1	9/20/2005
Freon 113	1.09	1.17	J	ug/m3	1	9/20/2005
Freon 114	ND	1.07		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *23-Sep-05*

CLIENT:	Passero Associates	**Client Sample ID:**	Outdoor
Lab Order:	C0509015	**Tag Number:**	225, 179
Project:	99018.14	**Collection Date:**	9/16/2005
Lab ID:	C0509015-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
AIR TOXIC TO15 1UG/M3 W/ 0.25UG/M3 TCE		**TO-15**				Analyst: **RJP**
Freon 12	2.92	0.754		ug/m3	1	9/20/2005
Heptane	2.96	0.625		ug/m3	1	9/20/2005
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/20/2005
Hexane	7.63	0.537		ug/m3	1	9/20/2005
Isopropyl alcohol	ND	0.375		ug/m3	1	9/20/2005
m-Xylene	8.39	6.62		ug/m3	10	9/20/2005
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl Ethyl Ketone	ND	0.899		ug/m3	1	9/20/2005
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/20/2005
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/20/2005
Methylene chloride	0.918	0.530		ug/m3	1	9/20/2005
o-Xylene	6.44	0.662		ug/m3	1	9/20/2005
p-Xylene	5.03	0.662		ug/m3	1	9/20/2005
Propylene	ND	0.262		ug/m3	1	9/20/2005
Styrene	ND	0.649		ug/m3	1	9/20/2005
Tetrachloroethylene	4.27	1.03		ug/m3	1	9/20/2005
Tetrahydrofuran	ND	0.450		ug/m3	1	9/20/2005
Toluene	22.2	5.75		ug/m3	10	9/20/2005
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/20/2005
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/20/2005
Trichloroethene	0.492	0.218		ug/m3	1	9/20/2005
Vinyl acetate	ND	0.537		ug/m3	1	9/20/2005
Vinyl Bromide	ND	0.667		ug/m3	1	9/20/2005
Vinyl chloride	ND	0.390		ug/m3	1	9/20/2005

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

APPENDIX 10

DER 10 FWRIA Analysis Decision Key

APPENDIX 3C

Fish and Wildlife Resources Impact Analysis Decision Key

		If YES Go to:	If NO Go to:
1.	Is the site or area of concern a discharge or spill event?	13.	2.
2.	Is the site or area of concern a point source of contamination to the groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas.	13.	3
3.	Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation?	4.	9.
4.	Does the site contain habitat of an endangered, threatened or special concern species?	Section 3.10.1	5.
5.	Has the contamination gone off site?	6.	14.
6.	Is there any discharge or erosion of contamination to surface water or the potential for discharge or erosion of contamination?	7.	14.
7.	Are the site contaminants PCBs, pesticides or other persistent, bioaccumulable substances?	Section 3.10.1	8.
8.	Does contamination exist at concentrations that could exceed SCGs or be toxic to aquatic life if discharged to surface water?	Section 3.10.1	14.
9.	Does the site or any adjacent or downgradient property contain any of the following resources? a. Any endangered, threatened or special concern species or rare plants or their habitat b. Any NYSDEC designated significant habitats or rare NYS Ecological Communities c. Tidal or freshwater wetlands d. Stream, creek or river e. Pond, lake, lagoon f. Drainage ditch or channel g. Other surface water feature h. Other marine or freshwater habitat i. Forest j. Grassland or grassy field k. Parkland or woodland l. Shrubby area m. Urban wildlife habitat n. Other terrestrial habitat	11.	10.
10.	Is the lack of resources due to the contamination?	Section 3.10.1	14.
11.	Is the contamination a localized source which has not migrated and will not migrate from the source to impact any on-site or off-site resources?	14.	12.
12.	Does the site have widespread soil contamination that is not confined under and around buildings or paved areas?	Section 3.10.1	13.
13.	Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact NYSDEC for information regarding endangered species.)	no Section 3.10.1	14.
14.	No Fish and Wildlife Resources Impact Analysis needed. not needed		

APPENDIX 11

Data Usability Summary Reports (DUSRs)

DATA USABILITY SUMMARY REPORT

for

Speedy's Cleaners BCP

(Severn Trent Job #A05-9839)

Prepared for:

Passero Associates, P.C.
100 Liberty Pole Way
Rochester, NY 14604

Prepared by:

Kenneth R. Applin, Ph.D.
KR Applin and Associates
8806 Route 256
Dansville, NY 14437

June 30, 2006

Table of Contents

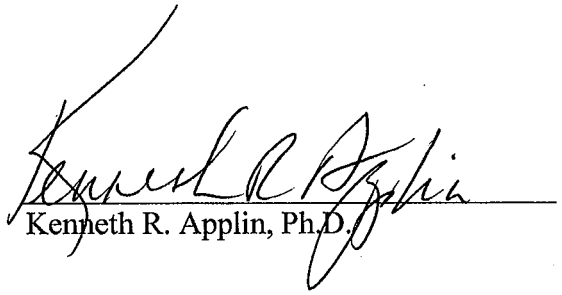
ATTACHMENTS

REVIEWER'S NARRATIVE

The data associated with Severn Trent Laboratories, Inc. job #A05-9839 have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data and in Standard Operating Procedures provided by the laboratory.

All analytical results reported by the laboratory are considered valid and acceptable except results which have been qualified as rejected, "R". Results qualified as estimated, "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on final data tables because they cannot be relied upon, even as a last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase the confidence in data, but any value potentially contains error.

Reviewer's Signature  Date: June 30, 2006

Kenneth R. Applin, Ph.D.

NON-CONFORMANCE SUMMARY

Job#: A05-9839

STL Project#: NY5A9486
Site Name: Speedy's Cleaners Brownfield Cleanup

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-9839
Sample Cooler(s) were received at the following temperature(s); 3.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The analyte Tetrachloroethene was detected in VBLK44 (A5983908) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

All samples were preserved to a pH less than 2.

GC Extractable Data

No deviations from protocol were encountered during the analytical procedures.

1.0 SUMMARY

SITE:	Speedy's Cleaners Brownfield Cleanup Pittsford, NY
SAMPLING DATE:	September 9, 2005
SAMPLE TYPE:	Groundwater
LABORATORY:	Severn Trent Laboratories, Inc. Job # A05-9839
SDG No.:	not specified

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B of the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,

- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for four groundwater samples collected on September 9, 2005, and a trip blank. A list of the sample identification numbers, and collection and analysis dates are provided in the attachments to this report. The samples were analyzed for volatile organic compounds (VOCs) and petroleum products.

All laboratory analyses were performed by Severn Trent Laboratories, Inc., Buffalo, New York. The samples were analyzed as Job # A05-9839. No sample delivery group (SDG) number was assigned to the data package. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 RESULTS OF THE DATA REVIEW

The validated analytical results are attached to this report. The analytical QC data were reviewed using the review criteria listed in Section 2.0 above. Letter qualifiers indicating analytical results qualified as rejected (R), estimated (UJ or J), or non-detects (U) are shown on the data sheets.

The QC criteria included in the reviews of each analyte type (i.e., volatile organic compounds and petroleum products) are listed below. Where QC indicators were found to exceed acceptable limits, the actions taken to qualify the associated analytical results are briefly discussed.

4.1 Volatile Organic Analytes

4.1.1 Data Validation Guidance

USEPA, 1992, CLP Organics Data Review and Preliminary Review; SOP No. HW-6, Revision #8, Part A.

4.1.2 Review Criteria

- Completeness of Data Package - Acceptable
- Holding Times - Acceptable
- System Monitoring Compounds - Acceptable
- Matrix Spikes - Acceptable
- Blanks -

  Trichloroethene (TCE) was detected in method blank VBLK44 at 3 J µg/L. TCE was detected in samples MW-1 and MW-3, but at concentrations greater than 5x the method blank result. Therefore, no sample results were qualified.

- Instrument Performance Check - Acceptable
- Internal Standards - Acceptable
- Initial Calibration - Acceptable
- Continuing Calibration -

  The percent difference (%D) between the initial and continuing calibration standards for carbon disulfide exceeded the 25% control limit during the continuing calibration performed on 9/14/05 at 20:04 PM. The samples affected included MW-2 and MW-4. The results for carbon disulfide in these samples were qualified as estimated (UJ).

- Correct Lab Qualifiers - Acceptable

4.2 Petroleum Products

4.2.1 Data Validation Guidance

Severn Trent Laboratories, Inc., 2006, Laboratory Standard Operating Procedures, NYSDOH Method 310.13; rev. 4.

4.2.2 Review Criteria

- Holding Times - Acceptable
- Matrix Spikes - Acceptable
- Blanks - Acceptable
- Initial Calibration - Acceptable
- Continuing Calibration - Acceptable
- Instrument Calibration - Acceptable
- Pattern Matching - Acceptable

No sample results were qualified.

Attachments

Validator Certifications
Sample Numbers and Analyte List
Laboratory Analytical Data

Westchester Community College

Professional Development Center

Awards this Certificate of Achievement To

KEN APPLIN

for Successfully Completing

ORGANIC DATA VALIDATION

Instructor: Dr. John Samuelian

Date November 1993

Assistant Dean
Professional Development Center

President

The Professional Development Center

SUNY
WESTCHESTER COMMUNITY COLLEGE
Valhalla, New York 10595

Westchester Community College

Professional Development Center

Awards this Certificate of Achievement To

KENNETH APPLIN

for Successfully Completing

Inorganic Data Validation Course (35 hours)

Instructor: John M Rankin, Jr.

Date March 11, 1994

Assistant Dean
Professional Development Center

President

The Professional
Development Center

SUNY
WESTCHESTER COMMUNITY COLLEGE
Valhalla, New York 10595

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5983901	MW-1	WATER	09/09/2005	09:10	09/09/2005	16:25
A5983902	MW-2	WATER	09/09/2005	10:45	09/09/2005	16:25
A5983903	MW-3	WATER	09/09/2005	13:15	09/09/2005	16:25
A5983904	MW-4	WATER	09/09/2005	14:50	09/09/2005	16:25
A5983905	TRIP BLANK	WATER	09/09/2005		09/09/2005	16:25

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983901

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7355.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	33	
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	30	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	29	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	64	B
108-88-3	Toluene	29	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	28	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-69-4	Trichlorofluoromethane	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983901

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7355.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
110-82-7	Cyclohexane	10	U
108-87-2	Methylcyclohexane	10	U
106-93-4	1,2-Dibromoethane	10	U
98-82-8	Isopropylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
79-20-9	Methyl acetate	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: MW-1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983901

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7355.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983902

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7366.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene chloride	20	U
67-64-1	Acetone	20	U
75-15-0	Carbon Disulfide	20	U
75-35-4	1,1-Dichloroethene	20	U
75-34-3	1,1-Dichloroethane	20	U
67-66-3	Chloroform	20	U
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon Tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	U
108-88-3	Toluene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U
1330-20-7	Total Xylenes	20	U
75-71-8	Dichlorodifluoromethane	20	U
75-69-4	Trichlorofluoromethane	20	U

6/22/06

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983902

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7366.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	20	U
156-59-2	cis-1,2-Dichloroethene	20	U
110-82-7	Cyclohexane	20	U
108-87-2	Methylcyclohexane	20	U
106-93-4	1,2-Dibromoethane	20	U
98-82-8	Isopropylbenzene	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
79-20-9	Methyl acetate	20	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

MW-2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983902

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7366.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983903

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7356.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	52	
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	46	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	45	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	94	B
108-88-3	Toluene	45	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	44	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-69-4	Trichlorofluoromethane	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983903

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7356.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
110-82-7	Cyclohexane	10	U
108-87-2	Methylcyclohexane	10	U
106-93-4	1,2-Dibromoethane	10	U
98-82-8	Isopropylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
79-20-9	Methyl acetate	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

MW-3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983903

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7356.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983904

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7391.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/15/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	40	U
74-83-9	Bromomethane	40	U
75-01-4	Vinyl chloride	40	U
75-00-3	Chloroethane	40	U
75-09-2	Methylene chloride	40	U
67-64-1	Acetone	40	U
75-15-0	Carbon Disulfide	40	U
75-35-4	1,1-Dichloroethene	40	U
75-34-3	1,1-Dichloroethane	40	U
67-66-3	Chloroform	40	U
107-06-2	1,2-Dichloroethane	40	U
78-93-3	2-Butanone	40	U
71-55-6	1,1,1-Trichloroethane	40	U
56-23-5	Carbon Tetrachloride	40	U
75-27-4	Bromodichloromethane	40	U
78-87-5	1,2-Dichloropropane	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
79-01-6	Trichloroethene	40	U
124-48-1	Dibromochloromethane	40	U
79-00-5	1,1,2-Trichloroethane	40	U
71-43-2	Benzene	40	U
10061-02-6	trans-1,3-Dichloropropene	40	U
75-25-2	Bromoform	40	U
108-10-1	4-Methyl-2-pentanone	40	U
591-78-6	2-Hexanone	40	U
127-18-4	Tetrachloroethene	40	U
108-88-3	Toluene	28	J
79-34-5	1,1,2,2-Tetrachloroethane	40	U
108-90-7	Chlorobenzene	40	U
100-41-4	Ethylbenzene	130	
100-42-5	Styrene	40	U
1330-20-7	Total Xylenes	1000	
75-71-8	Dichlorodifluoromethane	40	U
75-69-4	Trichlorofluoromethane	40	U

6/22/06

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.: MW-4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983904

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7391.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/15/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	40	U
156-60-5	trans-1,2-Dichloroethene	40	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	40	U
156-59-2	cis-1,2-Dichloroethene	40	U
110-82-7	Cyclohexane	40	U
108-87-2	Methylcyclohexane	40	U
106-93-4	1,2-Dibromoethane	40	U
98-82-8	Isopropylbenzene	680	
541-73-1	1,3-Dichlorobenzene	40	U
106-46-7	1,4-Dichlorobenzene	40	U
95-50-1	1,2-Dichlorobenzene	40	U
96-12-8	1,2-Dibromo-3-chloropropane	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
79-20-9	Methyl acetate	40	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

MW-4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983904

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7391.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Date Analyzed: 09/15/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 10

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	TRIMETHYLBENZENE ISOMER	9.86	310	J
2.	ALKYLBENZENE DERIVATIVE	10.06	290	J
3.	TRIMETHYLBENZENE ISOMER	10.20	1100	J
4.	TRIMETHYLBENZENE ISOMER	10.58	390	J
5.	AROMATIC DERIVATIVE	10.76	420	J
6.	ALKYLBENZENE DERIVATIVE	10.79	140	J
7.	ALKYLBENZENE DERIVATIVE	11.11	140	J
8.	TETRAMETHYLBENZENE ISOMER	11.46	140	J
9.	AROMATIC DERIVATIVE	11.81	230	J
10. 91-20-3	NAPHTHALENE	12.30	160	JN

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983905

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7341.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-69-4	Trichlorofluoromethane	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
ANALYSIS DATA SHEET

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983905

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7341.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-t-Butyl Ether (MTBE)	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
110-82-7	Cyclohexane	10	U
108-87-2	Methylcyclohexane	10	U
106-93-4	1,2-Dibromoethane	10	U
98-82-8	Isopropylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
79-20-9	Methyl acetate	10	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - EPA ASP00 - VOLATILES - W
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983905

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q7341.RR

Level: (low/med) LOW Date Samp/Recv: 09/09/2005 09/09/2005

% Moisture: not dec. _____ Date Analyzed: 09/14/2005

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - W
ANALYSIS DATA SHEET

Client No.: MW-1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983901

Sample wt/vol: 1060.00 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: 09/09/2005 09/09/2005

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/13/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 1.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
64475-85-0	Mineral Spirits	0.94	U
----------	Other-1	0.94	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - W
ANALYSIS DATA SHEET

Client No.: MW-2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983902

Sample wt/vol: 1060.00 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: 09/09/2005 09/09/2005

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/13/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 1.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
64475-85-0	Mineral Spirits	0.94	U
----------	Other-1	0.94	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - W
ANALYSIS DATA SHEET

Client No.: MW-3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983903

Sample wt/vol: 1060.00 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: 09/09/2005 09/09/2005

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/13/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 1.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
64475-85-0	Mineral Spirits	0.94	U
----------	Other-1	0.94	U

COD SALES
SPEEDY'S CLEANERS BROWNFIELD CLEANUP
SPEEDY - METHOD 310.13 - PETROLEUM PRODUCTS - W
ANALYSIS DATA SHEET

Client No.: MW-4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A5983904

Sample wt/vol: 1060.00 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: 09/09/2005 09/09/2005

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/13/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 1.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
64475-85-0	Mineral Spirits	0.94	U
----------	Other-1	9.7	

Chain of Custody Record

STL-4124 (0901)

Bill to: Mr. Chris Williams
Christopher Williams Agency Inc.
P.O. Box 499
Pittsford, NY 14534-0499

SEVERN TRENT **STL**
Severn Trent Laboratories, Inc.

Report to:

Client: Passero Assoc.	Project Manager: Peter Morton	Date: 9/9/05	Chain of Custody Number: 241748
Address: 100 Liberty Pole Way	Telephone Number (Area Code)/Fax Number: 585-325-1000/585-325-1691	Lab Number:	Page 1 of 1
City: Rochester; State: NY; Zip Code: 14604	Site Contact: P. Morton; Lab Contact: Vandette		
Project Name and Location (State): Speedy's Cleaners BCP, 3130 Monroe Ave Pittsford NY 14534	Carrier/Waybill Number: D+M Enterprises Inc		
Contract/Purchase Order/Quote No.: 99018.14			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Pet Pro 310.13	Asp 06	Special Instructions/ Conditions of Receipt
MW-1	9/9/05	910		✓				1		3			1	3	
MW-2	9/9/05	1045		✓				1		3			1	3	
MW-3	9/9/05	1315		✓				1		3			1	3	
MW-4	9/9/05	1458		✓				1		3			1	3	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	9/9/05	1625	1. Received By: [signature] STL	09/09/05	1625
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy