Phase II Environmental Site Assessment
15 Richmond Street
City of Rochester, New York 14604

June 15, 2010

Executive Summary

Stantec Consulting Services Inc. (Stantec) conducted a Phase II Environmental Site Assessment (ESA) at 15 Richmond Street (the Site) in May 2010. The Site is located in the City of Rochester, Monroe County, New York southeast of the intersection of Richmond Street and East Main Street. A map of the site location is presented on Figure 1. As shown on a site plan presented on Figure 2, the site is a 30x120 foot parking lot extending between Richmond Street on the north and Haags Alley on the south.

During a series of previous investigations by others of the block of properties located directly south of the subject property between Haags Alley and Charlotte Street, petroleum contamination was found in soil, groundwater, and bedrock originating from on- and off-site sources. Buildings, underground storage tanks, and underground lifts were removed and 1,900 tons of soil were excavated and disposed of off-site pursuant to a New York State Department of Conservation (NYSDEC) approved Corrective Action Plan. The NYSDEC issued a letter on January 31, 2005 approving the Corrective Action Plan dated October 2001, the Interim Remedial Measure Report dated October 2002, and the Environmental Engineering Control Plan prepared by Day Engineering on behalf of the City of Rochester.

Soil and groundwater analysis done during the previous investigations documented in those reports also detected contamination by dry cleaning solvent related compounds in samples collected in the Haags Alley right of way adjacent to the south end of the subject property. The previous investigation reports identified a dry cleaner located adjacent to the west side of the subject property at 527 East Main Street as a suspected source of the Haags Alley contamination. The previous investigation reports also indicate that the subject property is downgradient of the dry cleaner.

This report describes the Phase II ESA investigation activities, methods and results. The Phase II ESA was performed for Richmond Street LLC, which is interested in purchasing the property. The purpose of the Phase II ESA was to investigate potential contamination from the adjacent dry cleaners, the historical auto repair shops formerly located in the Haags Alley/Charlotte Street block, and an historical auto painting shop reportedly located on the adjacent property to the east.

Four soil test borings, four temporary monitoring wells, and two temporary soil vapor points were installed for the purposes of collecting soil, groundwater, and soil vapor samples on the subject property. The sampling locations included locations near the identified historical features on adjacent properties that represented recognized environmental conditions.

The results of the Phase II ESA indicate the presence of contamination by dry cleaning solvent compounds in soil, groundwater, and soil vapor. Petroleum-based dry cleaning solvent (Stoddard solvent) compounds were detected at relatively high concentrations in all three

media, and chlorinated dry cleaning solvent compounds were detected at relatively high concentrations in groundwater and soil vapor. Concentrations of volatile organic compounds (VOCs) in soil were above applicable soil cleanup objectives (SCOs) established by the NYSDEC in samples from the B-2 and B-3 test borings. Impacts by aromatic VOCs were detected in groundwater samples from all four sampling locations at concentrations exceeding ambient groundwater quality standards and guidance values established in NYSDEC's Division of Water Technical and Operational Guidance Series (TOGS) Memorandum 1.1.1, and chlorinated VOCs were detected above TOGS standards in the groundwater samples from the B-2 and B-3 locations. Significant levels of aromatic and chlorinated VOCs were detected in both soil vapor samples indicating potential soil vapor intrusion for any future buildings on the subject property, and for the existing occupied buildings on the adjoining properties.

Given the significantly lower impacts in the soil and groundwater samples collected from the B-4 location, which was adjacent to Richmond Street and east (on the down-gradient side) of the former residential building that occupied the northern portion of the subject site until the 1980s, there is no indication that impacts detected at the site are the result of an on-site source or an off-site source located to the north along Richmond Street. Instead, the source of the impacts clearly appears to be the past use of the adjacent property to the west as a dry cleaner.

It is recommended that the NYSDEC be provided with these results. The report to NYSDEC should include a request that NYSDEC initiate efforts to address, or seek to have the responsible parties address, the on-site contamination as well as the off-site source of the contamination identified herein.

Table of Contents

SUMMARY i

1.0 INTRODUCTION 1

2.0 PHASE II INVESTIGATION 1
2.1 INVESTIGATION ACTIVITIES 1
2.2 INVESTIGATION RESULTS 3
2.2.1 Analytical Results for Soil Samples 3
2.2.2 Analytical Results for Water Samples 4

3.0 CONCLUSIONS AND RECOMMENDATIONS 5

Figures

Figure 1 - Site Location Map
Figure 2 - Sample Location Plan

Tables

Table 1 - Summary of PID Headspace Readings
Table 2 - Soil Sample Summary
Table 3 - Well Completion Summary
Table 4 - Groundwater Sample Summary
Table 5 - Summary of Soil Analytical Results – Petroleum Hydrocarbons, Volatile Organic Compounds and VOC TICs
Table 6 - Summary of Soil Analytical Results – Semi-Volatile Organic Compounds and TICs
Table 7 - Summary of Soil Analytical Results – Metals
Table 8 - Summary of Groundwater Analytical Results – Volatile Organic Compounds and TICs
Table 9 - Summary of Soil Vapor Analytical Results

Appendices

A - Test Boring Logs
B - Laboratory Analytical Reports

1.0 Introduction

On May 18 and 19, 2010 Stantec Consulting Services Inc. (Stantec) conducted a Phase II Environmental Site Assessment (ESA) at 15 Richmond Street in the City of Rochester, Monroe County, New York (the Site). The Site location is shown on the attached Figure 1.

The Phase II ESA was performed concurrently with a Phase I Environmental Site Assessment (provided under separate cover) to investigate potential contamination from adjacent dry cleaners, historical auto repair shops, and an historical auto painting shop (all located off-site). The Phase II ESA was performed to investigate soil, groundwater, and soil vapor conditions on the property.

2.0 Phase II Investigation

2.1 INVESTIGATION ACTIVITIES

The investigation program involved soil test borings, soil sampling, temporary monitoring well installation, groundwater sampling, temporary soil vapor implant installation, and soil vapor sampling.

Subcontracted drilling services were provided by GeoLogic NY Inc. of Homer, New York (GeoLogic) using direct push and rotary drilling equipment. Stantec personnel performed technical and health & safety monitoring and logging of drilling activities.

Prior to initiating the drilling program, GeoLogic contacted the Underground Facilities Protective Organization (UFPO), to locate publicly owned utilities in the areas to be investigated. Drilling and sampling activities were performed on May 18 and 19, 2010. Four test borings were installed, and temporary monitoring wells were installed in each of these borings. Test boring locations are shown on Figure 2. Previous investigations by others of several properties in the adjacent Haags Street and Charlotte Street block to the south, including in the Haags Alley right of way adjacent to the subject property, indicate that groundwater flow is generally to the east, and borings were installed at locations anticipated to be downgradient of suspected contaminant sources. The borings were drilled to depths ranging from 8.6 to 11 feet below ground surface (ft bgs). Soil conditions for individual borings are described on boring logs provided in Appendix A.

Continuous samples were collected using a 4-foot Macrocore sampler at each soil boring location. Soil samples were screened for the presence of volatile organic vapors using a calibrated photoionization detector (PID) equipped with a 10.6 eV lamp. Portions of each soil

sample were placed in individual sealed containers, and the volatile organic vapors that accumulated within the headspace of the containers were screened using the PID. A summary of PID headspace readings is provided in Table 1. Soil samples were also visually evaluated for indications of staining, oils, fill, etc. Visual screening results are recorded on the test boring logs presented in Appendix A.

Field screening and soil logging results were used to select one soil sample from each test boring for laboratory analysis. The samples were selected on the basis of the presence of elevated PID readings. The sample intervals selected were those that exhibited the strongest indications of potential contamination. The four soil samples selected are described on Table 2. Samples were submitted to Paradigm Environmental Services Inc. of Rochester, New York (Paradigm) for analysis of United States Environmental Protection Agency (EPA) Target Compound List (TCL) and New York State Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) volatile organic compounds (VOCs) plus Tentatively Identified Compounds (TICs) by EPA Method 8260, STARS semi-volatile organic compounds (SVOCs) plus TICs by EPA Method 8270, and Resource Conservation and Recovery Act (RCRA) metals by EPA Method SW846 6010 and SW846 7471. The sample from B-2 was also submitted for a Petroleum Hydrocarbon (PHC) scan.

The temporary monitoring wells were constructed with 1-inch or 2-inch PVC. Screen lengths were 5 feet and straddled the apparent water table. Table 3 details the monitoring well construction.

Groundwater sampling was performed at each of the four locations immediately after well installation. The sampling was performed by Stantec personnel using dedicated disposable bailers (see Table 4). One groundwater sample was collected from each of the wells and submitted to Paradigm. As summarized on Table 4, groundwater samples were analyzed for TCL and STARS VOCs plus TICs by EPA Method 8260B.

Following sampling, the wells were abandoned; the well screen was removed, and the borehole was then grouted. At two of the locations, B-2 and B-3, the wells were grouted to 5’ bgs and a temporary soil vapor point was installed. Based on soil observations and water level measurements in the wells, the implants were installed at a depth of 5 ft bgs, above the water table. The vapor probes consisted of a stainless steel screen attached to soil gas tubing (i.e. ¼ I.D. laboratory grade HDPE). The borehole annulus was then backfilled around the sample screen with glass beads to form the sampling zone. The sampling zone was sealed with bentonite to near the surface.

On May 19, 2010, soil vapor samples were taken at locations B-2 and B-3. Samples were collected using stainless steel sample canisters and two hour flow controllers and were sent to Paradigm for analysis of VOCs by EPA TO-15. Soil vapor implants were then removed. The pavement was repaired with asphalt cold patch at borings B-1, B-2, and B-3, and was repaired with cement at B-4.

Soil cuttings were placed in a 55-gallon drum. Drilling equipment was decontaminated prior to use and between borehole locations using an Alconox soap and potable water wash followed by a potable water rinse. Spent decontamination solutions were placed in a 55-gallon drum. The one soil cuttings drum and one purge water and decontamination water drum were placed neatly on-site to await disposal.

2.2 INVESTIGATION RESULTS

Copies of the laboratory analytical reports are provided in Appendix B. Summaries of the analytical results for soil are presented in Tables 5, 6, and 7, groundwater in Table 8, and soil vapor in Table 9. Tables 5, 6, and 7 also present comparison of the concentrations detected in site soil samples to soil cleanup objectives (SCOs) established for assessing health risks at commercial use sites regulated by the New York State Department of Environmental Conservation (NYSDEC). Table 8 presents a comparison of the concentrations of analytes detected in site groundwater samples to groundwater quality standards established by NYSDEC. As there are no established regulatory standards or guidance concentrations available for VOCs in soil vapor, Table 9 presents only the soil vapor concentrations.

2.2.1 Results for Soil Samples

The B-1, B-2, and B-3 locations exhibited elevated PID field screening readings, and the B-4 location exhibited slightly elevated PID readings. Peak PID readings reached 923 parts per million (ppm) in B-1 (7 ft bgs), 1,259 ppm in B-2 (8 ft bgs), 1,155 ppm in B-3 (6 ft bgs), and 62 ppm in B-4 (9 ft bgs). Petroleum odors were noted beginning at around 6-7 ft bgs in B-1, B-2, and B-3. Top of rock was found at approximately 9-11 ft bgs, and groundwater occurred at approximately 8 ft bgs.

1,2,4-Trimethylbenzene was detected in the B-2 soil sample (415,000 micrograms per kilogram (µg/kg)) at a concentration above the NYSDEC SCO for commercial use (190,000 µg/kg) at sites subject to 6 NYCRR Part 375 regulations under NYSDEC's Division of Environmental Remediation programs. VOCs were detected below commercial use SCOs at B-1, B-2, and B-3, and VOC TICs were detected at all four locations. The total VOC TICs from samples B-2 (1,929,800 µg/kg) and B-3 (714,700 µg/kg) both exceeded the 500,000 µg/kg cap on petroleum hydrocarbons used by NYSDEC to assess petroleum spill contamination.

Although Table 5 does not list NYSDEC's SCOs for protection of groundwater, most of the detected concentrations of target VOCs in samples from B-1, B-2, and B-3 exceed those SCOs. The potential impact on groundwater conditions represented by the contamination detected in soil is instead reflected by the groundwater sample results discussed in the next section.

The PHC analysis performed on the B-2 soil sample indicated that the sample contained 12,000,000 parts per billion (ppb) of a light weight PHC matching the lab's mineral spirits standard. The lab's mineral spirits standard is a mixture of the several very similar petroleum products included in the mineral spirit category, one of which is Stoddard solvent. Although further distinction was not possible, we conclude from the PHC and the VOC analytical results

that the source of the aromatic VOCs detected in the site samples is likely to have been a release of Stoddard solvent from the dry cleaning facility on the adjacent property.

Naphthalene (4,670 µg/kg) and phenanthrene (327 µg/kg) were detected in the B-2 sample at concentrations below the commercial use SCOs (500,000 µg/kg each). SVOC TICs were detected at all four locations.

Aluminum, barium, chromium, and lead were detected below commercial use SCOs at each location. Mercury was detected below the commercial use SCO in the B-1 and B-4 samples.

2.2.2 Analytical Results for Water Samples

As shown on the below table, 12 compounds were detected at concentrations above Technical and Operational Guidance Series (TOGS 1.1.1) Groundwater Standards in samples from B-1, B-2, and B-3. The highest concentrations were generally reported in B-1 and B-2 which are adjacent to and immediately downgradient from the former dry cleaner. The B-4 sample only slightly exceeded the benzene standard. VOC TICs were detected in groundwater samples from all four locations.

Compound	Units	TOGS	B-1	B-2	B-3	B-4
Benzene	µg/L	1	ND	ND	ND	*1.08*
Butylbenzene, n-	µg/L	5	*5,290*	*1,530*	*902*	ND
Cymene (p-Isopropyltoluene)	µg/L	5	*2,710*	*920*	*521*	ND
Ethylbenzene	µg/L	5	*314*	*240*	*247*	ND
Isopropylbenzene	µg/L	5	*702*	ND	ND	ND
Naphthalene	µg/L	10	*1,760*	ND	ND	ND
Phenylbutane, 2- (sec-Butylbenzene)	µg/L	5	*1,840*	*618*	ND	ND
Propylbenzene, n-	µg/L	5	*2,710*	*935*	*682*	ND
Trimethylbenzene, 1,2,4-	µg/L	5	*23,000*	*12,900*	*8,650*	ND
Trimethylbenzene, 1,3,5-	µg/L	5	*3,960*	*2,360*	*1,620*	ND
Xylene, m & p-	µg/L	5	*813*	*1,240*	*895*	ND
Xylene, o-	µg/L	5	*315*	*848*	*289*	ND
Dichloroethylene, cis-1,2-	µg/L	5	ND	*7,330*	*458*	ND
Total VOC TICs	µg/L	n/v	135,520	53,740	34,970	323

ND = Not detected
n/v = No standard/guideline value.

2.2.3 Analytical Results for Soil Vapor Samples

As shown on Table 9, significant levels of aromatic and chlorinated VOCs were detected in the two soil vapor samples submitted. 23,600 micrograms per cubic meter (µg/m^3) cis-1,2-Dichloroethylene and 6,640 µg/m^3 vinyl chloride were reported in the B-2 sample on the east side of the site adjacent to the dry cleaner. Much lower soil vapor concentrations were reported in B-3 on the western downgradient side of the property. While these were not sub-slab soil vapor samples, they indicate that contamination exists in the soil vapor and potential soil vapor intrusion would need to be addressed for any future redevelopment or construction activities at

the site. Further, these results suggest potential soil vapor intrusion for the existing occupied buildings on the adjoining properties.

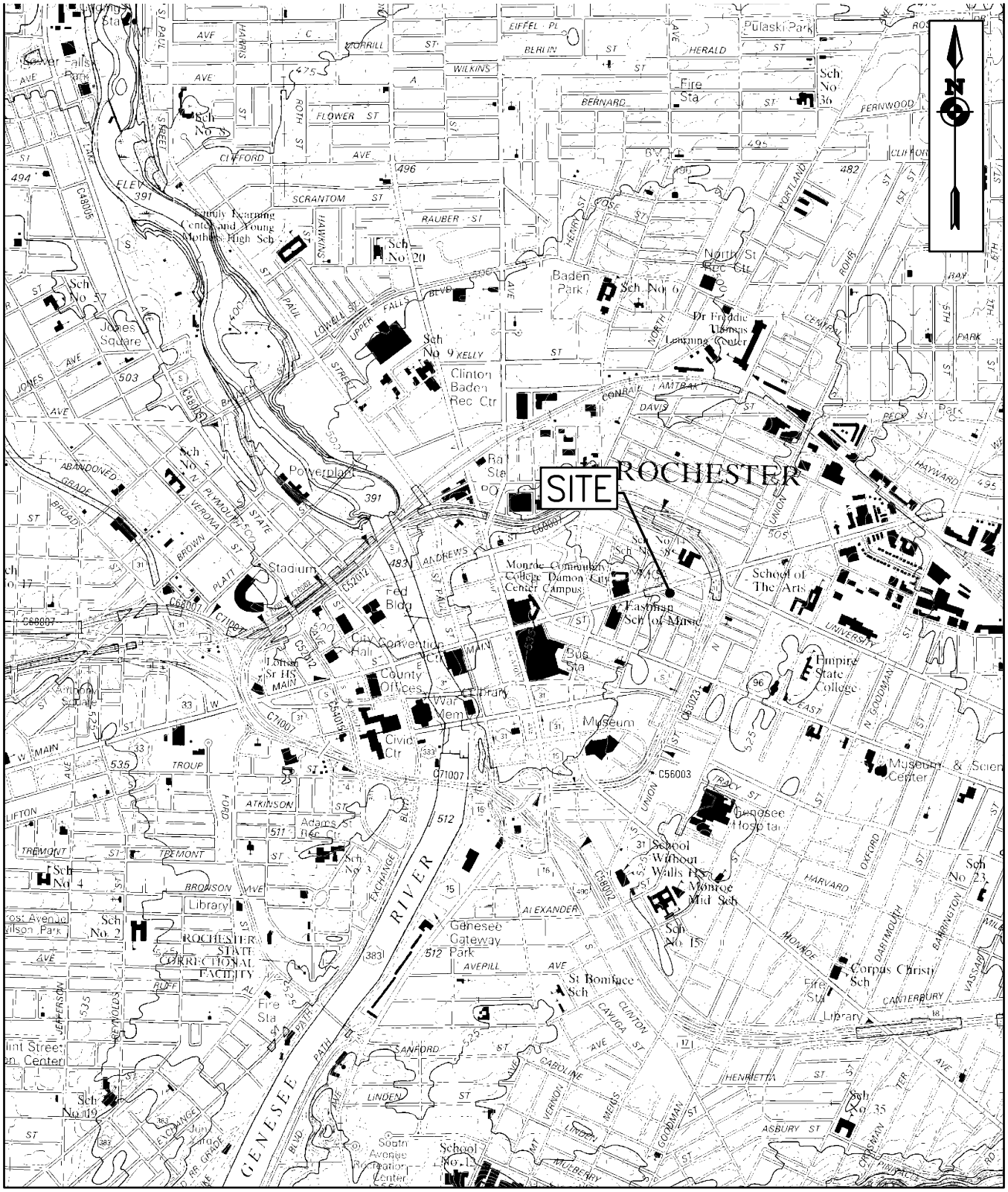
3.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the Phase II ESA indicate the presence of VOC impacts in soil, groundwater, and soil vapor. VOC concentrations in soil were above NYSDEC SCOs for commercial use in the B-2 and B-3 samples. Exceedances of groundwater standards for VOCs were detected in all four locations. Significant amounts of aromatic and chlorinated VOCs were detected in the two soil vapor samples. The greatest concentrations were reported in the sample locations adjacent to the former dry cleaner.

Given the significantly lower impacts in the soil and groundwater samples collected from the B-4 location, which was adjacent to Richmond Street and on the downgradient side of the former location of the residential building that once occupied the northern portion of the site, there is no indication that impacts detected at the site are the result of an onsite source or an off-site source originating along Richmond Street. Instead, the source of the impacts clearly appears to have been the past use of the adjacent property to the west as a dry cleaner. It appears to be considerably less likely that the previously remediated areas of petroleum contamination on the Charlotte Street properties located south of Haags Alley are sources of the Stoddard and chlorinated solvent contamination detected in on-site samples.

It is recommended that the NYSDEC be provided with these results. The report to NYSDEC should include a request that NYSDEC initiate efforts to address, or seek to have the responsible parties address, the on-site contamination as well as the off-site source of the contamination identified herein.

FIGURES



SCALE IN FEET

May, 2010
190500605

Legend

Stantec Counsulting
2250 Brighton-Henrietta Townline Rd.
Rochester NY U.S.A.
14623-2706
Tel. 585.475.1440
Fax. 585.424.5951
www.stantec.com

Client/Project
Phase II Environmental Site Assessment
15 Richmond Street , City of Rochester

Figure No.
1.0

Title
Site Location Map

U:\190500605\drawing\FIG1.dwg
2010-05-21 1:59 PM By:Less, Andy

This map may contain data from a variety of sources. This map is not intended to replace a survey by a Licensed Surveyor.
Stantec does not certify the accuracy of the data. This map is for reference only and should not be used for construction.

Legend

Phase II ESA Test Borings

500 E Main St
516-522 E Main St
Scio St
E Main St
Beecher St
551-559 E Main St
26 Richmond St
28 Richmond St
Richmond St
30 Richmond St
34 Richmond St
B-4
527-533 E Main St
515-525 E Main St
15 Richmond St
B-2
17-19 Richmond St
B-3
21 Richmond St
B-1
23 Richmond St
511 E Main St
25 Richmond St
27 Richmond St
Haags Aly
29-33 Richmond St
14-16 Charlotte St
26 Charlotte St
28-30 Charlotte St
94-100 Scio St
32-34 Charlotte St
36 Charlotte St
42 Charlotte St
48-58 Charlotte St
35 Richmond St
37 Richmond St

Note:
1. Map source : Aerial Photogrammetry was obtained from the NYS GIS Clearinghouse
2. Tax Parcel Information was obtained from Monroe County GIS latest version.
3. Boring locations were determined by Stantec from a tape measurement survey performed on dated May 18, 2010

Geographic Information Systems

Cartographic Design By: Andrew Less

Friday, May 21, 2010 7:53:10 AM
U:\190500605\drawing\Fig2.mxd

Stantec Consulting
2250 Brighton Henrietta Townline Road
Rochester, NY 14623
Phone 585.475.1440 Fax 585.424.5951
www.stantec.com
Copyright 2007

30 15 0 30 60 Feet

1 inch = 30 feet

N

Figure 2 - Sample Location Plan
Phase II Environmental Site Assessment
15 Richmond Street, City of Rochester

TABLES

TABLE 1
SUMMARY OF PID HEADSPACE READINGS
Phase II ESA
15 Richmond Street
Rochester, New York

Borehole	Date	Depth (ft bgs)	PID Readings	
			Peak (ppm)	Background (ppm)
B-1	5/18/2010	0-2	0.6	0.5
		2-4	0.5	0.5
		4-6	0.4	0.5
		6-7	115.0	0.5
		7-8	923.0	0.5
		8.5-11	721.0	0.5
B-2	5/18/2010	0-2	1.9	0.7
		2-4	20.0	0.7
		4-6	33.4	0.7
		6-7	987	0.7
		7-8	1096	0.7
		8-8.5	1259	0.7
		8.5-8.6	751	0.7
B-3	5/18/2010	0-2	0.9	0.6
		2-4	0.9	0.6
		4-6	3.8	0.6
		6-7	1155.0	0.6
		7-8	986.0	0.6
		8-8.6	712.0	0.6
B-4	5/18/2010	0-2	0.6	0.5
		2-4	1.1	0.5
		4-6	1.0	0.5
		6-8	0.6	0.5
		8-9	1.1	0.5
		9-9.7	62.5	0.5

Key:
ft bgs = Feet below ground surface
PID = Photoionization detector
ppm = Parts per million

Note: PID data collected with MiniRAE 2000 equipped with 10.6 eV lamp.

TABLE 2
SOIL SAMPLE SUMMARY
Phase II ESA
15 Richmond Street
Rochester, New York

Sample ID	Sample Location	Sample Depth (ft bgs)	Sample Date	Parameters			
				TCL/STARS VOCs + TICs by EPA Method 8260B	STARS SVOCs + TICs by EPA Method 8270D	RCRA Metals	PHC Scan
B-1	B-1	7-8	5/18/2010	X	X	X	N/A
B-2	B-2	8-8.5	5/18/2010	X	X	X	X
B-3	B-3	7-8	5/18/2010	X	X	X	N/A
B-4	B-4	9-9.7	5/18/2010	X	X	X	N/A
soil-waste	drum	NA	5/18/2010	N/A	N/A	N/A	N/A

Key:
EPA = United States Environmental Protection Agency
STARS = Spill Technology and Remediation Series
VOCs = Volatile Organic Compounds
SVOCs = Semivolatile Organic Compounds
TICs = Tentatively Identified Compounds
RCRA = Resource Conservation and Recovery Act
PHC = petroleum hydrocarbon
ft bgs = Feet below ground surface
NA = not analyzed

TABLE 3
WELL COMPLETION SUMMARY
Phase II ESA
15 Richmond Street
Rochester, New York

Well	Well Diameter (in)	Bentonite Seal (ft bgs)	Sandpack Interval (ft bgs)	Screened Interval (ft bgs)	Total Depth (ft bgs)
B-1	1.0	NA	NA	5-10	10
B-2	1.0	NA	NA	3.6-8.6	8.6
B-3	1.0	NA	NA	3.6-8.6	8.6
B-4	1.0	NA	NA	4-9	9.7

Key:
ft bgs = Feet below ground surface
in = Inches

Soil vapor implants installed at 5' bgs at locations B-2 and B-3. Completed with sand and bentonite.

TABLE 4
GROUNDWATER SAMPLE SUMMARY
Phase II ESA
15 Richmond Street
Rochester, New York

				Parameters
Sample ID	**Sample Location**	**Date**	**Method**	TCL STARS VOCs + TICs by EPA Method 8260B
B-1	B-1	05/18/10	Bailer	X
B-2	B-2	05/18/10	Bailer	X
B-3	B-3	05/18/10	Bailer	X
B-4	B-4	05/18/10	Bailer	X
waste-w	drum	05/18/10	Bailer	N/A

Key:
EPA = United States Environmental Protection Agency
STARS = Spill Technology and Remediation Series
VOCs = Volatile Organic Compounds
TCL = Target Compound List
TICs = Tentatively Identified Compounds
NA = not analyzed

TABLE 5
SUMMARY OF SOIL ANLAYTICAL RESULTS - PETROLEUM HYDROCARBONS, VOLATILE ORGANIC COMPOUNDS AND VOC TICS
15 RICHMOND STREET
CITY OF ROCHESTER, NEW YORK

Sample Location			B-1	B-2		B-3	B-4
Sample Date			18-May-10	18-May-10	18-May-10	18-May-10	18-May-10
Sample ID			B-1	B-2	B-2	B-3	B-4
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			10-2024	10-2024	10-2024	10-2024	10-2024
Laboratory Sample ID			6958	6959	6959R	6960	6961
Sample Type	**Units**	**6NYCRR**					
Aromatics							
Benzene	µg/kg	44000[A]	590 U	3600 U	-	769 U	6.77 U
Butylbenzene, n-	µg/kg	500000[c,A]	**8730**	**75100**	-	**11200**	33.8 U
Butylbenzene, tert-	µg/kg	500000[c,A]	1480 U	8990 U	-	1920 U	16.9 U
Chlorobenzene (Monochlorobenzene)	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Cymene (p-Isopropyltoluene)	µg/kg	500000[c,A]	**4900**	**40900**	-	**7600**	33.8 U
Dichlorobenzene, 1,2-	µg/kg	500000[c,A]	1480 U	8990 U	-	1920 U	16.9 U
Dichlorobenzene, 1,3-	µg/kg	280000[A]	1480 U	8990 U	-	1920 U	16.9 U
Dichlorobenzene, 1,4-	µg/kg	130000[A]	590 U	3600 U	-	769 U	6.77 U
Ethylbenzene	µg/kg	390000[A]	590 U	**5920**	-	**1450**	6.77 U
Isopropylbenzene	µg/kg	500000[c,A]	2950 U	18000 U	-	3840 U	33.8 U
Naphthalene	µg/kg	500000[c,A]	1480 U	**9760**	-	1920 U	16.9 U
Phenylbutane, 2- (sec-Butylbenzene)	µg/kg	500000[c,A]	**4440**	**27000**	-	**4660**	6.77 U
Propylbenzene, n-	µg/kg	500000[c,A]	**5770**	**43100**	-	**8410**	6.77 U
Styrene	µg/kg	500000[c,A]	1480 U	8990 U	-	1920 U	16.9 U
Toluene	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Trimethylbenzene, 1,2,4-	µg/kg	190000[A]	**32800**	**415000[A]**	-	**78600**	6.77 U
Trimethylbenzene, 1,3,5-	µg/kg	190000[A]	**2410**	**119000**	-	**11200**	6.77 U
Xylene, m & p-	µg/kg	500000[c,p,A]	590 U	**29200**	-	**1470**	6.77 U
Xylene, o-	µg/kg	500000[c,p,A]	590 U	**10900**	-	769 U	6.77 U
Halocarbons							
Bromodichloromethane	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Bromoform	µg/kg	500000[c,A]	1480 U	8990 U	-	1920 U	16.9 U
Bromomethane	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Carbon Tetrachloride (Tetrachloromethane)	µg/kg	22000[A]	1480 U	8990 U	-	1920 U	16.9 U
Chlorinated Fluorocarbon (Freon 113)	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Chloroethane	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Chloroethyl Vinyl Ether, 2-	µg/kg	n/v	2950 U	18000 U	-	3840 U	33.8 U
Chloroform	µg/kg	350000[A]	590 U	3600 U	-	769 U	6.77 U
Chloromethane	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Dibromochloromethane	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Dichloroethane, 1,1-	µg/kg	240000[A]	590 U	3600 U	-	769 U	6.77 U
Dichloroethane, 1,2-	µg/kg	30000[A]	590 U	3600 U	-	769 U	6.77 U
Dichloroethylene, 1,1-	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Dichloroethylene, cis-1,2-	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Dichloroethylene, trans-1,2-	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Dichloropropane, 1,2-	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Dichloropropene, cis-1,3-	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Dichloropropene, trans-1,3-	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Methylene Chloride (Dichloromethane)	µg/kg	500000[c,A]	1480 U	8990 U	-	1920 U	16.9 U
Tetrachloroethane, 1,1,2,2-	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Tetrachloroethylene	µg/kg	150000[A]	590 U	3600 U	-	769 U	6.77 U
Trichloroethane, 1,1,1-	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Trichloroethane, 1,1,2-	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Trichloroethylene	µg/kg	200000[A]	590 U	3600 U	-	769 U	6.77 U
Trichlorofluoromethane (Freon 11)	µg/kg	n/v	590 U	3600 U	-	769 U	6.77 U
Vinyl chloride	µg/kg	13000[A]	590 U	3600 U	-	769 U	6.77 U
Ketones							
Acetone	µg/kg	500000[c,A]	2950 U	18000 U	-	3840 U	33.8 U
Hexanone, 2-	µg/kg	500000[c,A]	1480 U	8990 U	-	1920 U	16.9 U
Methyl Ethyl Ketone (MEK)	µg/kg	500000[c,A]	2950 U	18000 U	-	3840 U	33.8 U
Methyl Isobutyl Ketone (MIBK)	µg/kg	500000[c,A]	1480 U	8990 U	-	1920 U	16.9 U
Miscellaneous							
Carbon Disulfide	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Methyl tert-butyl ether (MTBE)	µg/kg	500000[c,A]	590 U	3600 U	-	769 U	6.77 U
Vinyl Acetate	µg/kg	n/v	1480 U	8990 U	-	1920 U	16.9 U
Volatile Tentatively Identified Compounds							
Unknown Alkane 01	µg/kg	n/v	**10900**	**55000**	-	**20600**	**97.8**
Unknown Alkane 02	µg/kg	n/v	**9090**	**60000**	-	**13600**	**43.7**
Unknown Alkane 03	µg/kg	n/v	**13400**	**36900**	-	**25000**	**55.2**
Unknown Alkane 04	µg/kg	n/v	**19600**	**76000**	-	**86800**	**321**
Unknown Alkane 05	µg/kg	n/v	**50900**	**188000**	-	**38800**	**190**
Unknown Alkane 06	µg/kg	n/v	**40800**	**214000**	-	**96500**	**128**
Unknown Alkane 07	µg/kg	n/v	**52800**	**69900**	-	**101000**	**198**
Unknown Alkane 08	µg/kg	n/v	**29200**	**153000**	-	**12300**	**116**
Unknown Alkane 09	µg/kg	n/v	**9650**	**129000**	-	**29500**	-
Unknown Alkane 10	µg/kg	n/v	**17200**	**48900**	-	**24100**	-
Unknown Alkane 11	µg/kg	n/v	**21400**	-	-	-	-
Unknown Alkane 13	µg/kg	n/v	**24600**	-	-	-	-
Unknown Alkane 14	µg/kg	n/v	**20000**	-	-	-	-
Unknown Alkane 15	µg/kg	n/v	**10600**	-	-	-	-
Unknown Aromatic 01	µg/kg	n/v	**14600**	**113000**	-	**24600**	**64.0**
Unknown Aromatic 02	µg/kg	n/v	**9410**	**51200**	-	**17800**	**51.1**
Unknown Aromatic 03	µg/kg	n/v	**9770**	**173000**	-	**22500**	-
Unknown Aromatic 04	µg/kg	n/v	**20200**	**47800**	-	-	-
Unknown Aromatic 05	µg/kg	n/v	**9380**	**73300**	-	-	-
Unknown Aromatic 06	µg/kg	n/v	-	**59300**	-	-	-
Unknown Aromatic 07	µg/kg	n/v	-	**38600**	-	-	-
Unknown Aromatic 08	µg/kg	n/v	-	**41200**	-	-	-
Unknown Aromatic 09	µg/kg	n/v	-	**36700**	-	-	-
Unknown TIC 01	µg/kg	n/v	**10400**	**265000**	-	**42800**	**102**
Unknown TIC 02	µg/kg	n/v	-	-	-	**12300**	**262**
Unknown TIC 03	µg/kg	n/v	-	-	-	**54500**	**236**
Unknown TIC 04	µg/kg	n/v	-	-	-	**32100**	**78.5**
Unknown TIC 05	µg/kg	n/v	-	-	-	**18800**	**397**
Unknown TIC 06	µg/kg	n/v	-	-	-	**28600**	**107**
Unknown TIC 07	µg/kg	n/v	-	-	-	**12500**	**47.0**
Unknown TIC 08	µg/kg	n/v	-	-	-	-	**124**
Unknown TIC 09	µg/kg	n/v	-	-	-	-	**95.1**
Unknown TIC 10	µg/kg	n/v	-	-	-	-	**46.7**
Total VOC TICs	µg/kg	500000[c,A]	**403900**	**1929800[A]**	-	**714700[A]**	**2760.1**
Total Petroleum Hydrocarbons							
PHC as Mineral Spirits, Light Range	µg/kg	n/v	-	-	**12000000**	-	-

Notes:

6NYCRR	NYSDEC 6 NYCRR Part 375
[A]	NYSDEC 6 NYCRR Part 375 - Restricted Use SCO - Protection of Human Health - Commercial
6.5[A]	Concentration exceeds the indicated standard.
15.2	Concentration was detected but did not exceed applicable standards.
0.03 U	The analyte was not detected above the laboratory estimated quantitation limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
[c]	The SCOs for commercial use were capped at a maximum value of 500 mg/kg. See TSD Section 9.3.
[c,p]	The SCOs for commercial use were capped at a maximum value of 500 mg/kg. See TSD Section 9.3. The criterion is applicable to total xylenes, and the individual isomers should be added for comparison.

TABLE 6
SUMMARY OF SOIL ANLAYTICAL RESULTS - SEMI-VOLATILE ORGANIC COMPOUNDS AND TICS
15 RICHMOND STREET
CITY OF ROCHESTER, NEW YORK

Sample Location			B-1	B-2	B-3	B-4
Sample Date			18-May-10	18-May-10	18-May-10	18-May-10
Sample ID			B-1	B-2	B-3	B-4
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			10-2024	10-2024	10-2024	10-2024
Laboratory Sample ID			6958	6959	6960	6961
Sample Type	Units	6NYCRR				
Semi - Volatile Organic Compounds						
Acenaphthene	µg/kg	500000$_c$[A]	333 U	323 U	334 U	316 U
Acenaphthylene	µg/kg	500000$_c$[A]	333 U	323 U	334 U	316 U
Anthracene	µg/kg	500000$_c$[A]	333 U	323 U	334 U	316 U
Benzo(a)anthracene	µg/kg	5600[A]	333 U	323 U	334 U	316 U
Benzo(a)pyrene	µg/kg	1000$_g$[A]	333 U	323 U	334 U	316 U
Benzo(b)fluoranthene	µg/kg	5600[A]	333 U	323 U	334 U	316 U
Benzo(g,h,i)perylene	µg/kg	500000$_c$[A]	333 U	323 U	334 U	316 U
Benzo(k)fluoranthene	µg/kg	56000[A]	333 U	323 U	334 U	316 U
Chrysene	µg/kg	56000[A]	333 U	323 U	334 U	316 U
Dibenzo(a,h)anthracene	µg/kg	560[A]	333 U	323 U	334 U	316 U
Fluoranthene	µg/kg	500000$_c$[A]	333 U	323 U	334 U	316 U
Fluorene	µg/kg	500000$_c$[A]	333 U	323 U	334 U	316 U
Indeno(1,2,3-cd)pyrene	µg/kg	5600[A]	333 U	323 U	334 U	316 U
Naphthalene	µg/kg	500000$_c$[A]	333 U	**4670**	334 U	316 U
Phenanthrene	µg/kg	500000$_c$[A]	333 U	**327**	334 U	316 U
Pyrene	µg/kg	500000$_c$[A]	333 U	323 U	334 U	316 U
Semi - Volatile Tentatively Identified Compounds						
Cyclic octaatomic sulfur	µg/kg	n/v	**10300**	-	**2490**	**1650**
Unknown Alkane 01	µg/kg	n/v	**1190**	**171000**	**1520**	**149**
Unknown Alkane 02	µg/kg	n/v	**1610**	**2560**	**2260**	**196**
Unknown Alkane 03	µg/kg	n/v	**2310**	**5420**	**2520**	**250**
Unknown Alkane 04	µg/kg	n/v	**1180**	**4380**	**1790**	**370**
Unknown Alkane 05	µg/kg	n/v	**1220**	**2980**	**986**	**228**
Unknown Alkane 06	µg/kg	n/v	**5690**	-	-	-
Unknown Alkane 07	µg/kg	n/v	**3460**	-	-	-
Unknown Alkane 08	µg/kg	n/v	**1510**	-	-	-
Unknown Alkane 09	µg/kg	n/v	**733**	-	-	-
Unknown Alkane 10	µg/kg	n/v	**703**	-	-	-
Unknown Alkane 11	µg/kg	n/v	**773**	-	-	-
Unknown Aromatic 01	µg/kg	n/v	**1560**	**37000**	**3140**	**168**
Unknown Aromatic 02	µg/kg	n/v	**2520**	**4200**	**6280**	-
Unknown Aromatic 03	µg/kg	n/v	**2290**	**4850**	**1880**	-
Unknown Aromatic 04	µg/kg	n/v	**1880**	**6270**	**1170**	-
Unknown Aromatic 05	µg/kg	n/v	**740**	**1330**	**1730**	-
Unknown Aromatic 06	µg/kg	n/v	-	**17800**	**1150**	-
Unknown Aromatic 07	µg/kg	n/v	-	**7310**	**2430**	-
Unknown Aromatic 08	µg/kg	n/v	-	**3050**	**2260**	-
Unknown Aromatic 09	µg/kg	n/v	-	**1950**	-	-
Unknown Aromatic 10	µg/kg	n/v	-	**2420**	-	-
Unknown Aromatic 11	µg/kg	n/v	-	**2550**	-	-
Unknown Aromatic 12	µg/kg	n/v	-	**1360**	-	-
Unknown Aromatic 13	µg/kg	n/v	-	**1710**	-	-
Unknown TIC 01	µg/kg	n/v	**810**	**29700**	**1090**	**139**
Unknown TIC 02	µg/kg	n/v	**1040**	**2650**	**3180**	**136**
Unknown TIC 03	µg/kg	n/v	**686**	-	**2160**	**149**
Unknown TIC 04	µg/kg	n/v	-	-	**1160**	-
Unknown TIC 05	µg/kg	n/v	-	-	**1290**	-
Unknown TIC 06	µg/kg	n/v	-	-	**1620**	-
Total SVOC TICs	µg/kg	n/v	**42205**	**310490**	**42106**	**3435**

Notes:

6NYCRR	NYSDEC 6 NYCRR Part 375
[A]	NYSDEC 6 NYCRR Part 375 - Restricted Use SCO - Protection of Human Health - Commercial
6.5[A]	Concentration exceeds the indicated standard.
15.2	Concentration was detected but did not exceed applicable standards.
0.03 U	The analyte was not detected above the laboratory estimated quantitation limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
$_c$	The SCOs for commercial use were capped at a maximum value of 500 mg/kg. See TSD Section 9.3.
$_g$	For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the DEC/DOH rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

TABLE 7
SUMMARY OF SOIL ANLAYTICAL RESULTS - METALS
15 RICHMOND STREET
CITY OF ROCHESTER, NEW YORK

Sample Location			B-1	B-2	B-3	B-4
Sample Date			18-May-10	18-May-10	18-May-10	18-May-10
Sample ID			B-1	B-2	B-3	B-4
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			1-Oct-24	1-Oct-24	1-Oct-24	1-Oct-24
Laboratory Sample ID			6958	6959	6960	6961
Sample Type	Units	6NYCRR				
Metals						
Aluminum	mg/kg	10000_e^A	**2.09**	**1.93**	**1.49**	**2.62**
Barium	mg/kg	400^A	**37.2**	**25.7**	**39.9**	**46.2**
Cadmium	mg/kg	9.3^A	0.319 U	0.336 U	0.369 U	0.485 U
Chromium (Total)	mg/kg	NS,q^A	**5.27**	**1.47**	**5.80**	**5.46**
Lead	mg/kg	1000^A	**7.40**	**6.38**	**3.80**	**8.91**
Mercury	mg/kg	2.8_k^A	**0.0238**	0.0083 U	0.0093 U	**0.0738**
Selenium	mg/kg	1500^A	0.319 U	0.336 U	0.369 U	0.485 U
Silver	mg/kg	1500^A	0.637 U	0.674 U	0.739 U	0.970 U

Notes:

6NYCRR	NYSDEC 6 NYCRR Part 375
A	NYSDEC 6 NYCRR Part 375 - Restricted Use SCO - Protection of Human Health - Commercial
6.5^A	Concentration exceeds the indicated standard.
15.2	Concentration was detected but did not exceed applicable standards.
0.50 U	Laboratory estimated quantitation limit exceeded standard.
0.03 U	The analyte was not detected above the laboratory estimated quantitation limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
NS,q	No SCO has been established for this compound. No SCO has been established for total chromium; however, see standards for trivalent and hexavalent chromium. For commercial use, these are 1500 and 400 mg/kg respectively.
e	The SCOS for metals were capped at a maximum value of 10,000 mg/kg. See 6 NYCRR Part 375 TSD Section 9.3.
k	This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See 6 NYCRR Part 375 TSD Table 5.6-1.

TABLE 8
SUMMARY OF GROUNDWATER ANLAYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS AND TICS
15 RICHMOND STREET
CITY OF ROCHESTER, NEW YORK

Sample Location			B-1	B-2	B-3	B-4
Sample Date			18-May-10	18-May-10	18-May-10	18-May-10
Sample ID			B-1	B-2	B-3	B-4
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			10-2024	10-2024	10-2024	10-2024
Laboratory Sample ID			6962	6963	6964	6965
Sample Type	Units	TOGS				
Aromatics						
Benzene	µg/L	1[B]	***70.0 U***	***70.0 U***	***70.0 U***	**1.08[B]**
Butylbenzene, n-	µg/L	5[**,B]	**5290[B]**	**1530[B]**	**902[B]**	5 U
Butylbenzene, tert-	µg/L	5[**,B]	***500 U***	***500 U***	***500 U***	5 U
Chlorobenzene (Monochlorobenzene)	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Cymene (p-Isopropyltoluene)	µg/L	5[**,B]	**2710[B]**	**920[B]**	**521[B]**	5 U
Dichlorobenzene, 1,2-	µg/L	3[B]	***500 U***	***500 U***	***500 U***	***5 U***
Dichlorobenzene, 1,3-	µg/L	3[B]	***500 U***	***500 U***	***500 U***	***5 U***
Dichlorobenzene, 1,4-	µg/L	3[B]	***200 U***	***200 U***	***200 U***	2 U
Ethylbenzene	µg/L	5[**,B]	**314[B]**	**240[B]**	**247[B]**	2 U
Isopropylbenzene	µg/L	5[**,B]	**702[B]**	***500 U***	***500 U***	5 U
Naphthalene	µg/L	10[B]	**1760[B]**	***500 U***	***500 U***	5 U
Phenylbutane, 2- (sec-Butylbenzene)	µg/L	5[**,B]	**1840[B]**	**618[B]**	***500 U***	5 U
Propylbenzene, n-	µg/L	5[**,B]	**2710[B]**	**935[B]**	**682[B]**	2 U
Styrene	µg/L	5[**,B]	***500 U***	***500 U***	***500 U***	5 U
Toluene	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	**2.19**
Trimethylbenzene, 1,2,4-	µg/L	5[**,B]	**23000[B]**	**12900[B]**	**8650[B]**	5 U
Trimethylbenzene, 1,3,5-	µg/L	5[**,B]	**3960[B]**	**2360[B]**	**1620[B]**	5 U
Xylene, m & p-	µg/L	5[**,B]	**813[B]**	**1240[B]**	**895[B]**	2 U
Xylene, o-	µg/L	5[**,B]	**315[B]**	**848[B]**	**289[B]**	2 U
Halocarbons						
Bromodichloromethane	µg/L	50[A]	***200 U***	***200 U***	***200 U***	2 U
Bromoform	µg/L	50[A]	***500 U***	***500 U***	***500 U***	5 U
Bromomethane	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	***500 U***	***500 U***	***500 U***	5 U
Chlorinated Fluorocarbon (Freon 113)	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Chloroethane	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	1000 U	1000 U	1000 U	10 U
Chloroform	µg/L	7[B]	***200 U***	***200 U***	***200 U***	2 U
Chloromethane	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Dibromochloromethane	µg/L	50[A]	***200 U***	***200 U***	***200 U***	2 U
Dichloroethane, 1,1-	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Dichloroethane, 1,2-	µg/L	0.6[B]	***200 U***	***200 U***	***200 U***	***2 U***
Dichloroethylene, 1,1-	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Dichloroethylene, cis-1,2-	µg/L	5[**,B]	***200 U***	**7330[B]**	**458[B]**	2 U
Dichloroethylene, trans-1,2-	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Dichloropropane, 1,2-	µg/L	1[B]	***200 U***	***200 U***	***200 U***	***2 U***
Dichloropropene, cis-1,3-	µg/L	0.4[p,B]	***200 U***	***200 U***	***200 U***	***2 U***
Dichloropropene, trans-1,3-	µg/L	0.4[p,B]	***200 U***	***200 U***	***200 U***	***2 U***
Methylene Chloride (Dichloromethane)	µg/L	5[**,B]	***500 U***	***500 U***	***500 U***	5 U
Tetrachloroethane, 1,1,2,2-	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Tetrachloroethylene	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Trichloroethane, 1,1,1-	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Trichloroethane, 1,1,2-	µg/L	1[B]	***200 U***	***200 U***	***200 U***	***2 U***
Trichloroethylene	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Trichlorofluoromethane (Freon 11)	µg/L	5[**,B]	***200 U***	***200 U***	***200 U***	2 U
Vinyl chloride	µg/L	2[B]	***200 U***	***200 U***	***200 U***	2 U
Ketones						
Acetone	µg/L	50[A]	***1000 U***	***1000 U***	***1000 U***	**13.7**
Hexanone, 2-	µg/L	50[A]	***500 U***	***500 U***	***500 U***	5 U
Methyl Ethyl Ketone (MEK)	µg/L	50[A]	***1000 U***	***1000 U***	***1000 U***	10 U
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	500 U	500 U	500 U	5 U
Miscellaneous						
Carbon Disulfide	µg/L	60[A]	***200 U***	***200 U***	***200 U***	2 U
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	***200 U***	***200 U***	***200 U***	2 U
Vinyl Acetate	µg/L	n/v	500 U	500 U	500 U	5 U
Volatile Tentatively Identified Compounds						
Unknown Alkane 01	µg/L	n/v	**3340**	**4240**	**790**	**9.10**
Unknown Alkane 02	µg/L	n/v	**2890**	**1830**	**2950**	**14.0**
Unknown Alkane 03	µg/L	n/v	**3450**	**4240**	**2050**	**29.4**
Unknown Alkane 04	µg/L	n/v	**5900**	**3390**	**2500**	**13.4**
Unknown Alkane 05	µg/L	n/v	**22700**	**1030**	**2460**	**29.9**
Unknown Alkane 06	µg/L	n/v	**11900**	**5400**	**2510**	**35.4**
Unknown Alkane 07	µg/L	n/v	**15500**	**3340**	**1150**	**13.5**
Unknown Alkane 08	µg/L	n/v	**18900**	**1600**	**1410**	**16.2**
Unknown Alkane 09	µg/L	n/v	**3190**	**3330**	-	**15.4**
Unknown Alkane 10	µg/L	n/v	**5540**	-	-	**8.20**
Unknown Alkane 11	µg/L	n/v	**2590**	-	-	**10.4**
Unknown Alkane 12	µg/L	n/v	**8940**	-	-	**13.4**
Unknown Alkane 13	µg/L	n/v	**5590**	-	-	-
Unknown Alkane 14	µg/L	n/v	**2540**	-	-	-
Unknown Aromatic 01	µg/L	n/v	**2970**	**3330**	**3180**	**10.8**
Unknown Aromatic 02	µg/L	n/v	**8490**	**2000**	**2250**	-
Unknown Aromatic 03	µg/L	n/v	**2970**	**7800**	**5490**	-
Unknown Aromatic 04	µg/L	n/v	**2440**	**1530**	**1110**	-
Unknown Aromatic 05	µg/L	n/v	**2520**	**2050**	**1060**	-
Unknown Aromatic 06	µg/L	n/v	-	**1800**	**1310**	-
Unknown Aromatic 07	µg/L	n/v	-	**1180**	**870**	-
Unknown Aromatic 08	µg/L	n/v	-	**1060**	**730**	-
Unknown Aromatic 09	µg/L	n/v	-	**1090**	**690**	-
Unknown Aromatic 10	µg/L	n/v	-	**1090**	**780**	-
Unknown Aromatic 11	µg/L	n/v	-	-	**760**	-
Unknown TIC 01	µg/L	n/v	**3160**	**2410**	**920**	**8.50**
Unknown TIC 02	µg/L	n/v	-	-	-	**32.8**
Unknown TIC 03	µg/L	n/v	-	-	-	**12.2**
Unknown TIC 04	µg/L	n/v	-	-	-	**22.4**
Unknown TIC 05	µg/L	n/v	-	-	-	**8.60**
Unknown TIC 06	µg/L	n/v	-	-	-	**10.0**
Unknown TIC 07	µg/L	n/v	-	-	-	**9.40**
Total VOC TICs	µg/L	n/v	**135520**	**53740**	**34970**	**323**

Notes:

TOGS	NYSDEC TOGS 1.1.1 (Reissued June 1998 with errata in January 1999 and addenda in April 2000 and June 2004)
A	TOGS 1.1.1 - Table 1 - Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Guidance
B	TOGS 1.1.1 - Table 1 - Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Standards
6.5[A]	Concentration exceeds the indicated standard.
15.2	Concentration was detected but did not exceed applicable standards.
0.50 U	Laboratory estimated quantitation limit exceeded standard.
0.03 U	The analyte was not detected above the laboratory estimated quantitation limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
**	The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in the TOGS table) applies to this substance.
p	Applies to the sum of cis- and trans-1,3-dichloropropene.

TABLE 9
SUMMARY OF SOIL VAPOR ANLAYTICAL RESULTS
15 RICHMOND STREET
CITY OF ROCHESTER, NEW YORK

Sample Location		B-2	B-3	Method Blank
Sample Date		19-May-10	19-May-10	19-May-10
Sample ID		B-2-SV	B-3-SV	Method Blank
Sampling Company		STANTEC	STANTEC	STANTEC
Laboratory		PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order		10-2052	10-2052	10-2052
Laboratory Sample ID		7049	7050	NA
Sample Type	Units			Method Blank
Aromatics				
Benzene	µg/m3	**77.2**	**41.5**	0.325 U
Chlorobenzene (Monochlorobenzene)	µg/m3	8.93 U	9.39 U	0.467 U
Dichlorobenzene, 1,2-	µg/m3	11.6 U	12.2 U	0.609 U
Dichlorobenzene, 1,3-	µg/m3	11.6 U	12.2 U	0.609 U
Dichlorobenzene, 1,4-	µg/m3	11.6 U	12.2 U	0.609 U
Ethylbenzene	µg/m3	**637 E**	**290**	0.442 U
Styrene	µg/m3	8.29 U	8.72 U	0.434 U
Toluene	µg/m3	**948 E**	**250**	0.384 U
Xylene, m & p-	µg/m3	**1590 E**	**676**	0.442 U
Xylene, o-	µg/m3	**763 E**	**177**	0.442 U
Halocarbons				
Bromodichloromethane	µg/m3	12.9 U	13.6 U	0.676 U
Bromoform	µg/m3	19.9 U	21 U	1.04 U
Bromomethane	µg/m3	7.50 U	7.88 U	0.392 U
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	4.86 U	5.1 U	0.254 U
Chlorinated Fluorocarbon (Freon 113)	µg/m3	14.8 U	15.6 U	0.776 U
Chloroethane	µg/m3	10.2 U	10.7 U	0.534 U
Chloroform	µg/m3	9.41 U	9.89 U	0.492 U
Chloromethane	µg/m3	3.99 U	4.19 U	0.209 U
Dibromochloromethane	µg/m3	16.4 U	17.3 U	0.859 U
Dichloroethane, 1,1-	µg/m3	**78.9**	8.22 U	0.409 U
Dichloroethane, 1,2-	µg/m3	7.82 U	8.22 U	0.409 U
Dichloroethylene, 1,1-	µg/m3	7.66 U	8.05 U	0.4 U
Dichloroethylene, cis-1,2-	µg/m3	**23600 E**	**183**	0.4 U
Dichloroethylene, trans-1,2-	µg/m3	**546**	8.05 U	0.4 U
Dichloropropane, 1,2-	µg/m3	17.9 U	18.8 U	0.934 U
Dichloropropene, cis-1,3-	µg/m3	8.77 U	9.22 U	0.459 U
Dichloropropene, trans-1,3-	µg/m3	8.77 U	9.22 U	0.459 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	14.8 U	15.6 U	0.776 U
Methylene Chloride (Dichloromethane)	µg/m3	**102 B**	**64.9 B**	**17.5 E**
Tetrachloroethane, 1,1,2,2-	µg/m3	13.2 U	13.9 U	0.693 U
Tetrachloroethylene	µg/m3	**71.1**	**18.0**	0.684 U
Trichloroethane, 1,1,1-	µg/m3	10.5 U	11.1 U	0.551 U
Trichloroethane, 1,1,2-	µg/m3	10.5 U	11.1 U	0.551 U
Trichloroethylene	µg/m3	**42.7**	5.13 U	0.256 U
Trichlorofluoromethane (Freon 11)	µg/m3	10.8 U	11.4 U	0.657 U
Vinyl chloride	µg/m3	**6640 E**	**43.1**	0.259 U
Ketones				
Acetone	µg/m3	**218 EB**	**85.6 B**	1.21 U
Hexanone, 2-	µg/m3	39.9 U	42.1 U	2.09 U
Methyl Ethyl Ketone (MEK)	µg/m3	**105**	**34.7**	**23.0 E**
Methyl Isobutyl Ketone (MIBK)	µg/m3	39.9 U	42.1 U	2.09 U
Miscellanoeus				
Carbon Disulfide	µg/m3	**228**	32 U	1.59 U
Methyl tert-butyl ether (MTBE)	µg/m3	7.02 U	7.38 U	0.367 U
Vinyl Acetate	µg/m3	6.86 U	7.21 U	0.359 U

Notes:

15.2	Concentration was detected.
0.03 U	The analyte was not detected above the laboratory estimated quantitation limit.
-	Parameter not analyzed / not available.
B	Indicates analyte was found in associated blank, as well as in the sample.
E	Compound was over the calibration range.

APPENDIX A

Stantec

2250 Brighton Henrietta Town L
Rochester, NY 14623
(585) 475-1440

Test Boring No.: B-1

Project:	15 Richmond Street	Drill Contractor:	GeoLogic	Start Date:	5/18/2010
Project #:	190500605	Driller:	D. Lyons	Completion Date:	5/18/010
Client:	15 Richmond Street LLC	Elevation:		Drilling Method:	Geoprobe
Location:	15 Richmond Street Rochester NY	Weather:	Cloudy, 50's F	Supervisor:	D. Bauch-Barker

0	SAMPLE PID	Rec.	No.	Depth	Soil Information Remarks	
	0.1	1.6	1	0-2'	Gray asphalt and dark brown SAND and GRAVEL base, dry.	0
					Brown medium-coarse SAND, some tan ash, black cinder, red crushed brick, moist.	1
	0	2.7	2	2-6'	Black cinder and red crushed brick, dark brown coarse SAND, little tan ash, dry.	2
					Tan medium-coarse SAND, some fine-medium GRAVEL, moist.	2.5
	0				Brown fine-medium SAND, trace dark brown mottling, trace fine GRAVEL, moist-wet.	3.8
5						
	115	2.6	3	6-8.5	Brown medium-coarse SAND and fine GRAVEL, little medium GRAVEL, wet.	6
					Brown grading to gray-brown fine SAND, some SILT, little fine GRAVEL, black smear at 7.4-7.7', odor, wet.	6.9
	923				Gray broken rock, moist-wet.	8.3
	721	0.6	4	8.5-11		
10						
					Bottom of boring at 11' bgs.	
15						
20						

Notes:
1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Temporary well installed in boring.

Stantec

2250 Brighton Henrietta Town L
Rochester, NY 14623
(585) 475-1440

Test Boring No.: B-2

Project:	15 Richmond Street	Drill Contractor:	GeoLogic	Start Date:	5/18/2010
Project #:	190500605	Driller:	D. Lyons	Completion Date:	5/18/010
Client:	15 Richmond Street LLC	Elevation:		Drilling Method:	Geoprobe
Location:	15 Richmond Street Rochester NY	Weather:	Cloudy, 50's F	Supervisor:	D. Bauch-Barker

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	1.2	2.9	1	0-4'	Gray asphalt and dark brown base, dry.	0
					Brown fine-coarse SAND, some fine-medium GRAVEL, little tan SAND, some red brick at 0.9-1.2', moist.	0.5
					Brown with dark brown mottling fine SAND, little coarse SAND and fine GRAVEL, little SILT, trace black cinder, moist.	1.4
	19.3					
	32.7	2.7	2	4-8'		
5					Gray brown fine SAND, some SILT, trace fine GRAVEL, some black mottling, moist-wet.	4.6
	987				Brown fine SAND, some SILT, trace fine GRAVEL, moist-wet.	5.7
	1096					
	1259	1.6	3	8-8.6'		
	751				Broken gray rock, wet.	9.3
10					Bottom of boring at 8.6' bgs.	
15						
20						

Notes:
1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Temporary well installed in boring.

Stantec

2250 Brighton Henrietta Town L
Rochester, NY 14623
(585) 475-1440

Test Boring No.: B-3

Project:	15 Richmond Street	Drill Contractor:	GeoLogic	Start Date:	5/18/2010
Project #:	190500605	Driller:	D. Lyons	Completion Date:	5/18/010
Client:	15 Richmond Street LLC	Elevation:		Drilling Method:	Geoprobe
Location:	15 Richmond Street Rochester NY	Weather:	Cloudy, 50's F	Supervisor:	D. Bauch-Barker

0	SAMPLE PID	Rec.	No.	Depth	Soil Information Remarks	
	0.3	2.7	1	0-4'	Asphalt and base, dry.	0
					Crushed brick.	0.7
					Gray brown with black mottling grading to gray brown fine SAND, some SILT, trace fine-coarse GRAVEL, trace tan ash, trace black cinder, moist.	1
	0.3					
	3.2	3	2	4-8'	Brown fine SAND and SILT, trace fine-medium GRAVEL, loose, wet.	4
5						
	1155				Same with black mottling, odor.	5.9
	986				Same, tight.	6.6
	712	0.5	3	8-8.6'	Same, possible product visible.	8
					Bottom of boring at 8.6' bgs.	
10						
15						
20						

Notes:
1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Temporary well installed in boring.

Stantec

2250 Brighton Henrietta Town L
Rochester, NY 14623
(585) 475-1440

Test Boring No.: B-4

Project:	15 Richmond Street	Drill Contractor:	GeoLogic	Start Date:	5/18/2010
Project #:	190500605	Driller:	D. Lyons	Completion Date:	5/18/010
Client:	15 Richmond Street LLC	Elevation:		Drilling Method:	Geoprobe
Location:	15 Richmond Street Rochester NY	Weather:	Cloudy, 50's F	Supervisor:	D. Bauch-Barker

0	SAMPLE PID	Rec.	No.	Depth	Soil Information Remarks	
	0.1	2.6	1	0-4'	Asphalt and base, dry.	0
					Dark brown fine SAND, little medium-coarse SAND and fine GRAVEL, trace red brick, moist.	0.8
					Brown fine SAND, little SILT, little coarse SAND and fine GRAVEL, trace tan ash, moist.	1.4
	0.6					
	0.5	1.7	2	4-8'		
5					Dark brown fine GRAVEL and coarse SAND, little fine-medium SAND, dry.	4.4
					Brown fine SAND, little SILT, little coarse SAND and fine GRAVEL, broken black rock at 4.9-5.1', trace gold flecks at 5.3-5.7', wet.	4.7
	0.1					
	0.6	1.8	3	8-12'	Same, with little gold flecks.	8
					Black cindery material, gray broken rock, some fine-medium SAND, dry.	8.5
	62				Brown with gray mottling fine SAND, some SILT, some broken rock and fine-coarse GRAVEL, moist.	8.8
10						
					Bottom of boring at 9.7' bgs.	
15						
20						

Notes:
1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Temporary well installed in boring.

APPENDIX B

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

Stantec

For Lab Project # 10-2024
Issued May 25, 2010
This report contains a total of 26 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"ND" = analyzed for but not detected.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Stantec
Client Job Site: 15 Richmond St
Client Job No.: 19500605
Field Location: B-1
Field ID No.: N/A

Lab Project No.: 10-2024
Lab Sample No.: 6958
Sample Type: Soil
Date Sampled: 05/18/2010
Date Received: 05/18/2010

Laboratory Report for Solid Waste Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	05/25/2010	SW846 6010	2.09
Barium	05/25/2010	SW846 6010	37.2
Cadmium	05/25/2010	SW846 6010	<0.319
Chromium	05/25/2010	SW846 6010	5.27
Lead	05/25/2010	SW846 6010	7.40
Mercury	05/19/2010	SW846 7471	0.0238
Selenium	05/25/2010	SW846 6010	<0.319
Silver	05/25/2010	SW846 6010	<0.637

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt.

File ID:102024.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Stantec

Client Job Site: 15 Richmond St

Client Job No.: 19500605

Field Location: B-2
Field ID No.: N/A

Lab Project No.: 10-2024
Lab Sample No.: 6959

Sample Type: Soil

Date Sampled: 05/18/2010
Date Received: 05/18/2010

Laboratory Report for Solid Waste Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	05/25/2010	SW846 6010	1.93
Barium	05/25/2010	SW846 6010	25.7
Cadmium	05/25/2010	SW846 6010	<0.336
Chromium	05/25/2010	SW846 6010	1.47
Lead	05/25/2010	SW846 6010	6.38
Mercury	05/19/2010	SW846 7471	<0.0083
Selenium	05/25/2010	SW846 6010	<0.336
Silver	05/25/2010	SW846 6010	<0.674

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt.

File ID:102024.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Stantec
Client Job Site: 15 Richmond St
Client Job No.: 19500605
Field Location: B-3
Field ID No.: N/A

Lab Project No.: 10-2024
Lab Sample No.: 6960
Sample Type: Soil
Date Sampled: 05/18/2010
Date Received: 05/18/2010

Laboratory Report for Solid Waste Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	05/25/2010	SW846 6010	1.49
Barium	05/25/2010	SW846 6010	39.9
Cadmium	05/25/2010	SW846 6010	<0.369
Chromium	05/25/2010	SW846 6010	5.80
Lead	05/25/2010	SW846 6010	3.80
Mercury	05/19/2010	SW846 7471	<0.0093
Selenium	05/25/2010	SW846 6010	<0.369
Silver	05/25/2010	SW846 6010	<0.739

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt.

File ID:102024.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Stantec
Client Job Site: 15 Richmond St
Client Job No.: 19500605
Field Location: B-4
Field ID No.: N/A

Lab Project No.: 10-2024
Lab Sample No.: 6961
Sample Type: Soil
Date Sampled: 05/18/2010
Date Received: 05/18/2010

Laboratory Report for Solid Waste Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)	
Arsenic	05/25/2010	SW846 6010	2.62	D,M
Barium	05/25/2010	SW846 6010	46.2	D,M
Cadmium	05/25/2010	SW846 6010	<0.485	M
Chromium	05/25/2010	SW846 6010	5.46	D,M
Lead	05/25/2010	SW846 6010	8.91	D,M
Mercury	05/19/2010	SW846 7471	0.0738	D,M
Selenium	05/25/2010	SW846 6010	<0.485	M
Silver	05/25/2010	SW846 6010	<0.970	M

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt.

File ID:102024.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site:	15 Richmond St.	**Lab Project Number:**	10-2024
		Lab Sample Number:	6958
Client Job Number:	19500605		
Field Location:	B-1	**Date Sampled:**	05/18/2010
Field ID Number:	N/A	**Date Received:**	05/18/2010
Sample Type:	Soil	**Date Analyzed:**	05/21/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 333
Acenaphthylene	ND< 333
Anthracene	ND< 333
Benzo (a) anthracene	ND< 333
Benzo (a) pyrene	ND< 333
Benzo (b) fluoranthene	ND< 333
Benzo (g,h,i) perylene	ND< 333
Benzo (k) fluoranthene	ND< 333
Chrysene	ND< 333
Dibenz (a,h) anthracene	ND< 333
Fluoranthene	ND< 333
Fluorene	ND< 333
Indeno (1,2,3-cd) pyrene	ND< 333
Naphthalene	ND< 333
Phenanthrene	ND< 333
Pyrene	ND< 333

ELAP Number 10958 Method: EPA 8270C Data File: S51237.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-1
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6958

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/21/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown	N/A	5.94	810	N/A
Unknown alkane	N/A	6.09	1,190	N/A
Unknown alkane	N/A	6.17	1,610	N/A
Unknown	N/A	6.27	1,040	N/A
Unknown alkane	N/A	6.54	2,310	N/A
Unknown alkane	N/A	6.68	1,180	N/A
Unknown aromatic	N/A	6.92	1,560	N/A
Unknown alkane	N/A	6.97	1,220	N/A
Unknown alkane	N/A	7.29	5,690	N/A
Unknown alkane	N/A	7.40	3,460	N/A
Unknown alkane	N/A	7.47	1,510	N/A
Unknown aromatic	N/A	7.67	2,520	N/A
Unknown alkane	N/A	8.12	733	N/A
Unknown	N/A	8.40	686	N/A
Unknown aromatic	N/A	8.45	2,290	N/A
Unknown aromatic	N/A	8.68	1,880	N/A
Unknown alkane	N/A	8.72	703	N/A
Unknown aromatic	N/A	8.79	740	N/A
Unknown alkane	N/A	9.24	773	N/A
Cyclic octaatomic sulfur	010544-50-0	15.61	10,300	91

ELAP Number 10958 Method: EPA 8270C Data File: S51237.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-2
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6959

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/21/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 323
Acenaphthylene	ND< 323
Anthracene	ND< 323
Benzo (a) anthracene	ND< 323
Benzo (a) pyrene	ND< 323
Benzo (b) fluoranthene	ND< 323
Benzo (g,h,i) perylene	ND< 323
Benzo (k) fluoranthene	ND< 323
Chrysene	ND< 323
Dibenz (a,h) anthracene	ND< 323
Fluoranthene	ND< 323
Fluorene	ND< 323
Indeno (1,2,3-cd) pyrene	ND< 323
Naphthalene	4,670
Phenanthrene	327
Pyrene	ND< 323

ELAP Number 10958 Method: EPA 8270C Data File: S51238.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-2
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6959

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/21/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown alkane	N/A	6.31	171,000	N/A
Unknown aromatic	N/A	8.07	37,000	N/A
Unknown aromatic	N/A	8.12	4,200	N/A
Unknown aromatic	N/A	8.25	4,850	N/A
Unknown aromatic	N/A	8.27	6,270	N/A
Unknown aromatic	N/A	8.30	1,330	N/A
Unknown	N/A	8.35	29,700	N/A
Unknown aromatic	N/A	8.42	17,800	N/A
Unknown alkane	N/A	8.44	2,560	N/A
Unknown aromatic	N/A	8.51	7,310	N/A
Unknown alkane	N/A	8.54	5,420	N/A
Unknown aromatic	N/A	8.79	3,050	N/A
Unknown aromatic	N/A	8.83	1,950	N/A
Unknown alkane	N/A	9.12	4,380	N/A
Unknown alkane	N/A	9.25	2,980	N/A
Unknown aromatic	N/A	9.39	2,420	N/A
Unknown aromatic	N/A	10.99	2,550	N/A
Unknown aromatic	N/A	11.11	1,360	N/A
Unknown aromatic	N/A	11.28	1,710	N/A
Unknown	N/A	12.50	2,650	N/A

ELAP Number 10958 Method: EPA 8270C Data File: S51238.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-3
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6960

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/21/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 334
Acenaphthylene	ND< 334
Anthracene	ND< 334
Benzo (a) anthracene	ND< 334
Benzo (a) pyrene	ND< 334
Benzo (b) fluoranthene	ND< 334
Benzo (g,h,i) perylene	ND< 334
Benzo (k) fluoranthene	ND< 334
Chrysene	ND< 334
Dibenz (a,h) anthracene	ND< 334
Fluoranthene	ND< 334
Fluorene	ND< 334
Indeno (1,2,3-cd) pyrene	ND< 334
Naphthalene	ND< 334
Phenanthrene	ND< 334
Pyrene	ND< 334

ELAP Number 10958 Method: EPA 8270C Data File: S51239.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-3
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6960

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/21/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown	N/A	5.94	1,090	N/A
Unknown alkane	N/A	6.10	1,520	N/A
Unknown alkane	N/A	6.17	2,260	N/A
Unknown alkane	N/A	6.27	2,520	N/A
Unknown	N/A	6.55	3,180	N/A
Unknown aromatic	N/A	6.93	3,140	N/A
Unknown aromatic	N/A	7.30	6,280	N/A
Unknown aromatic	N/A	7.41	1,880	N/A
Unknown aromatic	N/A	7.47	1,170	N/A
Unknown aromatic	N/A	7.67	1,730	N/A
Unknown	N/A	8.12	2,160	N/A
Unknown	N/A	8.27	1,160	N/A
Unknown aromatic	N/A	8.30	1,150	N/A
Unknown alkane	N/A	8.35	1,790	N/A
Unknown	N/A	8.40	1,290	N/A
Unknown aromatic	N/A	8.44	2,430	N/A
Unknown alkane	N/A	8.50	986	N/A
Unknown aromatic	N/A	8.68	2,260	N/A
Unknown	N/A	11.71	1,620	N/A
Cyclic octaatomic sulfur	010544-50-0	15.58	2,490	96

ELAP Number 10958 Method: EPA 8270C Data File: S51239.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogestegen, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-4
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6961
Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/21/2010

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 316
Acenaphthylene	ND< 316
Anthracene	ND< 316
Benzo (a) anthracene	ND< 316
Benzo (a) pyrene	ND< 316
Benzo (b) fluoranthene	ND< 316
Benzo (g,h,i) perylene	ND< 316
Benzo (k) fluoranthene	ND< 316
Chrysene	ND< 316
Dibenz (a,h) anthracene	ND< 316
Fluoranthene	ND< 316
Fluorene	ND< 316
Indeno (1,2,3-cd) pyrene	ND< 316
Naphthalene	ND< 316
Phenanthrene	ND< 316
Pyrene	ND< 316

ELAP Number 10958 Method: EPA 8270C Data File: S51240.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-4
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6961

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/21/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown	N/A	6.08	139	N/A
Unknown alkane	N/A	6.15	149	N/A
Unknown	N/A	6.25	136	N/A
Unknown alkane	N/A	6.43	196	N/A
Unknown alkane	N/A	6.50	250	N/A
Unknown aromatic	N/A	6.91	168	N/A
Unknown alkane	N/A	7.26	370	N/A
Unknown alkane	N/A	7.45	228	N/A
Unknown	N/A	11.81	149	N/A
Cyclic octaatomic sulfur	010544-50-0	15.58	1,650	94

ELAP Number 10958 Method: EPA 8270C Data File: S51240.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PHC Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site:	15 Richmond St	**Lab Project Number:**	10-2024R
		Lab Sample Number:	6959R
Client Job Number:	190500605		
Field Location:	B-2	**Date Sampled:**	05/18/2010
Field ID Number:	N/A	**Date Received:**	05/26/2010
Sample Type:	Soil	**Date Analyzed:**	05/27/2010
		Date Re-issued:	06/03/2010

PHC Classification	Results in ug / Kg
Light Weight PHC as: Mineral Spirits*	12,000,000

ELAP Number 10958 Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon
*The Mineral Spirits hydrocarbon class includes the type designated Stoddard Solvent.
No further differentiation is possible based on the sample chromatogram.

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-1
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6958

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/25/2010
Date Reissued: 06/01/2010

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 590
Bromomethane	ND< 590
Bromoform	ND< 1,480
Carbon Tetrachloride	ND< 1,480
Chloroethane	ND< 590
Chloromethane	ND< 590
2-Chloroethyl vinyl Ether	ND< 2,950
Chloroform	ND< 590
Dibromochloromethane	ND< 590
1,1-Dichloroethane	ND< 590
1,2-Dichloroethane	ND< 590
1,1-Dichloroethene	ND< 590
cis-1,2-Dichloroethene	ND< 590
trans-1,2-Dichloroethene	ND< 590
1,2-Dichloropropane	ND< 590
cis-1,3-Dichloropropene	ND< 590
trans-1,3-Dichloropropene	ND< 590
Methylene chloride	ND< 1,480
1,1,2,2-Tetrachloroethane	ND< 590
Tetrachloroethene	ND< 590
1,1,1-Trichloroethane	ND< 590
1,1,2-Trichloroethane	ND< 590
Trichloroethene	ND< 590
Trichlorofluoromethane	ND< 590
Vinyl chloride	ND< 590

Aromatics	Results in ug / Kg
Benzene	ND< 590
Chlorobenzene	ND< 590
Ethylbenzene	ND< 590
Toluene	ND< 590
m,p-Xylene	ND< 590
o-Xylene	ND< 590
Styrene	ND< 1,480
1,2-Dichlorobenzene	ND< 1,480
1,3-Dichlorobenzene	ND< 1,480
1,4-Dichlorobenzene	ND< 590

Ketones	Results in ug / Kg
Acetone	ND< 2,950
2-Butanone	ND< 2,950
2-Hexanone	ND< 1,480
4-Methyl-2-pentanone	ND< 1,480

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 590
Vinyl acetate	ND< 1,480
Freon 113	ND< 590

ELAP Number 10958 Method: EPA 8260B Data File: V75526.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-1
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6958

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/25/2010

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	8,730	1,2,4-Trimethylbenzene	32,800
sec-Butylbenzene	4,440	1,3,5-Trimethylbenzene	2,410
tert-Butylbenzene	ND< 1,480		
n-Propylbenzene	5,770	**Miscellaneous**	
Isopropylbenzene	ND< 2,950	Methyl tert-butyl Ether	ND< 590
p-Isopropyltoluene	4,900		
Naphthalene	ND< 1,480		

ELAP Number 10958 Method: EPA 8260B Data File: V75526.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-1
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6958
Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/25/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown alkane	N/A	7.75	10,900	N/A
Unknown alkane	N/A	7.90	9,090	N/A
Unknown alkane	N/A	8.35	13,400	N/A
Unknown alkane	N/A	9.61	19,600	N/A
Unknown alkane	N/A	8.85	50,900	N/A
Unknown alkane	N/A	8.98	40,800	N/A
Unknown alkane	N/A	9.18	52,800	N/A
Unknown	N/A	9.34	10,400	N/A
Unknown alkane	N/A	9.46	29,200	N/A
Unknown alkane	N/A	9.87	9,650	N/A
Unknown alkane	N/A	10.00	17,200	N/A
Unknown alkane	N/A	10.12	21,400	N/A
Unknown alkane	N/A	10.44	24,600	N/A
Unknown aromatic	N/A	10.88	14,600	N/A
Unknown alkane	N/A	11.18	20,000	N/A
Unknown aromatic	N/A	11.29	9,410	N/A
Unknown aromatic	N/A	11.32	9,770	N/A
Unknown alkane	N/A	11.69	10,600	N/A
Unknown aromatic	N/A	11.92	20,200	N/A
Unknown aromatic	N/A	12.36	9,380	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V75526.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.

Client Job Number: 19500605
Field Location: B-2
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6959

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/25/2010
Date Reissued: 06/01/2010

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 3,600
Bromomethane	ND< 3,600
Bromoform	ND< 8,990
Carbon Tetrachloride	ND< 8,990
Chloroethane	ND< 3,600
Chloromethane	ND< 3,600
2-Chloroethyl vinyl Ether	ND< 18,000
Chloroform	ND< 3,600
Dibromochloromethane	ND< 3,600
1,1-Dichloroethane	ND< 3,600
1,2-Dichloroethane	ND< 3,600
1,1-Dichloroethene	ND< 3,600
cis-1,2-Dichloroethene	ND< 3,600
trans-1,2-Dichloroethene	ND< 3,600
1,2-Dichloropropane	ND< 3,600
cis-1,3-Dichloropropene	ND< 3,600
trans-1,3-Dichloropropene	ND< 3,600
Methylene chloride	ND< 8,990
1,1,2,2-Tetrachloroethane	ND< 3,600
Tetrachloroethene	ND< 3,600
1,1,1-Trichloroethane	ND< 3,600
1,1,2-Trichloroethane	ND< 3,600
Trichloroethene	ND< 3,600
Trichlorofluoromethane	ND< 3,600
Vinyl chloride	ND< 3,600

Aromatics	Results in ug / Kg
Benzene	ND< 3,600
Chlorobenzene	ND< 3,600
Ethylbenzene	5,920
Toluene	ND< 3,600
m,p-Xylene	29,200
o-Xylene	10,900
Styrene	ND< 8,990
1,2-Dichlorobenzene	ND< 8,990
1,3-Dichlorobenzene	ND< 8,990
1,4-Dichlorobenzene	ND< 3,600

Ketones	Results in ug / Kg
Acetone	ND< 18,000
2-Butanone	ND< 18,000
2-Hexanone	ND< 8,990
4-Methyl-2-pentanone	ND< 8,990

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 3,600
Vinyl acetate	ND< 8,990
Freon 113	ND< 3,600

ELAP Number 10958 Method: EPA 8260B Data File: V75527.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogestegen, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-2
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6959

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/25/2010

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	75,100	1,2,4-Trimethylbenzene	415,000
sec-Butylbenzene	27,000	1,3,5-Trimethylbenzene	119,000
tert-Butylbenzene	ND< 8,990		
n-Propylbenzene	43,100	**Miscellaneous**	
Isopropylbenzene	ND< 18,000	Methyl tert-butyl Ether	ND< 3,600
p-Isopropyltoluene	40,900		
Naphthalene	9,760		

ELAP Number 10958 Method: EPA 8260B Data File: V75527.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-2
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6959

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/25/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown alkane	N/A	7.9	55,000	N/A
Unknown alkane	N/A	8.36	60,000	N/A
Unknown alkane	N/A	8.47	36,900	N/A
Unknown alkane	N/A	8.61	76,000	N/A
Unknown	N/A	8.85	265,000	N/A
Unknown alkane	N/A	8.98	188,000	N/A
Unknown alkane	N/A	9.18	214,000	N/A
Unknown alkane	N/A	9.40	69,900	N/A
Unknown alkane	N/A	9.46	153,000	N/A
Unknown aromatic	N/A	9.99	113,000	N/A
Unknown alkane	N/A	10.44	129,000	N/A
Unknown aromatic	N/A	10.48	51,200	N/A
Unknown aromatic	N/A	10.65	173,000	N/A
Unknown aromatic	N/A	10.87	47,800	N/A
Unknown aromatic	N/A	10.91	73,300	N/A
Unknown alkane	N/A	11.12	48,900	N/A
Unknown aromatic	N/A	11.18	59,300	N/A
Unknown aromatic	N/A	11.28	38,600	N/A
Unknown aromatic	N/A	11.32	41,200	N/A
Unknown aromatic	N/A	11.41	36,700	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V75527.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.

Client Job Number: 19500605
Field Location: B-3
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6960

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/25/2010
Date Reissued: 06/01/2010

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 769
Bromomethane	ND< 769
Bromoform	ND< 1,920
Carbon Tetrachloride	ND< 1,920
Chloroethane	ND< 769
Chloromethane	ND< 769
2-Chloroethyl vinyl Ether	ND< 3,840
Chloroform	ND< 769
Dibromochloromethane	ND< 769
1,1-Dichloroethane	ND< 769
1,2-Dichloroethane	ND< 769
1,1-Dichloroethene	ND< 769
cis-1,2-Dichloroethene	ND< 769
trans-1,2-Dichloroethene	ND< 769
1,2-Dichloropropane	ND< 769
cis-1,3-Dichloropropene	ND< 769
trans-1,3-Dichloropropene	ND< 769
Methylene chloride	ND< 1,920
1,1,2,2-Tetrachloroethane	ND< 769
Tetrachloroethene	ND< 769
1,1,1-Trichloroethane	ND< 769
1,1,2-Trichloroethane	ND< 769
Trichloroethene	ND< 769
Trichlorofluoromethane	ND< 769
Vinyl chloride	ND< 769

Aromatics	Results in ug / Kg
Benzene	ND< 769
Chlorobenzene	ND< 769
Ethylbenzene	1,450
Toluene	ND< 769
m,p-Xylene	1,470
o-Xylene	ND< 769
Styrene	ND< 1,920
1,2-Dichlorobenzene	ND< 1,920
1,3-Dichlorobenzene	ND< 1,920
1,4-Dichlorobenzene	ND< 769

Ketones	Results in ug / Kg
Acetone	ND< 3,840
2-Butanone	ND< 3,840
2-Hexanone	ND< 1,920
4-Methyl-2-pentanone	ND< 1,920

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 769
Vinyl acetate	ND< 1,920
Freon 113	ND< 769

ELAP Number 10958 Method: EPA 8260B Data File: V75528.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-3
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6960

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/25/2010

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	11,200	1,2,4-Trimethylbenzene	78,600
sec-Butylbenzene	4,660	1,3,5-Trimethylbenzene	11,200
tert-Butylbenzene	ND< 1,920		
n-Propylbenzene	8,410	**Miscellaneous**	
Isopropylbenzene	ND< 3,840	Methyl tert-butyl Ether	ND< 769
p-Isopropyltoluene	7,600		
Naphthalene	ND< 1,920		

ELAP Number 10958 Method: EPA 8260B Data File: V75528.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-3
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6960
Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/25/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown alkane	N/A	7.75	20,600	N/A
Unknown alkane	N/A	7.90	13,600	N/A
Unknown alkane	N/A	8.35	25,000	N/A
Unknown	N/A	8.61	42,800	N/A
Unknown	N/A	8.77	12,300	N/A
Unknown alkane	N/A	8.85	86,800	N/A
Unknown alkane	N/A	8.98	38,800	N/A
Unknown alkane	N/A	9.01	96,500	N/A
Unknown alkane	N/A	9.18	101,000	N/A
Unknown	N/A	9.47	54,500	N/A
Unknown	N/A	9.69	32,100	N/A
Unknown	N/A	9.87	18,800	N/A
Unknown	N/A	10.00	28,600	N/A
Unknown alkane	N/A	10.07	12,300	N/A
Unknown alkane	N/A	10.12	29,500	N/A
Unknown alkane	N/A	10.44	24,100	N/A
Unknown aromatic	N/A	10.65	24,600	N/A
Unknown aromatic	N/A	10.88	17,800	N/A
Unknown aromatic	N/A	11.18	22,500	N/A
Unknown	N/A	11.93	12,500	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V75528.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-4
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6961

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/21/2010
Date Reissued: 06/01/2010

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 6.77
Bromomethane	ND< 6.77
Bromoform	ND< 16.9
Carbon Tetrachloride	ND< 16.9
Chloroethane	ND< 6.77
Chloromethane	ND< 6.77
2-Chloroethyl vinyl Ether	ND< 33.8
Chloroform	ND< 6.77
Dibromochloromethane	ND< 6.77
1,1-Dichloroethane	ND< 6.77
1,2-Dichloroethane	ND< 6.77
1,1-Dichloroethene	ND< 6.77
cis-1,2-Dichloroethene	ND< 6.77
trans-1,2-Dichloroethene	ND< 6.77
1,2-Dichloropropane	ND< 6.77
cis-1,3-Dichloropropene	ND< 6.77
trans-1,3-Dichloropropene	ND< 6.77
Methylene chloride	ND< 16.9
1,1,2,2-Tetrachloroethane	ND< 6.77
Tetrachloroethene	ND< 6.77
1,1,1-Trichloroethane	ND< 6.77
1,1,2-Trichloroethane	ND< 6.77
Trichloroethene	ND< 6.77
Trichlorofluoromethane	ND< 6.77
Vinyl chloride	ND< 6.77

Aromatics	Results in ug / Kg
Benzene	ND< 6.77
Chlorobenzene	ND< 6.77
Ethylbenzene	ND< 6.77
Toluene	ND< 6.77
m,p-Xylene	ND< 6.77
o-Xylene	ND< 6.77
Styrene	ND< 16.9
1,2-Dichlorobenzene	ND< 16.9
1,3-Dichlorobenzene	ND< 16.9
1,4-Dichlorobenzene	ND< 6.77

Ketones	Results in ug / Kg
Acetone	ND< 33.8
2-Butanone	ND< 33.8
2-Hexanone	ND< 16.9
4-Methyl-2-pentanone	ND< 16.9

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 6.77
Vinyl acetate	ND< 16.9
Freon 113	ND< 6.77

ELAP Number 10958 Method: EPA 8260B Data File: V75488.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-4
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6961

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/21/2010

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	ND< 33.8	1,2,4-Trimethylbenzene	ND< 6.77
sec-Butylbenzene	ND< 6.77	1,3,5-Trimethylbenzene	ND< 6.77
tert-Butylbenzene	ND< 16.9		
n-Propylbenzene	ND< 6.77	**Miscellaneous**	
Isopropylbenzene	ND< 33.8	Methyl tert-butyl Ether	ND< 6.77
p-Isopropyltoluene	ND< 33.8		
Naphthalene	ND< 16.9		

ELAP Number 10958 Method: EPA 8260B Data File: V75488.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-4
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 10-2024
Lab Sample Number: 6961

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/21/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Unknown alkane	N/A	7.75	97.8	N/A
Unknown alkane	N/A	8.16	43.7	N/A
Unknown alkane	N/A	8.31	55.2	N/A
Unknown alkane	N/A	8.64	321	N/A
Unknown alkane	N/A	8.85	190	N/A
Unknown	N/A	8.89	102	N/A
Unknown	N/A	9.01	262	N/A
Unknown alkane	N/A	9.08	128	N/A
Unknown	N/A	9.17	236	N/A
Unknown	N/A	9.34	78.5	N/A
Unknown	N/A	9.46	397	N/A
Unknown alkane	N/A	9.61	198	N/A
Unknown alkane	N/A	9.80	116	N/A
Unknown	N/A	9.86	107	N/A
Unknown	N/A	9.97	47.0	N/A
Unknown	N/A	10.00	124	N/A
Unknown aromatic	N/A	10.33	64.0	N/A
Unknown	N/A	11.68	95.1	N/A
Unknown aromatic	N/A	11.81	51.1	N/A
Unknown	N/A	11.92	46.7	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V75488.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-1
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6962

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010
Date Reissued: 06/01/2010

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 200
Bromomethane	ND< 200
Bromoform	ND< 500
Carbon Tetrachloride	ND< 200
Chloroethane	ND< 200
Chloromethane	ND< 200
2-Chloroethyl vinyl Ether	ND< 1,000
Chloroform	ND< 200
Dibromochloromethane	ND< 200
1,1-Dichloroethane	ND< 200
1,2-Dichloroethane	ND< 200
1,1-Dichloroethene	ND< 200
cis-1,2-Dichloroethene	ND< 200
trans-1,2-Dichloroethene	ND< 200
1,2-Dichloropropane	ND< 200
cis-1,3-Dichloropropene	ND< 200
trans-1,3-Dichloropropene	ND< 200
Methylene chloride	ND< 500
1,1,2,2-Tetrachloroethane	ND< 200
Tetrachloroethene	ND< 200
1,1,1-Trichloroethane	ND< 200
1,1,2-Trichloroethane	ND< 200
Trichloroethene	ND< 200
Trichlorofluoromethane	ND< 200
Vinyl chloride	ND< 200

Aromatics	Results in ug / L
Benzene	ND< 70.0
Chlorobenzene	ND< 200
Ethylbenzene	314
Toluene	ND< 200
m,p-Xylene	813
o-Xylene	315
Styrene	ND< 500
1,2-Dichlorobenzene	ND< 200
1,3-Dichlorobenzene	ND< 200
1,4-Dichlorobenzene	ND< 200

Ketones	Results in ug / L
Acetone	ND< 1,000
2-Butanone	ND< 1,000
2-Hexanone	ND< 500
4-Methyl-2-pentanone	ND< 500

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 500
Vinyl acetate	ND< 500
Freon 113	ND< 200

ELAP Number 10958 Method: EPA 8260B Data File: V75511.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-1
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6962

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	5,290	1,2,4-Trimethylbenzene	23,000
sec-Butylbenzene	1,840	1,3,5-Trimethylbenzene	3,960
tert-Butylbenzene	ND< 500		
n-Propylbenzene	2,710	**Miscellaneous**	
Isopropylbenzene	702	Methyl tert-butyl Ether	ND< 200
p-Isopropyltoluene	2,710		
Naphthalene	1,760		

ELAP Number 10958 Method: EPA 8260B Data File: V75511.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-1
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6962
Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
Unknown alkane	N/A	7.77	3,340	N/A
Unknown alkane	N/A	7.90	2,890	N/A
Unknown alkane	N/A	8.35	3,450	N/A
Unknown alkane	N/A	8.61	5,900	N/A
Unknown	N/A	8.77	3,160	N/A
Unknown alkane	N/A	8.85	22,700	N/A
Unknown alkane	N/A	8.98	11,900	N/A
Unknown alkane	N/A	9.01	15,500	N/A
Unknown alkane	N/A	9.18	18,900	N/A
Unknown alkane	N/A	9.39	3,190	N/A
Unknown alkane	N/A	10.00	5,540	N/A
Unknown alkane	N/A	10.07	2,590	N/A
Unknown alkane	N/A	10.12	8,940	N/A
Unknown alkane	N/A	10.44	5,590	N/A
Unknown aromatic	N/A	10.48	2,970	N/A
Unknown aromatic	N/A	10.65	8,490	N/A
Unknown alkane	N/A	10.76	2,540	N/A
Unknown aromatic	N/A	11.19	2,970	N/A
Unknown aromatic	N/A	11.91	2,440	N/A
Unknown aromatic	N/A	12.37	2,520	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V75511.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Stantec

Client Job Site: 15 Richmond St.

Client Job Number: 19500605
Field Location: B-2
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6963

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010
Date Reissued: 06/01/2010

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 200
Bromomethane	ND< 200
Bromoform	ND< 500
Carbon Tetrachloride	ND< 200
Chloroethane	ND< 200
Chloromethane	ND< 200
2-Chloroethyl vinyl Ether	ND< 1,000
Chloroform	ND< 200
Dibromochloromethane	ND< 200
1,1-Dichloroethane	ND< 200
1,2-Dichloroethane	ND< 200
1,1-Dichloroethene	ND< 200
cis-1,2-Dichloroethene	7,330
trans-1,2-Dichloroethene	ND< 200
1,2-Dichloropropane	ND< 200
cis-1,3-Dichloropropene	ND< 200
trans-1,3-Dichloropropene	ND< 200
Methylene chloride	ND< 500
1,1,2,2-Tetrachloroethane	ND< 200
Tetrachloroethene	ND< 200
1,1,1-Trichloroethane	ND< 200
1,1,2-Trichloroethane	ND< 200
Trichloroethene	ND< 200
Trichlorofluoromethane	ND< 200
Vinyl chloride	ND< 200

Aromatics	Results in ug / L
Benzene	ND< 70.0
Chlorobenzene	ND< 200
Ethylbenzene	240
Toluene	ND< 200
m,p-Xylene	1,240
o-Xylene	848
Styrene	ND< 500
1,2-Dichlorobenzene	ND< 200
1,3-Dichlorobenzene	ND< 200
1,4-Dichlorobenzene	ND< 200

Ketones	Results in ug / L
Acetone	ND< 1,000
2-Butanone	ND< 1,000
2-Hexanone	ND< 500
4-Methyl-2-pentanone	ND< 500

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 500
Vinyl acetate	ND< 500
Freon 113	ND< 200

ELAP Number 10958 Method: EPA 8260B Data File: V75512.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 . (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-2
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6963

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	1,530	1,2,4-Trimethylbenzene	12,900
sec-Butylbenzene	618	1,3,5-Trimethylbenzene	2,360
tert-Butylbenzene	ND< 500		
n-Propylbenzene	935	**Miscellaneous**	
Isopropylbenzene	ND< 500	Methyl tert-butyl Ether	ND< 200
p-Isopropyltoluene	920		
Naphthalene	ND< 500		

ELAP Number 10958 Method: EPA 8260B Data File: V75512.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-2
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6963
Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
Unknown alkane	N/A	8.85	4,240	N/A
Unknown alkane	N/A	8.97	1,830	N/A
Unknown alkane	N/A	9.00	4,240	N/A
Unknown alkane	N/A	9.17	3,390	N/A
Unknown	N/A	9.46	2,410	N/A
Unknown aromatic	N/A	9.99	3,330	N/A
Unknown alkane	N/A	10.07	1,030	N/A
Unknown alkane	N/A	10.11	5,400	N/A
Unknown alkane	N/A	10.44	3,340	N/A
Unknown aromatic	N/A	10.48	2,000	N/A
Unknown aromatic	N/A	10.65	7,800	N/A
Unknown alkane	N/A	10.76	1,600	N/A
Unknown aromatic	N/A	10.87	1,530	N/A
Unknown aromatic	N/A	10.90	2,050	N/A
Unknown alkane	N/A	11.12	3,330	N/A
Unknown aromatic	N/A	11.18	1,800	N/A
Unknown aromatic	N/A	11.28	1,180	N/A
Unknown aromatic	N/A	11.40	1,060	N/A
Unknown aromatic	N/A	11.91	1,090	N/A
Unknown aromatic	N/A	12.36	1,090	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V75512.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-3
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6964

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010
Date Reissued: 06/01/2010

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 200
Bromomethane	ND< 200
Bromoform	ND< 500
Carbon Tetrachloride	ND< 200
Chloroethane	ND< 200
Chloromethane	ND< 200
2-Chloroethyl vinyl Ether	ND< 1,000
Chloroform	ND< 200
Dibromochloromethane	ND< 200
1,1-Dichloroethane	ND< 200
1,2-Dichloroethane	ND< 200
1,1-Dichloroethene	ND< 200
cis-1,2-Dichloroethene	458
trans-1,2-Dichloroethene	ND< 200
1,2-Dichloropropane	ND< 200
cis-1,3-Dichloropropene	ND< 200
trans-1,3-Dichloropropene	ND< 200
Methylene chloride	ND< 500
1,1,2,2-Tetrachloroethane	ND< 200
Tetrachloroethene	ND< 200
1,1,1-Trichloroethane	ND< 200
1,1,2-Trichloroethane	ND< 200
Trichloroethene	ND< 200
Trichlorofluoromethane	ND< 200
Vinyl chloride	ND< 200

Aromatics	Results in ug / L
Benzene	ND< 70.0
Chlorobenzene	ND< 200
Ethylbenzene	247
Toluene	ND< 200
m,p-Xylene	895
o-Xylene	289
Styrene	ND< 500
1,2-Dichlorobenzene	ND< 200
1,3-Dichlorobenzene	ND< 200
1,4-Dichlorobenzene	ND< 200

Ketones	Results in ug / L
Acetone	ND< 1,000
2-Butanone	ND< 1,000
2-Hexanone	ND< 500
4-Methyl-2-pentanone	ND< 500

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 500
Vinyl acetate	ND< 500
Freon 113	ND< 200

ELAP Number 10958 Method: EPA 8260B Data File: V75513.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-3
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6964
Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	902	1,2,4-Trimethylbenzene	8,650
sec-Butylbenzene	ND< 500	1,3,5-Trimethylbenzene	1,620
tert-Butylbenzene	ND< 500		
n-Propylbenzene	682	**Miscellaneous**	
Isopropylbenzene	ND< 500	Methyl tert-butyl Ether	ND< 200
p-Isopropyltoluene	521		
Naphthalene	ND< 500		

ELAP Number 10958 Method: EPA 8260B Data File: V75513.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-3
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6964

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
Unknown alkane	N/A	8.61	790	N/A
Unknown alkane	N/A	8.85	2,950	N/A
Unknown alkane	N/A	8.98	2,050	N/A
Unknown alkane	N/A	9.01	2,500	N/A
Unknown alkane	N/A	9.18	2,460	N/A
Unknown aromatic	N/A	9.67	3,180	N/A
Unknown aromatic	N/A	9.99	2,250	N/A
Unknown	N/A	10.07	920	N/A
Unknown alkane	N/A	10.44	2,510	N/A
Unknown aromatic	N/A	10.65	5,490	N/A
Unknown alkane	N/A	10.76	1,150	N/A
Unknown aromatic	N/A	10.87	1,110	N/A
Unknown aromatic	N/A	10.90	1,060	N/A
Unknown alkane	N/A	11.12	1,410	N/A
Unknown aromatic	N/A	11.18	1,310	N/A
Unknown aromatic	N/A	11.28	870	N/A
Unknown aromatic	N/A	11.32	730	N/A
Unknown aromatic	N/A	11.40	690	N/A
Unknown aromatic	N/A	11.91	780	N/A
Unknown aromatic	N/A	12.36	760	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V75513.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Stantec

Client Job Site: 15 Richmond St.

Client Job Number: 19500605
Field Location: B-4
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6965

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010
Date Reissued: 06/01/2010

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00
Bromomethane	ND< 2.00
Bromoform	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chloroethane	ND< 2.00
Chloromethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 10.0
Chloroform	ND< 2.00
Dibromochloromethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Methylene chloride	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L
Benzene	1.08
Chlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00
Toluene	2.19
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Styrene	ND< 5.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00

Ketones	Results in ug / L
Acetone	13.7
2-Butanone	ND< 10.0
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00
Freon 113	ND< 2.00

ELAP Number 10958 Method: EPA 8260B Data File: V75514.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-4
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6965

Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	ND< 5.00	1,2,4-Trimethylbenzene	ND< 5.00
sec-Butylbenzene	ND< 5.00	1,3,5-Trimethylbenzene	ND< 5.00
tert-Butylbenzene	ND< 5.00		
n-Propylbenzene	ND< 2.00	**Miscellaneous**	
Isopropylbenzene	ND< 5.00	Methyl tert-butyl Ether	ND< 2.00
p-Isopropyltoluene	ND< 5.00		
Naphthalene	ND< 5.00		

ELAP Number 10958 Method: EPA 8260B Data File: V75514.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Stantec

Client Job Site: 15 Richmond St.
Client Job Number: 19500605
Field Location: B-4
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-2024
Lab Sample Number: 6965
Date Sampled: 05/18/2010
Date Received: 05/18/2010
Date Analyzed: 05/24/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
Unknown alkane	N/A	7.75	9.10	N/A
Unknown alkane	N/A	8.60	14.0	N/A
Unknown alkane	N/A	8.85	29.4	N/A
Unknown	N/A	8.89	8.50	N/A
Unknown alkane	N/A	8.97	13.4	N/A
Unknown alkane	N/A	8.99	29.9	N/A
Unknown alkane	N/A	9.17	35.4	N/A
Unknown	N/A	9.46	32.8	N/A
Unknown alkane	N/A	9.61	13.5	N/A
Unknown	N/A	9.68	12.2	N/A
Unknown alkane	N/A	9.73	16.2	N/A
Unknown	N/A	9.80	22.4	N/A
Unknown	N/A	9.87	8.60	N/A
Unknown alkane	N/A	10.00	15.4	N/A
Unknown alkane	N/A	10.07	8.20	N/A
Unknown alkane	N/A	10.28	10.4	N/A
Unknown alkane	N/A	10.44	13.4	N/A
Unknown aromatic	N/A	10.87	10.8	N/A
Unknown	N/A	11.12	10.0	N/A
Unknown	N/A	11.19	9.40	N/A

ELAP Number 10958 Method: EPA 8260B Data File: V75514.D

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

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:

COMPANY: Stantec
ADDRESS: 15 Richmond st
CITY: Rochester STATE: NY ZIP: 14623
PHONE: 585-413-5625 FAX: 585-424-5951
ATTN: Tom Wells
COMMENTS: tom.wells@stantec.com, dorothy.baubbarker@stantec.com

INVOICE TO:

COMPANY: Same
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:

LAB PROJECT #: 10-2024
CLIENT PROJECT #: 19800605
TURNAROUND TIME: (WORKING DAYS)
STD OTHER
1 2 3 X 5
Quotation # MS05121OB

PROJECT NAME/SITE NAME: 15 Richmond st

10/0 per requote EAH 5/18
100 per requote EAH 5/18

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINERS NUMBER	TCLP STARS VOCs	STARS SVOCs	RCRA metals	Full TCLP	Ignitability	Reactivity	TCL SVOCs	TCL Pest	PCBs/TPH/Cl	Aluminum	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/18/10	0945		X	B-1	soil	1	X	X	X								PID 923 ppm	6958
2	5/18/10	1110		X	B-2	soil	1	X	X	X								PID 1259 ppm	6959
3	5/18/10	1155		X	B-3	soil	1	X	X	X								PID 1155 ppm	6960
4	5/18/10	1315		X	B-4	soil	1	X	X	X								PID 62.5	6961
5	5/18/10	1400		X	B-1	GW	2	X											6962
6	5/18/10	1415		X	B-2	GW	2	X										Soil-Waste and	6963
7	5/18/10	1430		X	B-3	GW	2	X										Waste-W put on	6964
8	5/18/10	1500		X	B-4	GW	2	X										~~hold 5/19 per Tom~~ Wells. EAH 5/19	6965
9	5/18/10	1530	X		soil-Waste	soil	2				X	X	X						6966
10	5/18/10	1540	X		Waste-W	water	6							X	X	X	X	Waste-W-decant	6967

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

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

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☒	N ☐
Comments: #16963: 1 vial has headspace. Will use 2nd vial for analysis.		
Preservation:	Y ☒	N ☐
Comments:		
Holding Time:	Y ☐	N ☒
Comments: pH rec'd past HT		
Temperature: 9°C iced-pres.	Y ☒	N ☐
Comments: begun in field		

metals sample per T. Wells 5/19.
Decanted at log-in. EAH 5/19

Sampled By	5/18/10	1625
Relinquished By	5/18/10	1625
Received By	5/18/10	1625
Received @ Lab By	5/18/10	1700

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

Stantec

For Lab Project # 10-2052
Issued May 26, 2010
This report contains a total of 6 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"ND" = analyzed for but not detected.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Stantec

Client Job Site: 15 Richmond St

Client Job Number: 190500605
Field Location: B-2-SV
Field ID Number: C-1031
Sample Type: Air

Lab Project Number: 10-2052
Lab Sample Number: 7049

Date Sampled: 05/19/2010
Date Received: 05/19/2010
Date Analyzed: 05/26/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 1.95	ND< 12.9
Bromoform	ND< 1.95	ND< 19.9
Bromomethane	ND< 1.95	ND< 7.50
Carbon Tetrachloride	ND< 0.781	ND< 4.86
Chloroethane	ND< 3.90	ND< 10.2
Chloroform	ND< 1.95	ND< 9.41
Chloromethane	ND< 1.95	ND< 3.99
Dibromochloromethane	ND< 1.95	ND< 16.4
1,2 Dibromoethane	ND< 1.95	ND< 14.8
1,1-Dichloroethane	ND< 1.95	ND< 7.82
1,1-Dichloroethene	20.1	78.9
1,2-Dichloroethane	ND< 1.95	ND< 7.82
cis-1,2-Dichloroethene	E 6,010	E 23,600
trans-1,2-Dichloroethene	139	546
1,2-Dichloropropane	ND< 3.90	ND< 17.9
cis-1,3-Dichloropropene	ND< 1.95	ND< 8.77
trans-1,3-Dichloropropene	ND< 1.95	ND< 8.77
Methylene Chloride	B 29.7	B 102
1,1,2,2-Tetrachloroethane	ND< 1.95	ND< 13.2
Tetrachloroethene	10.6	71.1
1,1,1-Trichloroethane	ND< 1.95	ND< 10.5
1,1,2-Trichloroethane	ND< 1.95	ND< 10.5
Trichloroethene	8.04	42.7
Trichlorofluoromethane	ND< 1.95	ND< 10.8
Freon 113	ND< 1.95	ND< 14.8
Vinyl Chloride	E 2,620	E 6,640

Aromatics	PPBv	ug / m3
Benzene	24.2	77.2
Chlorobenzene	ND< 1.95	ND< 8.93
Ethylbenzene	E 147	E 637
Toluene	E 252	E 948
m,p-Xylene	E 367	E 1,590
o-Xylene	E 176	E 763
Styrene	ND< 1.95	ND< 8.29
1,2-Dichlorobenzene	ND< 1.95	ND< 11.6
1,3-Dichlorobenzene	ND< 1.95	ND< 11.6
1,4-Dichlorobenzene	ND< 1.95	ND< 11.6

Ketones	PPBv	ug / m3
Acetone	E B 92.0	E B 218
2-Butanone	35.7	105
2-Hexanone	ND< 9.76	ND< 39.9
4-Methyl-2-Pentanone	ND< 9.76	ND< 39.9

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	73.2	228
Methyl-tert-Butyl Ether	ND< 1.95	ND< 7.02
Vinyl Acetate	ND< 1.95	ND< 6.86

ELAP Number 10958 Method: EPA TO-15 Data File: A4613A.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Stantec

Client Job Site: 15 Richmond St
Client Job Number: 190500605
Field Location: B-3-SV
Field ID Number: C-1025
Sample Type: Air

Lab Project Number: 10-2052
Lab Sample Number: 7050

Date Sampled: 05/19/2010
Date Received: 05/19/2010
Date Analyzed: 05/26/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 2.05	ND< 13.6
Bromoform	ND< 2.05	ND< 21.0
Bromomethane	ND< 2.05	ND< 7.88
Carbon Tetrachloride	ND< 0.820	ND< 5.10
Chloroethane	ND< 4.10	ND< 10.7
Chloroform	ND< 2.05	ND< 9.89
Chloromethane	ND< 2.05	ND< 4.19
Dibromochloromethane	ND< 2.05	ND< 17.3
1,2 Dibromoethane	ND< 2.05	ND< 15.6
1,1-Dichloroethane	ND< 2.05	ND< 8.22
1,1-Dichloroethene	ND< 2.05	ND< 8.05
1,2-Dichloroethane	ND< 2.05	ND< 8.22
cis-1,2-Dichloroethene	46.7	183
trans-1,2-Dichloroethene	ND< 2.05	ND< 8.05
1,2-Dichloropropane	ND< 4.10	ND< 18.8
cis-1,3-Dichloropropene	ND< 2.05	ND< 9.22
trans-1,3-Dichloropropene	ND< 2.05	ND< 9.22
Methylene Chloride	B 18.9	B 64.9
1,1,2,2-Tetrachloroethane	ND< 2.05	ND< 13.9
Tetrachloroethene	2.69	18.0
1,1,1-Trichloroethane	ND< 2.05	ND< 11.1
1,1,2-Trichloroethane	ND< 2.05	ND< 11.1
Trichloroethene	ND< 0.964	ND< 5.13
Trichlorofluoromethane	ND< 2.05	ND< 11.4
Freon 113	ND< 2.05	ND< 15.6
Vinyl Chloride	17.0	43.1

Aromatics	PPBv	ug / m3
Benzene	13.0	41.5
Chlorobenzene	ND< 2.05	ND< 9.39
Ethylbenzene	67.0	290
Toluene	66.4	250
m,p-Xylene	156	676
o-Xylene	40.8	177
Styrene	ND< 2.05	ND< 8.72
1,2-Dichlorobenzene	ND< 2.05	ND< 12.2
1,3-Dichlorobenzene	ND< 2.05	ND< 12.2
1,4-Dichlorobenzene	ND< 2.05	ND< 12.2

Ketones	PPBv	ug / m3
Acetone	B 36.1	B 85.6
2-Butanone	11.8	34.7
2-Hexanone	ND< 10.3	ND< 42.1
4-Methyl-2-Pentanone	ND< 10.3	ND< 42.1

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 10.3	ND< 32.0
Methyl-tert-Butyl Ether	ND< 2.05	ND< 7.38
Vinyl Acetate	ND< 2.05	ND< 7.21

ELAP Number 10958 Method: EPA TO-15 Data File: A4614A.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature:
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Stantec

Client Job Site: 15 Richmond St

Client Job Number: 190500605
Field Location: N/A
Field ID Number: N/A
Sample Type: Air

Lab Project Number: 10-2052
Lab Sample Number: Method Blank

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 05/25/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.102	ND< 0.676
Bromoform	ND< 0.102	ND< 1.04
Bromomethane	ND< 0.102	ND< 0.392
Carbon Tetrachloride	ND< 0.0409	ND< 0.254
Chloroethane	ND< 0.204	ND< 0.534
Chloroform	ND< 0.102	ND< 0.492
Chloromethane	ND< 0.102	ND< 0.209
Dibromochloromethane	ND< 0.102	ND< 0.859
1,2 Dibromoethane	ND< 0.102	ND< 0.776
1,1-Dichloroethane	ND< 0.102	ND< 0.409
1,1-Dichloroethene	ND< 0.102	ND< 0.400
1,2-Dichloroethane	ND< 0.102	ND< 0.409
cis-1,2-Dichloroethene	ND< 0.102	ND< 0.400
trans-1,2-Dichloroethene	ND< 0.102	ND< 0.400
1,2-Dichloropropane	ND< 0.204	ND< 0.934
cis-1,3-Dichloropropene	ND< 0.102	ND< 0.459
trans-1,3-Dichloropropene	ND< 0.102	ND< 0.459
Methylene Chloride	E 5.10	E 17.5
1,1,2,2-Tetrachloroethane	ND< 0.102	ND< 0.693
Tetrachloroethene	ND< 0.102	ND< 0.684
1,1,1-Trichloroethane	ND< 0.102	ND< 0.551
1,1,2-Trichloroethane	ND< 0.102	ND< 0.551
Trichloroethene	ND< 0.0481	ND< 0.256
Trichlorofluoromethane	ND< 0.102	ND< 0.567
Freon 113	ND< 0.102	ND< 0.776
Vinyl Chloride	ND< 0.102	ND< 0.259

Aromatics	PPBv	ug / m3
Benzene	ND< 0.102	ND< 0.325
Chlorobenzene	ND< 0.102	ND< 0.467
Ethylbenzene	ND< 0.102	ND< 0.442
Toluene	ND< 0.102	ND< 0.384
m,p-Xylene	ND< 0.102	ND< 0.442
o-Xylene	ND< 0.102	ND< 0.442
Styrene	ND< 0.102	ND< 0.434
1,2-Dichlorobenzene	ND< 0.102	ND< 0.609
1,3-Dichlorobenzene	ND< 0.102	ND< 0.609
1,4-Dichlorobenzene	ND< 0.102	ND< 0.609

Ketones	PPBv	ug / m3
Acetone	E 9.71	E 23.0
2-Butanone	ND< 0.511	ND< 1.50
2-Hexanone	ND< 0.511	ND< 2.09
4-Methyl-2-Pentanone	ND< 0.511	ND< 2.09

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 0.511	ND< 1.59
Methyl-tert-Butyl Ether	ND< 0.102	ND< 0.367
Vinyl Acetate	ND< 0.102	ND< 0.359

ELAP Number 10958 Method: EPA TO-15 Data File: A4612.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

TO-15 CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Stantec	COMPANY:	SAME
ADDRESS:	2350 Brighton Henrietta TL Rd	ADDRESS:	
CITY:	Rochester	STATE: NY	ZIP: 14623
PHONE:	585-413-5625	FAX: 585-424-5951	
ATTN:	Tom Wells	ATTN:	
COMMENTS:	tom.wells@stantec.com, dorothy.baudbarker@stantec.com		

LAB PROJECT #: 10-2052
CLIENT PROJECT #: 190500605
TURNAROUND TIME: (WORKING DAYS) STD [ ] 3 [X] 5 [ ] 7 OTHER [ ]
Quotation # MS051210B
PROJECT NAME/SITE NAME: 15 Richmond St

Sampling Procedure

DATE	SAMPLE LOCATION/FIELD ID	MATRIX	CANISTER	REGULATOR	START VACUUM	START TIME	END TIME	END DATE	END VACUUM	ANALYSIS: TCL VOCs by TO-15	ANALYSIS: Halo	ANALYSIS: Site Specific	RETURN VACUUM	PARADIGM LAB SAMPLE NUMBER
5/19/10	B-2-SV	AIR	C 1031	R 526	28.5	0925	1120	5/19/10	3.0	X			5	7049
5/19/10	B-3-SV	AIR	C 1025	R 522	29.5	0925	1230	5/19/10	14.0	X			16	7050
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										

Remarks:

B-2-SV PID 49.1 ppm
B-3-SV PID 129 ppm

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

Sampled By — Date/Time: 5/19/10 1300
Relinquished By — Date/Time: 5/19/10 1300
Received By — Date/Time: 5/19 1300
Received @ Lab By: Elizabeth A Honca — Date/Time: 5/19/10 1605

Total Cost:

P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

TO-15 EQUIPMENT CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	STANTEC	COMPANY:	SAME
ADDRESS:	2350 Brighton Henrietta TL Rd	ADDRESS:	
CITY:	Rochester STATE: NY ZIP: 14623	CITY:	STATE: ZIP:
PHONE:	585-413-5625 FAX: 585-424-5951	PHONE:	FAX:
ATTN:	Tom Wells	ATTN:	
COMMENTS:	tom.wells@stantec.com, dorothy.bauchbarker@stantec.com		

LAB PROJECT #:	CLIENT PROJECT #:
10-2052	19500605

TURNAROUND TIME: (WORKING DAYS) — STD — OTHER

☐ 3 ☒ 5 ☐ 7 ☐

Quotation #

PROJECT NAME/SITE NAME: 15 Richmond St

Equipment Tracking

	CANISTER	SHIPPED VACUUM	CANISTER	SHIPPED VACUUM	CANISTER	SHIPPED VACUUM
C	1c31	30	C		C	
C	1025	30	C		C	
C			C		C	
C			C		C	
C			C		C	
C			C		C	
C			C		C	
C			C		C	
C			C		C	
C			C		C	

Equipment Tracking

	REGULATOR	FLOW	REGULATOR	FLOW	REGULATOR	FLOW
R	522	1.4	R		R	
R	522	1.5	R		R	
R			R		R	
R			R		R	
R			R		R	
R			R		R	
R			R		R	
R			R		R	
R			R		R	
R			R		R	

1 garage

Remarks:

All equipment returned in good condition.
EAH 5/19

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

Picked up By	Date/Time	Total Cost:
[signature]	5/19/10 1300	
Returned By	Date/Time	
[signature]	5/19/10 1300	
Received By	Date/Time	P.I.F.
Elizabeth A. Honch	5/19/10 1605	
Received @ Lab By	Date/Time	