

**Phase II Environmental Site  
Assessment  
937 Genesee Street  
City of Rochester, New York 14611**



July 8, 2011

## PHASE II ENVIRONMENTAL SITE ASSESSMENT

937 Genesee Street  
City of Rochester, New York

### Executive Summary

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Stantec Consulting Services Inc. (Stantec) conducted a Phase II Environmental Site Assessment (ESA) at 937 Genesee Street (the Site) between May 23, 2011 and June 3, 2011. The Site is located in the City of Rochester, Monroe County, New York northwest of the intersection of Genesee Street, Brooks Avenue, and Plymouth Avenue. 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 0.248 ± acre vacant parcel extending from the west side of Genesee Street.

In November 2002, Stantec performed a Phase I ESA of twenty-three contiguous parcels in the Brooks Landing Urban Renewal District, including the site. The Phase I ESA indicated that 937-941 Genesee Street was occupied by an auto repair facility from 1912 to 1941 and by dry cleaners from 1946 until its 2009 demolition. Stantec completed two Phase II Investigation programs at the adjoining property to the north, 923-927 Genesee Street, which indicated low level impacts to a fill layer and did not encounter impacts to the groundwater or deeper soils at the property boundary.

During City discussions with City staff who were involved in the demolition of the former building, it is understood that they observed a partially buried 55-gallon drum that was filled with stone, had no bottom and was buried in the floor at the rear of the building. This may have been a dry well structure and was specifically investigated as part of the Phase II program.

This report describes the Phase II ESA investigation activities, methods and results. The Phase II ESA was performed for the City of Rochester. The purpose of the Phase II ESA was to investigate potential contamination from historical dry cleaners and auto repair shop identified in Stantec's November 2002 Phase I ESA.

Eight soil test borings and three monitoring wells were installed for the purposes of collecting soil and groundwater samples on the site. The sampling locations included locations near the identified historical features on the property that represented recognized environmental conditions.

The results of the Phase II ESA indicate the presence of Volatile Organic Compound (VOC) impacts in soil and groundwater. VOC concentrations in soil were below New York State Department of Environmental Conservation (NYSDEC) soil cleanup objectives (SCOs) for commercial and restricted residential use. The Total Petroleum Hydrocarbons (TPH) analysis indicated that the B-2 sample contained a medium weight petroleum hydrocarbon matching the lab's diesel fuel standard. B-3 contained medium weight kerosene and heavy weight lube oil, B-4 contained light weight mineral spirits and heavy weight lube oil, B-6 contained light weight mineral spirits, and SED-1 contained medium weight kerosene and heavy weight lube oil. 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

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not possible, we conclude from the TPH and the VOC analytical results that one of the sources of the aromatic VOCs detected in the site samples is likely to have been a release of Stoddard solvent from the former dry cleaning facility. Releases from the former auto repair shop are also likely to have affected the site.

Exceedances of groundwater standards for VOCs were detected in MW-3 and MW-6, and a slight exceedance for selenium was detected in MW-7. The greatest concentrations were reported in the area near the manhole. The TPH analysis indicated that the MW-3 sample contained medium weight kerosene and medium weight diesel. The MW-6 sample contained medium weight kerosene.

Given the significantly lower impacts in the B-7/MW-7 location, which was east of the remaining locations, it appears that the contamination is focused on the rear (west) portion of the building near the manhole and dry well. The source of the impacts appears to have been the past use of the site as a dry cleaner and auto repair facility.

It is recommended that further investigation, including soil and groundwater sampling and analysis, be carried out to attempt to determine the on-site extent of impacted soil and groundwater. It is further recommended that the results of the investigations be presented to the NYSDEC. After completing additional investigation at the site, some level of remediation will likely be required dependant in part on the future reuse and redevelopment of the site.

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## **PHASE II ENVIRONMENTAL SITE ASSESSMENT**

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### **1.0 Introduction**

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Between May 23, 2011 and June 3, 2011, Stantec Consulting Services Inc. (Stantec) conducted a Phase II Environmental Site Assessment (ESA) at 937 Genesee 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 at the request of the City of Rochester (City) in accordance with Stantec's May 12, 2011 proposal. The purpose of the Phase II ESA was to investigate potential contamination from historical dry cleaners and auto repair shop identified in Stantec's November 2002 Phase I ESA. The Phase II ESA was performed to investigate soil and groundwater conditions on the property.

### **1.1 BACKGROUND INFORMATION**

In November 2002, Stantec performed a Phase I ESA of twenty-three contiguous parcels in the Brooks Landing Urban Renewal District in conformance with ASTM E 1527-00 Standard Practice for Environmental Site Assessments (ESAs): Phase I Environmental Site Assessment Process. The site was among the twenty-three parcels included in the Phase I ESA. It is understood that the site is comprised of 0.248 ± acres of land (SBL No. 135.340-0002-036.000/0000). It is our understanding that the site is owned by Mithani Brother Enterprises, and the City of Rochester has obtained a "temporary incidents of ownership" from State of New York Supreme Court in order to conduct an "environmental restoration investigation" of the site. The property contains a vacant lot with a slab remaining from a former dry cleaner onsite.

The following recognized environmental condition (REC) associated with the site was identified by Stantec in the Phase I ESA Report dated November 2002:

- According to the Polk City Directories and historical maps, 937-941 Genesee Street was occupied by an auto repair facility from 1912 to 1941. In 1946, Riverside Dry Cleaners occupied this property. Riverside Dry Cleaners remained at this property until 1972 when United Dry Cleaners occupied the premises. At the time the November 2002 Phase I ESA was prepared, United Cleaners Laundromat occupied the building.

Stantec completed a Phase II Investigation program that included the adjoining property to the north, 923-927 Genesee Street, in January 2003. Three borings (designated B-144 to B-146) and one monitoring well (PZ-145) were installed on the 923-927 Genesee Street property. Each of these borings penetrated a variably thick ash-rich fill material. One sample of the fill material was submitted for laboratory analysis that yielded an elevated level of arsenic, and a relatively low concentration of heavy weight petroleum (lube oil) was also detected.

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In addition to the fill/soil samples, groundwater samples were collected from monitoring well PZ-145. This well was installed in boring B-145 that was situated along the southern boundary of the 927 Genesee Street property. The groundwater samples did not yield detectable concentrations of any Volatile Organic Compounds (VOCs) or Total Petroleum Hydrocarbons (TPH).

In addition, a December 2003 subsurface investigation included eleven soil borings spread across 923 and 927 Genesee Street. Soil and groundwater sampling for volatile organic compounds was conducted. The analysis of one shallow subsurface fill sample, two native soil samples and one groundwater sample for VOCs did not yield evidence of impacts from historical auto repair and dry cleaning operations. Nonetheless, the thin veneer of ash and cinder-rich fill material observed in one boring was analyzed for semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH) and RCRA metals. The analyses yielded results indicating the presence of lube oil, diesel fuel and elevated arsenic concentrations in the fill. TPH analyses on the deeper native soils and groundwater did not yield detectable concentrations.

During City discussions with City staff who were involved in the demolition of the former building, it is understood that they observed a partially buried 55-gallon drum that was filled with stone, had no bottom and was buried in the floor at the rear of the building. This may have been a dry well structure and was specifically investigated as part of the Phase II program.

According to Dr. Richard Young's Groundwater Contour Maps of Monroe County (1980), and based on topographic gradient, regional groundwater flow in the vicinity of the site is expected to flow easterly, towards the Genesee River located 515± feet east of the site.

## **2.0 Phase II Investigation**

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### **2.1 INVESTIGATION ACTIVITIES**

The investigation program involved soil test borings, soil sampling, monitoring well installation, well development, and groundwater sampling.

Subcontracted drilling services were provided by Nothnagle Drilling, Inc. of Scottsville, New York (Nothnagle) 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, Nothnagle 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 23-25, 2011. A sediment sample was taken from the approximate three foot diameter manhole located near boring B-3. The manhole had a solid bottom and did not appear to have an outlet. Eight test borings were installed, and monitoring wells were installed in three of these borings. Test boring locations are shown on

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Figure 2. Borings were installed at locations near and within the area marked "Cleaning" on the historical Sanborn maps. The borings were drilled to depths ranging from 9.3 to 14.6 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, except for a short interval at B-6 where an obstruction was encountered at two ft bgs, requiring augering to four ft bgs. 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 map with maximum PID readings at each boring is presented on Figure 3. 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 four of the test borings for laboratory analysis. The samples were selected on the basis of the presence of elevated PID readings and visual evidence of contamination. The sample intervals selected were those that exhibited the strongest indications of potential contamination. The four soil samples selected, along with the manhole sediment sample, are described on Table 1. 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) by EPA Method 8260. One sample, from boring B-3, was also submitted for STARS semi-volatile organic compounds (SVOCs) by EPA Method 8270, and Resource Conservation and Recovery Act (RCRA) metals by EPA Methods 6010 and 7471. Following receipt of analytical data, the samples were also analyzed for Total Petroleum Hydrocarbons (TPH) by New York State Department of Health (NYSDOH) Method 310.13.

The monitoring wells were constructed with 2-inch PVC. Screen lengths were 5 feet and straddled the apparent water table. Sand packs extend over the screen and are overlain by bentonite seals. The wells were completed with flush mounted protective coverings. Table 2 details the monitoring well construction.

After allowing the completed wells to set several days, the monitoring wells were developed on June 1, 2011 in an effort to cleanse them of suspended sediments and reduce turbidities to the maximum extent practicable. Development of each well was performed using disposable bailers to surge and bail the well. The volumes purged from the three wells ranged from 2.8 to 5.5 gallons. Development records are presented in Appendix B.

Groundwater sampling was performed on June 3, 2011. A water level summary is presented in Table 3. The sampling was performed by Stantec personnel using low-flow methods and equipment (see Table 4). Monitoring of groundwater field parameters was performed during the

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purging of each well. 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/STARS VOCs by EPA Method 8260, STARS SVOCs by EPA Method 8270, RCRA metals by EPA Method 6010 and 7470, and TPH by NYSDOH Method 310.13.

Soil cuttings were placed in two 55-gallon drums. 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 and purge water were placed in one 55-gallon drum. The two soil cuttings drums and one purge water and decontamination water drum were placed neatly on-site to await disposal.

## **2.2 INVESTIGATION RESULTS**

Groundwater levels taken prior to sampling indicate that the groundwater table is relatively flat, with a high point at MW-3. Based on the three wells installed, groundwater appears to be flowing to the east or east-northeast. Copies of the laboratory analytical reports are provided in Appendix C. Summaries of the analytical results for soil are presented in Table 5, and groundwater in Table 6. Table 5 also presents a comparison of the concentrations detected in site soil/sediment samples to soil cleanup objectives (SCOs) established for assessing health risks at restricted residential and commercial use sites regulated by the NYSDEC. Table 6 presents a comparison of the concentrations of analytes detected in site groundwater samples to groundwater quality standards established by NYSDEC.

### **2.2.1 Results for Soil Samples**

The B-2, B-3, B-4, and B-6 locations exhibited elevated PID field screening readings. Peak PID readings reached 470 parts per million (ppm) in B-2 (4.5 ft bgs), 1,658 ppm in B-3 (7 ft bgs), 971 ppm in B-4 (7.5 ft bgs), and 1,547 ppm in B-6 (6 ft bgs). Petroleum odors were noted beginning at around 4-6 ft bgs in B-2, B-3, B-4, and B-6. Top of rock was found at approximately 9-14.5 ft bgs, and groundwater occurred at approximately 8.5 ft bgs.

VOCs were detected below NYSDEC SCOs for commercial and restricted residential use at sites subject to 6 NYCRR Part 375 regulations under NYSDEC's Division of Environmental Remediation programs at B-2, B-3, B-4, B-6, and SED-1. Naphthalene was detected in the B-3 sample at a concentration below the commercial and restricted residential use SCOs. Arsenic, barium, chromium, and lead were detected below commercial and restricted residential use SCOs at B-3. Total VOCs in soil are presented on Figure 4.

The TPH analysis indicated that the B-2 sample contained 1,580,000 parts per billion (ppb) or 1,580 ppm of a medium weight petroleum hydrocarbon matching the lab's diesel fuel standard. B-3 contained 616,000 ppb (616 ppm) of medium weight kerosene and 1,180,000 ppb (1,180 ppm) of heavy weight lube oil, B-4 contained 228,000 ppb (228 ppm) of light weight mineral spirits and 14,200 ppb (14.2 ppm) of heavy weight lube oil, B-6 contained 38,400 ppb (38.4 ppm) of light weight mineral spirits, and SED-1 contained 64,200 ppb (64.2 ppm) of medium weight kerosene and 1,240,000 ppb (1,240 ppm) of heavy weight lube oil. The lab's mineral



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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 TPH and the VOC analytical results that one of the sources of the aromatic VOCs detected in the site samples is likely to have been a release of Stoddard solvent from the former dry cleaning facility. Releases from the former auto repair shop are also likely to have affected the site.

### **2.2.2 Analytical Results for Water Samples**

As shown on Table 6, 12 compounds were detected at concentrations above Technical and Operational Guidance Series (TOGS 1.1.1) Groundwater Standards in samples from MW-3, MW-6, and MW-7. The highest concentrations were generally reported in MW-3 which is adjacent to the manhole. The MW-3 and MW-6 samples appear to have been impacted by a petroleum based contaminant. The MW-7 sample only slightly exceeded the selenium standard and no other compounds were detected. The TPH analysis indicated that the MW-3 sample contained 696 ppb of medium weight kerosene and 346 ppb of medium weight diesel. The MW-6 sample contained 598 ppb of medium weight kerosene.

## **3.0 CONCLUSIONS AND RECOMMENDATIONS**

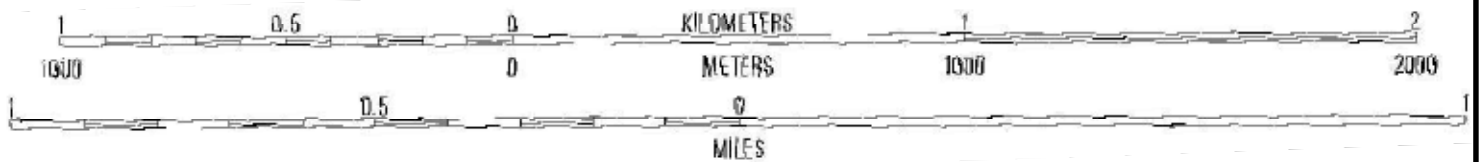
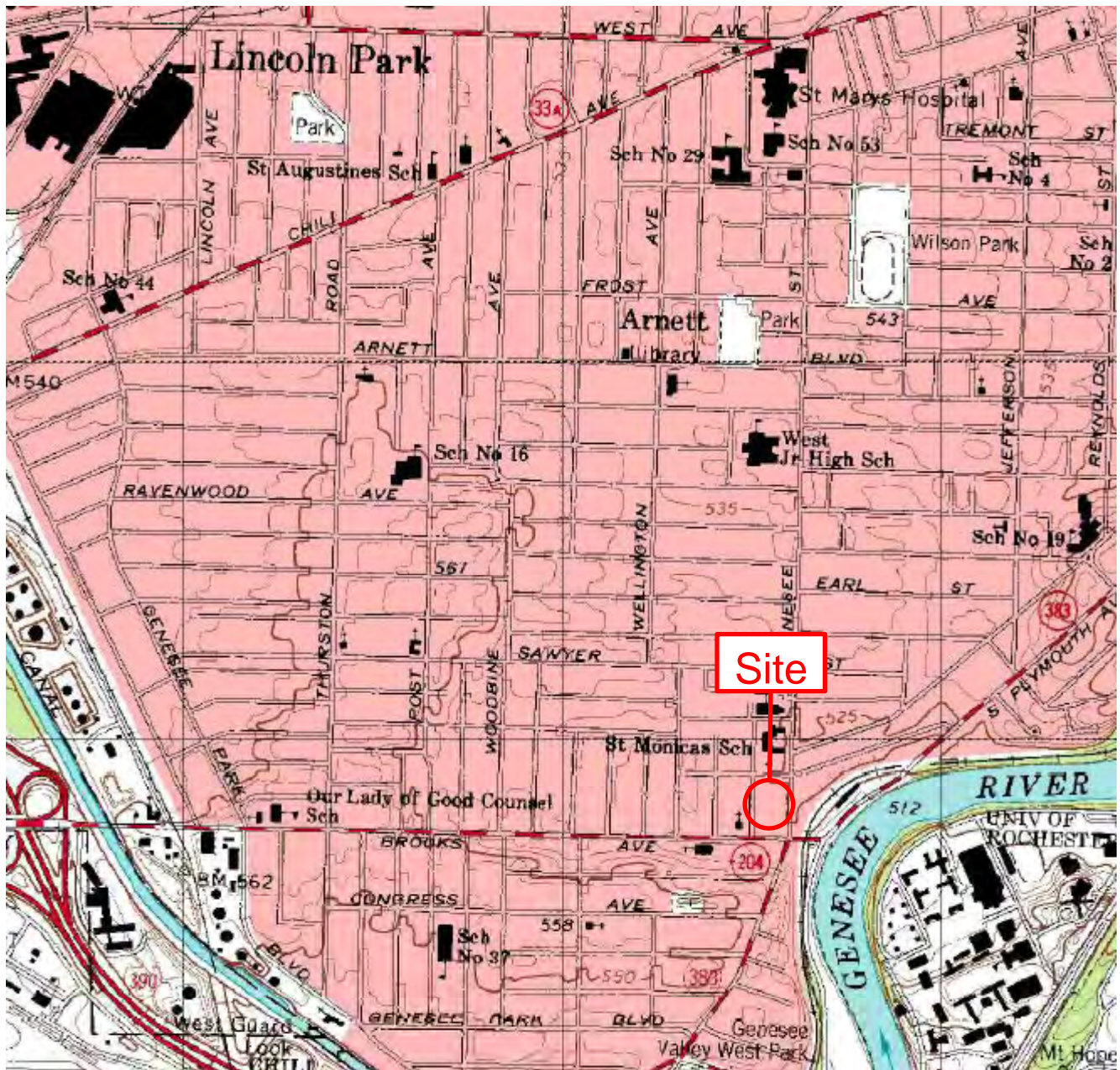
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The results of the Phase II ESA indicate the presence of VOC impacts in soil and groundwater. VOC concentrations in soil were below NYSDEC SCOs for commercial and restricted residential use. Exceedances of groundwater standards for VOCs were detected in MW-3 and MW-6, and a slight exceedance for selenium was detected in MW-7. The greatest concentrations were reported in the area near the manhole.

Given the significantly lower impacts in the B-7/MW-7 location, which was east of the remaining locations, it appears that the contamination is focused on the rear portion of the building near the manhole and dry well. The source of the impacts appears to have been the past use of the site as a dry cleaner and auto repair facility.

It is recommended that further investigation, including soil and groundwater sampling and analysis, be carried out to attempt to determine the on-site extent of impacted soil and groundwater. It is further recommended that the results of the investigations be presented to the NYSDEC. After completing additional investigation at the site, some level of remediation will likely be required dependant in part on the future reuse and redevelopment of the site.

# FIGURES



**Stantec**

**Figure 1**

**Site Location Map**

937 Genesee Street  
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Source: USGS Topographic Map (Rochester West)











# TABLES

**TABLE 1**  
**SOIL SAMPLE SUMMARY**

Phase II ESA  
937 Genesee Street  
Rochester, New York

Sample ID	Sample Location	Sample Depth (ft bgs)	Sample Date	Parameters			
				TCL/STARS VOCs by EPA Method 8260B	STARS SVOCs by EPA Method 8270D	RCRA Metals	TPH
SED-1	Manhole	2-3	5/23/2011	X			X
B2(4-4.8)	B-2	4-4.8	5/23/2011	X			X
B3(6-8)	B-3	6-8	5/24/2011	X	X	X	X
B4(7.5-8)	B-4	7.5-8	5/23/2011	X			X
B6(7-8)	B-6	7-8	5/23/2011	X			X

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

TPH = Total Petroleum Hydrocarbons

ft bgs = Feet below ground surface



**TABLE 2**  
**WELL COMPLETION SUMMARY**

Phase II ESA  
 937 Genesee Street  
 Rochester, New York

<b>Well</b>	<b>Well Diameter (in)</b>	<b>Bentonite Seal (ft bgs)</b>	<b>Sandpack Interval (ft bgs)</b>	<b>Screened Interval (ft bgs)</b>	<b>Total Depth (ft bgs)</b>
MW-3	2.0	2 - 4.5	4.5 - 11.6	6.6 - 11.6	11.6
MW-6	2.0	2.3 - 5.2	5.2 - 12.3	7.3 - 12.3	12.3
MW-7	2.0	1 - 6.3	6.3 - 13.6	8.6 - 13.6	13.6

Key:

ft bgs = Feet below ground surface  
 in = Inches

**TABLE 3**  
**WATER LEVEL SUMMARY**

Phase II ESA  
 937 Genesee Street  
 Rochester, New York

Well	TOIC Reference Elevation (ft*)	Ground Reference Elevation (ft*)	6/3/2011	
			Water Level (ft btoic)	Water Elevation (ft)
MW-3	99.35	99.82	8.49	90.86
MW-6	99.33	99.69	8.52	90.81
MW-7	100.63	101.04	9.84	90.79

Key:

TOIC = top of inner casing.

btoic = Below top of inner casing.

ft = Feet.

\* = Arbitrary site-specific datum.

**TABLE 4**  
**GROUNDWATER SAMPLE SUMMARY**

Phase II ESA  
 937 Genesee Street  
 Rochester, New York

Sample ID	Sample Location	Date	Method	Parameters			
				TCL/STARS VOCs by EPA Method 8260B	STARS SVOCs by EPA Method 8270D	RCRA Metals	TPH
MW-3-GW	MW-3	06/03/11	Peristaltic pump	X	X	X	X
MW-6-GW	MW-6	06/03/11	Peristaltic pump	X	X	X	X
MW-7-GW	MW-7	06/03/11	Peristaltic pump	X	X	X	

Key:

EPA = United States Environmental Protection Agency

STARS = Spill Technology and Remediation Series

VOCs = Volatile Organic Compounds

TCL = Target Compound List

RCRA = Resource Conservation and Recovery Act

TPH = Total Petroleum Hydrocarbons

Table 5  
Summary of Analytical Results in Soil  
May 2011 Sampling  
937 Genesee Street, Rochester, NY  
City of Rochester

Sample Location			B2		B3		B4		B6		SED1	
Sample Date			23-May-11	23-May-11	24-May-11	24-May-11	23-May-11	23-May-11	23-May-11	23-May-11	23-May-11	23-May-11
Sample ID			B2 (4-4.8)	B2 (4-4.8)	B3 (6-8)	B3 (6-8)	B4 (7.5-8)	B4 (7.5-8)	B6 (7-8)	B6 (7-8)	SED1	SED1
Sample Depth			4 - 4.8 ft	4 - 4.8 ft	6 - 8 ft	6 - 8 ft	7.5 - 8 ft	7.5 - 8 ft	7 - 8 ft	7 - 8 ft		
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			P11-2070	P11-2070R	P11-2085	P11-2085R	P11-2070	P11-2070R	P11-2070	P11-2070R	P11-2070	P11-2070R
Laboratory Sample ID			7014	7014R	7057	7057R	7017	7017R	7016	7016R	7013	7013R
Sample Type	Units	6NYCRR										
Petroleum Hydrocarbons												
Light Weigth PHC as: Mineral Spirits	µg/kg	n/v	-	-	-	-	-	228000	-	38400	-	-
Medium Weight PHC as: Kerosene	µg/kg	n/v	-	-	-	616000	-	-	-	-	-	64200
Medium Weight PHC as: Diesel Fuel	µg/kg	n/v	-	1580000	-	-	-	-	-	-	-	-
Heavy Weight PHC as: Lube Oil	µg/kg	n/v	-	-	-	1180000	-	14200	-	-	-	1240000
Metals												
Arsenic	mg/kg	16 <sub>g</sub> <sup>AB</sup>	-	-	3.78	-	-	-	-	-	-	-
Barium	mg/kg	400 <sup>AB</sup>	-	-	26.1	-	-	-	-	-	-	-
Cadmium	mg/kg	9.3 <sup>A</sup> 4.3 <sup>B</sup>	-	-	0.499 U	-	-	-	-	-	-	-
Chromium (Total)	mg/kg	NS,q <sup>AB</sup>	-	-	5.11	-	-	-	-	-	-	-
Lead	mg/kg	1000 <sup>A</sup> 400 <sup>B</sup>	-	-	15.2	-	-	-	-	-	-	-
Mercury	mg/kg	2.8 <sub>k</sub> <sup>A</sup> 0.81 <sub>k</sub> <sup>B</sup>	-	-	0.0085 U	-	-	-	-	-	-	-
Selenium	mg/kg	1500 <sup>A</sup> 180 <sup>B</sup>	-	-	0.997 U	-	-	-	-	-	-	-
Silver	mg/kg	1500 <sup>A</sup> 180 <sup>B</sup>	-	-	0.997 U	-	-	-	-	-	-	-
Semi - Volatile Organic Compounds												
Acenaphthene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Acenaphthylene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Anthracene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	5600 <sup>A</sup> 1000 <sub>g</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	1000 <sub>g</sub> <sup>AB</sup>	-	-	312 U	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	5600 <sup>A</sup> 1000 <sub>g</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	56000 <sup>A</sup> 3900 <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Chrysene	µg/kg	56000 <sup>A</sup> 3900 <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/kg	560 <sup>A</sup> 330 <sub>g</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Fluoranthene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Fluorene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	5600 <sup>A</sup> 500 <sub>g</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Naphthalene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	-	-	594	-	-	-	-	-	-	-
Phenanthrene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Pyrene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	-	-	312 U	-	-	-	-	-	-	-
Volatile Organic Compounds												
Acetone	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	1080	-
Benzene	µg/kg	44000 <sup>A</sup> 4800 <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Bromodichloromethane	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Bromoform (tribromomethane)	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	346 U	-	284 U	-	1960 U	-	26.1 U	-	39.9 U	-
Bromomethane (Methyl bromide)	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Butylbenzene, n-	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	637	-	1020	-	855	-	10.5 U	-	57.9	-
Butylbenzene, tert-	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Carbon Disulfide	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	18.0	-
Carbon Tetrachloride (Tetrachloromethane)	µg/kg	22000 <sup>A</sup> 2400 <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Chlorobenzene (Monochlorobenzene)	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Chloroethane (Ethyl Chloride)	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Chloroethyl Vinyl Ether, 2-	µg/kg	n/v	692 U	-	568 U	-	3920 U	-	52.3 U	-	79.7 U	-
Chloroform	µg/kg	350000 <sup>A</sup> 49000 <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Chloromethane	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Cymene (p-Isopropyltoluene)	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	460	-	764	-	784 U	-	10.5 U	-	89.1	-
Dibromochloromethane	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichlorobenzene, 1,2-	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichlorobenzene, 1,3-	µg/kg	280000 <sup>A</sup> 49000 <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichlorobenzene, 1,4-	µg/kg	130000 <sup>AB</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichloroethane, 1,1-	µg/kg	240000 <sup>A</sup> 26000 <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichloroethane, 1,2-	µg/kg	30000 <sup>A</sup> 3100 <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichloroethene, 1,1-	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichloroethylene, cis-1,2-	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichloroethylene, trans-1,2-	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichloropropane, 1,2-	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichloropropene, cis-1,3-	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Dichloropropene, trans-1,3-	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Ethylbenzene	µg/kg	390000 <sup>A</sup> 41000 <sup>B</sup>	138 U	-	1520	-	784 U	-	10.5 U	-	21.0	-
Hexanone, 2-	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	346 U	-	284 U	-	1960 U	-	26.1 U	-	39.9 U	-
Isopropylbenzene	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	718	-	784 U	-	14.9	-	17.9	-
Methyl Ethyl Ketone (MEK)	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	284	-
Methyl Isobutyl Ketone (MIBK)	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	346 U	-	284 U	-	1960 U	-	26.1 U	-	39.9 U	-
Methyl tert-butyl ether (MTBE)	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Methylene Chloride (Dichloromethane)	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	346 U	-	284 U	-	1960 U	-	26.1 U	-	39.9 U	-
Naphthalene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	3830	-	1050	-	1960 U	-	26.1 U	-	264	-
Phenylbutane, 2- (sec-Butylbenzene)	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	232	-	518	-	1340	-	70.1	-	34.4	-
Propylbenzene, n-	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	212	-	1190	-	1370	-	36.9	-	44.5	-
Styrene	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	346 U	-	284 U	-	1960 U	-	26.1 U	-	39.9 U	-
Tetrachloroethane, 1,1,2,2-	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Tetrachloroethylene (PCE)	µg/kg	150000 <sup>A</sup> 19000 <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Toluene	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Trichloroethane, 1,1,1-	µg/kg	500000 <sub>c</sub> <sup>A</sup> 100000 <sub>b</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Trichloroethane, 1,1,2-	µg/kg	500000 <sub>c</sub> <sup>A</sup> n/v <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Trichloroethylene (TCE)	µg/kg	200000 <sup>A</sup> 21000 <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Trichlorofluoromethane (Freon 11)	µg/kg	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Trimethylbenzene, 1,2,4-	µg/kg	190000 <sup>A</sup> 52000 <sup>B</sup>	1660	-	9530	-	1000	-	10.5 U	-	1540	-
Trimethylbenzene, 1,3,5-	µg/kg	190000 <sup>A</sup> 52000 <sup>B</sup>	138 U	-	2340	-	784 U	-	10.5 U	-	17.9	-
Vinyl Acetate	µg/kg	n/v	346 U	-	284 U	-	1960 U	-	26.1 U	-	39.9 U	-
Vinyl chloride	µg/kg	13000 <sup>A</sup> 900 <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	15.9 U	-
Xylene, m & p-	µg/kg	500000 <sub>c,p</sub> <sup>A</sup> 100000 <sub>b,p</sub> <sup>B</sup>	138 U	-	1940	-	784 U	-	10.5 U	-	76.9	-
Xylene, o-	µg/kg	500000 <sub>c,o</sub> <sup>A</sup> 100000 <sub>b,o</sub> <sup>B</sup>	138 U	-	114 U	-	784 U	-	10.5 U	-	225	-

Notes:

6NYCRR	NYSDEC 6 NYCRR Part 375 Soil Clean-up Objectives (SCOs)
A	NYSDEC 6 NYCRR Part 375 - Restricted Use SCO - Protection of Human Health - Commercial
B	NYSDEC 6 NYCRR Part 375 - Restricted Use SCO - Protection of Human Health - Restricted Residential
6.5 <sup>A</sup>	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.
b	The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 mg/kg. See 6 NYCRR Part 375 TSD Section 9.3.
c	The SCOs for commercial use were capped at a maximum value of 500 mg/kg. See TSD Section 9.3.
p	The criterion is applicable to total xylenes, and the individual isomers should be added for comparison.
f	For constituents where the calculated SCO was lower than the CRQL, the CRQL is used as the SCO value.
g <sup>AB</sup>	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.
k <sup>AB</sup>	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.
n/v	No value.

Table 6  
Summary of Analytical Results in Groundwater  
June 2011 Sampling  
937 Genesee Street, Rochester, NY  
City of Rochester

Sample Location			MW-3		MW-6		MW-7	Trip Blank
Sample Date			3-Jun-11	3-Jun-11	3-Jun-11	3-Jun-11	3-Jun-11	3-Jun-11
Sample ID			MW-3-GW	MW-3-GW	MW-6-GW	MW-6-GW	MW-7-GW	Trip Blank
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			P11-2234	P11-2234R	P11-2234	P11-2234R	P11-2234	P11-2234
Laboratory Sample ID			7482	7482R	7483	7483R	7481	7480
Sample Type	Units	TOGS						Trip Blank
Petroleum Hydrocarbons								
Medium Weight PHC as: Diesel Fuel	µg/L	n/v	-	346	-	-	-	-
Medium Weight PHC as: Kerosene	µg/L	n/v	-	696	-	598	-	-
Metals								
Arsenic	mg/L	0.025 <sup>B</sup>	0.010 U	-	0.010 U	-	0.010 U	-
Barium	mg/L	1 <sup>B</sup>	0.153	-	0.126 M	-	0.100 U	-
Cadmium	mg/L	0.005 <sup>B</sup>	0.005 U	-	0.005 M	-	0.005 U	-
Chromium (Total)	mg/L	0.05 <sup>B</sup>	0.010 U	-	0.010 U	-	0.010 U	-
Lead	mg/L	0.025 <sup>B</sup>	0.010 U	-	0.010 M	-	0.010 U	-
Mercury	mg/L	0.0007 <sup>B</sup>	0.0002 U	-	0.0002 U	-	0.0002 U	-
Selenium	mg/L	0.01 <sup>B</sup>	0.010 U	-	0.010 U	-	0.018 <sup>B</sup>	-
Silver	mg/L	0.05 <sup>B</sup>	0.010 U	-	0.010 U	-	0.010 U	-
Semi - Volatile Organic Compounds								
Acenaphthene	µg/L	20 <sup>B</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Acenaphthylene	µg/L	n/v	10.0 U	-	10.0 U	-	10.0 U	-
Anthracene	µg/L	50 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Benzo(a)anthracene	µg/L	0.002 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Benzo(a)pyrene	µg/L	n/v	10.0 U	-	10.0 U	-	10.0 U	-
Benzo(b)fluoranthene	µg/L	0.002 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Benzo(g,h,i)perylene	µg/L	n/v	10.0 U	-	10.0 U	-	10.0 U	-
Benzo(k)fluoranthene	µg/L	0.002 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Chrysene	µg/L	0.002 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Dibenzo(a,h)anthracene	µg/L	n/v	10.0 U	-	10.0 U	-	10.0 U	-
Fluoranthene	µg/L	50 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Fluorene	µg/L	50 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Indeno(1,2,3-cd)pyrene	µg/L	0.002 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Naphthalene	µg/L	10 <sup>B</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Phenanthrene	µg/L	50 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Pyrene	µg/L	50 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	-
Volatile Organic Compounds								
Acetone	µg/L	50 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	10.0 U
Benzene	µg/L	1 <sup>B</sup>	6.43 <sup>B</sup>	-	0.703	-	0.700 U	0.700 U
Bromodichloromethane	µg/L	50 <sup>A</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Bromoform (tribromomethane)	µg/L	50 <sup>A</sup>	5.00 U	-	5.00 U	-	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5- <sup>B</sup>	2.00 U	-	2.28	-	2.00 U	2.00 U
Butylbenzene, tert-	µg/L	5- <sup>B</sup>	2.00 U	-	4.03	-	2.00 U	2.00 U
Carbon Disulfide	µg/L	60 <sup>A</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Chloroethane (Ethyl Chloride)	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	10.0 U	-	10.0 U	-	10.0 U	10.0 U
Chloroform	µg/L	7 <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Chloromethane	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Cymene (p-Isopropyltoluene)	µg/L	5- <sup>B</sup>	4.85	-	5.42 <sup>B</sup>	-	2.00 U	2.00 U
Dibromochloromethane	µg/L	50 <sup>A</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3 <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	3 <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	3 <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichloroethane, 1,1-	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6 <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichloroethene, 1,1-	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichloroethylene, cis-1,2-	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichloroethylene, trans-1,2-	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichloropropane, 1,2-	µg/L	1 <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichloropropene, cis-1,3-	µg/L	0.4 <sup>B</sup> <sub>p</sub>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Dichloropropene, trans-1,3-	µg/L	0.4 <sup>B</sup> <sub>p</sub>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Ethylbenzene	µg/L	5- <sup>B</sup>	54.8 <sup>B</sup>	-	2.00 U	-	2.00 U	2.00 U
Hexanone, 2-	µg/L	50 <sup>A</sup>	5.00 U	-	5.00 U	-	5.00 U	5.00 U
Isopropylbenzene	µg/L	5- <sup>B</sup>	18.5 <sup>B</sup>	-	6.37 <sup>B</sup>	-	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK)	µg/L	50 <sup>A</sup>	10.0 U	-	10.0 U	-	10.0 U	10.0 U
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 U	-	5.00 U	-	5.00 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10 <sup>A</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5- <sup>B</sup>	5.00 U	-	5.00 U	-	5.00 U	5.00 U
Naphthalene	µg/L	10 <sup>B</sup>	7.97	-	5.00 U	-	5.00 U	5.00 U
Phenylbutane, 2- (sec-Butylbenzene)	µg/L	5- <sup>B</sup>	3.78	-	20.9 <sup>B</sup>	-	2.00 U	2.00 U
Propylbenzene, n-	µg/L	5- <sup>B</sup>	15.5 <sup>B</sup>	-	11.5 <sup>B</sup>	-	2.00 U	2.00 U
Styrene	µg/L	5- <sup>B</sup>	5.00 U	-	5.00 U	-	5.00 U	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Tetrachloroethylene (PCE)	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Toluene	µg/L	5- <sup>B</sup>	7.01 <sup>B</sup>	-	2.00 U	-	2.00 U	2.00 U
Trichloroethane, 1,1,1-	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	1 <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Trichloroethylene (TCE)	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5- <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5- <sup>B</sup>	60.7 <sup>B</sup>	-	14.5 <sup>B</sup>	-	2.00 U	2.00 U
Trimethylbenzene, 1,3,5-	µg/L	5- <sup>B</sup>	55.7 <sup>B</sup>	-	2.00 U	-	2.00 U	2.00 U
Vinyl Acetate	µg/L	n/v	5.00 U	-	5.00 U	-	5.00 U	5.00 U
Vinyl chloride	µg/L	2 <sup>B</sup>	2.00 U	-	2.00 U	-	2.00 U	2.00 U
Xylene, m & p-	µg/L	5- <sup>B</sup>	86.8 <sup>B</sup>	-	2.00 U	-	2.00 U	2.00 U
Xylene, o-	µg/L	5- <sup>B</sup>	7.99 <sup>B</sup>	-	2.00 U	-	2.00 U	2.00 U

Notes:

TOGS	NYSDEC TOGS 1.1.1 (Reissued June 1998 with errata in January 1999 and addenda in April 2000 and June 2004)
<sup>A</sup>	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
<sup>B</sup>	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 <sup>A</sup>	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.
<sub>p</sub>	Applies to the sum of cis- and trans-1,3-dichloropropene.
M	Denotes matrix spike recoveries outside QC limits. Matrix bias indicated.

# **APPENDIX A**



61 Commercial Street  
Rochester, NY 14614  
(585) 475-1440

Test Boring No.: B-1

Page 1 of 1

Project:	<u>937 Genesee St</u>	Drill Contractor:	<u>Nothnagle</u>	Start Date:	<u>5/23/2011</u>
Project #:	<u>190500696</u>	Driller:	<u>T. Mangefrida</u>	Completion Date:	<u>5/23/2011</u>
Client:	<u>City of Rochester</u>	Elevation:	<u>N/A</u>	Drilling Method:	<u>Macrocore</u>
Location:	<u>937 Genesee Street</u>	Weather:	<u>Sun, 70s F</u>	Supervisor:	<u>S. Reynolds-Smith</u>

0	SAMPLE				Soil Information	
	PID	Rec.	No.	Depth	Remarks	
	0.3	0.8	1	0-4'	Fill/topsoil.	0
					Red-brown CLAYEY SILT, dry-moist.	0.3
		4	2	4-8'	Red-brown CLAYEY SILT, trace fine GRAVEL, dry.	4
5	0.3					
	0					
	0.7	0.9	3	8-9.3'	Red-brown CLAYEY SILT, angular rock fragments, moist, becoming wet at 9'.	8
					Auger refusal at 9.3'.	9.3
10						
15						
20						

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.



61 Commercial Street  
Rochester, NY 14614  
(585) 475-1440

Test Boring No.: B-2

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	5/23/2011
Project #:	190500696	Driller:	T. Mangefrida	Completion Date:	5/23/2011
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sun, 60s-70s F	Supervisor:	S. Reynolds-Smith

0	SAMPLE				Soil Information	
	PID	Rec.	No.	Depth	Remarks	
0		3.1	1	0-4'	Brown fine SAND with orange brick fragments, dry.	0
	7				Black fine SAND, dry.	0.4
					Brown CLAY SILT/ fine SAND, moist-wet.	0.6
	85				Brown to red-brown SILT/fine SAND, moist, black pocket at 2.8'.	1.9
5	222					
	470	1.3	2	4-8'	Brown fine SAND, rock fragments/angular GRAVEL, odor (potentially solvent), moist.	4
	328					
10						
	180	0.5	3	8-9.5'		
				9.5'		
15					Macrocore refusal at 9.5'. Auger refusal at 9'.	9.5
20						

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Sample 4-4.8' for TCL/STARS VOCs and TPH.







61 Commercial Street  
Rochester, NY 14614  
(585) 475-1440

Test Boring No.: B-4

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	5/23/2011
Project #:	190500696	Driller:	T. Mangefrida	Completion Date:	5/23/2011
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Cloudy, humid,	Supervisor:	D. Bauch-Barker

0	SAMPLE				Soil Information	
	PID	Rec.	No.	Depth	Remarks	
		2.7	1	0-4'	Concrete.	0
	1				Black cinder and white ash, little fine-medium GRAVEL moist.	0.35
					Tan brown grading to reddish brown fine SAND and SILT, moist.	1.1
	0					
	0					
	1.9	4	2	4-8'	Same as above with interval of black cinder at 4.3-4.4'.	4
5						
					Tan brown to gray brown CLAYEY SILT, trace mineralization, moist grading to wet, at 6.7', odor.	5.3
	274					
	971					
		1.4	3	8-12'	Gray brown fine SAND, little SILT, trace fine GRAVEL, moist, odor.	8
	6.6				Gray brown rock, dry.	8.4
					Gray brown fine SAND, little SILT, trace fine GRAVEL, moist-wet.	8.7
10						
	0.8					
		1.8	4	12-14.5		
	461				Fine-coarse GRAVEL and broken rock, little fine-coarse SAND, wet.	12.7
	49.3					
15					Macrocore refusal at 14.5'.	
20						

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Sample 7.5-8' for TCL/STARS VOCs and TPH.



61 Commercial Street  
Rochester, NY 14614  
(585) 475-1440

Test Boring No.: B-5

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	5/24/2011
Project #:	190500696	Driller:	T. Mangefrida	Completion Date:	5/24/2011
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Cloudy, 60s F	Supervisor:	D. Bauch-Barker

0	SAMPLE				Soil Information	
	PID	Rec.	No.	Depth	Remarks	
		3	1	0-4'	Brown fine-medium SAND, some fine-medium GRAVEL and broken concrete, moist-wet.	0
	0.4					
					Black cinder and white ash, some brown SAND, little fine GRAVEL, moist.	0.5
	0.2				Reddish brown with brown fine SAND, some SILT, moist.	1
		3.1	2	4-8'	Reddish brown with brown fine SAND, some SILT, grading to light SILTY fine SAND, moist-wet, trace clay at 5.9'.	4
5	0.2					
	0.2					
		2.7	3	8-12'		
	0.1					
					Grayish brown fine SAND, some silt, little fine-medium GRAVEL, wet.	9.4
10	0.3					
	0.1	1.7	4	12-14.6	Same as above except reddish brown.	12
					Gray broken rock fragments, little fine-coarse SAND, wet.	12.9
	1.5					
15					Macrocore refusal at 14.6'.	14.6
20						

Notes:

- PID Model Mini-Rae 2000 with 10.6eV lamp.





61 Commercial Street  
Rochester, NY 14614  
(585) 475-1440

Test Boring No.: B-7

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	5/24/2011
Project #:	190500696	Driller:	T. Mangefrida	Completion Date:	5/24/2011
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Cloudy, 70s F	Supervisor:	D. Bauch-Barker

0	SAMPLE				Soil Information Remarks	
	PID	Rec.	No.	Depth		
		1.8	1	0-4'	7.5" concrete cored out.	0
	0.2				Gray GRAVEL, wet.	0.6
					Gray-brown fine-medium SAND, moist, trace white ash and gray-black cinder, little fine-medium GRAVEL.	0.8
	0.1				Reddish-brown grading to brown fine SAND and SILT, moist.	1.3
		2.8	2	4-8'	Same as above, moist-wet.	4
5	0.1				Brick red fine SAND with shiny flakes, moist-wet.	4.9
					Reddish-brown SILT and fine SAND, trace CLAY, moist-wet, trace fine GRAVEL.	5
	0					
		2.8	3	8-12'		
	0.1					
					Gray fine SAND, some SILT, little fine-medium GRAVEL/broken rock, moist-wet.	9.8
10						
	1.3					
	0.3	1.2	4	12-13.6'	Same as above, wet.	12
					Gray broken rock, little fine-coarse SAND, wet.	12.6
					Macrocore refusal at 13.6'.	13.6
15						
20						

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Monitoring well MW-7 installed in boring; screened 8.6'-13.6'.



61 Commercial Street  
Rochester, NY 14614  
(585) 475-1440

Test Boring No.: B-8

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	5/24/2011
Project #:	190500696	Driller:	T. Mangefrida	Completion Date:	5/24/2011
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Cloudy, 70s F	Supervisor:	D. Bauch-Barker

0	SAMPLE				Soil Information	
	PID	Rec.	No.	Depth	Remarks	
	0.4	2.9	1	0-4'	Black asphalt and base, some dark brown fine-coarse SAND, little white ash, moist, little fine-medium GRAVEL.	0
					Brown grading to tan-brown fine SAND, some SILT, moist, trace red brown mottling.	0.4
	1.7					
	2.1					
		3.4	2	4-8'	Reddish brown fine SAND, some SILT, moist-wet at 4.0-5.4', moist at 5.4-7.4'.	4
5	0.1					
	0.6					
	0.3	1.9	3	8-9.8'	Reddish brown SILT, some fine SAND, moist-wet.	8
					Grayish brown fine SAND, little SILT, wet, little fine GRAVEL.	8.7
	0.4					
10					Macrocore refusal at 9.8'	9.8
15						
20						

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.

## **APPENDIX B**



## WELL DEVELOPMENT RECORD

Job Name: 937 Genesee St  
Well ID: MW-3  
Personnel: Dorothy Bauch-Barker  
Samuel Burke

Job No: 190500696  
Date/Time: 6/1/2011

Well Depth (ft): 10.81  
Water Level (ft): (-) 8.1  
Water Col.(ft): 2.71

Well Volume (Gal): 0.43  
(See Calculations)  
Total Volume Removed: 2.8 gal  
Development Method: Bailer

### Development Monitoring

Volume number/Time	1/ 0957	2/ 1001	3/ 1005	4/ 1008	5/ 1016
Volume Purged(gal)	<u>0</u>	<u>0.9</u>	<u>1.3</u>	<u>1.7</u>	<u>1.9</u>
Temp(C)	<u>16</u>	<u>15</u>	<u>13</u>	<u>13</u>	<u>12</u>
pH	<u>10.5</u>	<u>10.6</u>	<u>10.6</u>	<u>10.5</u>	<u>10.5</u>
Spec. Cond(mS/cm)	<u>1.4</u>	<u>1.3</u>	<u>1.3</u>	<u>1.3</u>	<u>1.4</u>
Turbidity (NTU)	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>
Dissolved Oxygen mg/l	<u>6.9</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.6</u>
ORP (eV)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Color/odor	<u>Tan, petro- leum odor</u>	<u>Tan, petro- leum odor</u>	<u>Tan, petro- leum odor</u>	<u>Tan, petro- leum odor</u>	<u>Tan, petro- leum odor</u>

Volume number/Time	6/ 1019	7/ 1132	8/ 1135	9/ 1138	
Volume Purged(gal)	<u>2.1</u>	<u>2.1</u>	<u>2.6</u>	<u>2.8</u>	
Temp(C)	<u>13</u>	<u>14</u>	<u>12</u>	<u>13</u>	
pH	<u>10.5</u>	<u>10.6</u>	<u>10.6</u>	<u>10.5</u>	
Spec. Cond(mS/cm)	<u>1.3</u>	<u>1.3</u>	<u>1.3</u>	<u>1.3</u>	
Turbidity (NTU)	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>	
Dissolved Oxygen mg/l	<u>6</u>	<u>13.6</u>	<u>15.3</u>	<u>13.7</u>	
ORP (eV)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
Color/odor	<u>Tan, petro- leum odor</u>	<u>Tan, petro- leum odor</u>	<u>Tan, petro- leum odor</u>	<u>Tan, petro- leum odor</u>	

Meter ID LaMotte 2020 R5271, Horiba U10 R6521, Stantec interface probe

### Well Vol. Calcs.

Note: 1" dia. well 1'=0.04 gal; 1.5" dia. well 1'=0.09'  
Note: 2" dia. well 1'=0.16 gal; 4" dia. well 1'=0.65'

Weather Sunny, hot, 80s F

Comments Well dry @ 1019 and 1138. Final measurements: DTW=9.79', Total Depth=11.05'

Checked By \_\_\_\_\_ Date \_\_\_\_\_





## WELL DEVELOPMENT RECORD

Job Name: 937 Genesee St  
Well ID: MW-6  
Personnel: Dorothy Bauch-Barker  
Samuel Burke

Job No: 190500696  
Date/Time: 6/1/2011

Well Depth (ft): 11.96  
Water Level (ft): (-) 8.4  
Water Col.(ft): 3.56

Well Volume (Gal): 0.57  
(See Calculations)  
Total Volume Removed: 5.3 gal  
Development Method: Bailer

### Development Monitoring

Volume number/Time	1/ 1054	2/ 1057	3/ 1059	4/ 1103	5/ 1105
Volume Purged(gal)	0.5	0.8	1.6	2	2.6
Temp(C)	14	15	12	12	13
pH	10.4	10.4	10.5	10.5	10.5
Spec. Cond(mS/cm)	1.6	1.4	1.4	1.3	1.3
Turbidity (NTU)	err-3	err-3	err-3	err-3	err-3
Dissolved Oxygen mg/l	6.4	5.7	6	5	4.7
ORP (eV)	N/A	N/A	N/A	N/A	N/A
Color/odor	Light brown	Brown	Brown	Brown	Brown

Volume number/Time	6/ 1108	7/ 1111	8/ 1113	9/ 1115	10/ 1118	11/ 1121
Volume Purged(gal)	3	3.6	3.8	4.2	4.6	5.3
Temp(C)	12	12	12	11	12	12
pH	10.5	10.5	10.5	10.5	10.5	10.5
Spec. Cond(mS/cm)	1.3	1.3	1.3	1.3	1.3	1.3
Turbidity (NTU)	err-3	err-3	err-3	err-3	err-3	err-3
Dissolved Oxygen mg/l	4.8	4.5	4.5	4.4	4.2	4
ORP (eV)	N/A	N/A	N/A	N/A	N/A	N/A
Color/odor	Brown	Brown	Light brown	Light brown	Light brown	Light brown

Meter ID LaMotte 2020 R5271, Horiba U10 R6521, Stantec interface probe

### Well Vol. Calcs.

Note: 1" dia. well 1'=0.04 gal; 1.5" dia. well 1'=0.09'  
Note: 2" dia. well 1'=0.16 gal; 4" dia. well 1'=0.65'

Weather Sunny, hot, 80s F  
Comments Final measurements: DTW=8.09', Total Depth=11.95'

Checked By \_\_\_\_\_ Date \_\_\_\_\_



## WELL DEVELOPMENT RECORD

Job Name: 937 Genesee St  
Well ID: MW-7  
Personnel: Dorothy Bauch-Barker  
Samuel Burke

Job No: 190500696  
Date/Time: 6/1/2011

Well Depth (ft): 13.02  
Water Level (ft): (-) 9.44  
Water Col.(ft): 3.58

Well Volume (Gal): 0.57  
(See Calculations)  
Total Volume Removed: 5.5 gal  
Development Method: Bailer

### Development Monitoring

Volume number/Time	1/ 0915	2/ 0917	3/ 0919	4/ 0921	5/ 0924
Volume Purged(gal)	<u>0.33</u>	<u>1.3</u>	<u>1.8</u>	<u>2.6</u>	<u>3.3</u>
Temp(C)	<u>15</u>	<u>13</u>	<u>12</u>	<u>12</u>	<u>12</u>
pH	<u>9.8</u>	<u>10.3</u>	<u>10.5</u>	<u>10.5</u>	<u>10.6</u>
Spec. Cond(mS/cm)	<u>1.3</u>	<u>1.1</u>	<u>1.2</u>	<u>1.1</u>	<u>0.98</u>
Turbidity (NTU)	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>
Dissolved Oxygen mg/l	<u>5.3</u>	<u>5.9</u>	<u>6</u>	<u>5.8</u>	<u>5.6</u>
ORP (eV)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Color/odor	<u>Tan</u>	<u>Brown</u>	<u>Brown</u>	<u>Brown</u>	<u>Brown</u>

Volume number/Time	6/ 0928	7/ 0930	8/ 0933	9/ 0937	10/ 0938
Volume Purged(gal)	<u>3.9</u>	<u>4.2</u>	<u>4.5</u>	<u>4.9</u>	<u>5.5</u>
Temp(C)	<u>12</u>	<u>12</u>	<u>12</u>	<u>2</u>	<u>13</u>
pH	<u>10.6</u>	<u>10.6</u>	<u>10.6</u>	<u>10.6</u>	<u>10.6</u>
Spec. Cond(mS/cm)	<u>0.97</u>	<u>0.98</u>	<u>0.98</u>	<u>0.98</u>	<u>0.95</u>
Turbidity (NTU)	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>	<u>err-3</u>
Dissolved Oxygen mg/l	<u>5.6</u>	<u>5.5</u>	<u>5.7</u>	<u>5.9</u>	<u>5.6</u>
ORP (eV)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Color/odor	<u>Light brown</u>	<u>Light brown</u>	<u>Light brown</u>	<u>Light brown</u>	<u>Light brown</u>

Meter ID LaMotte 2020 R5271, Horiba U10 R6521, Stantec interface probe

### Well Vol. Calcs.

Note: 1" dia. well 1'=0.04 gal; 1.5" dia. well 1'=0.09'  
Note: 2" dia. well 1'=0.16 gal; 4" dia. well 1'=0.65'

Weather Sunny, hot, 80s F  
Comments Final measurements: DTW=9.49', Total Depth=12.94'

Checked By \_\_\_\_\_ Date \_\_\_\_\_

**Stantec****GROUNDWATER SAMPLING FORM**

Job Name: 937 Genesee St  
 Well ID: MW-3  
 Samplers: Dorothy Bauch-Barker  
Samuel Burke

Job No: 190500696  
 Date/Time: 6/3/2011

Well Depth (ft):	<u>10.86</u>	Min. Purge Vol. (Gal):	<u>0.379</u>
Water Level (ft): (-)	<u>8.49</u>	(See Calculations)	
Water Col.(ft):	<u>2.37</u>	Volume Purged:	<u>1.4</u>
		Purge Method:	<u>Peristaltic</u>

Purge Monitoring							
Vol. Purged/ Time	<u>0/1015</u>	<u>0.2/1020</u>	<u>0.3/1025</u>	<u>0.6/1030</u>	<u>0.7/1035</u>	<u>1.1/1040</u>	<u>1.4/1045</u>
Temp(C)	<u>13.27</u>	<u>13.81</u>	<u>13.01</u>	<u>12.99</u>	<u>12.93</u>	<u>12.98</u>	<u>12.84</u>
pH	<u>6.96</u>	<u>6.98</u>	<u>7</u>	<u>7.04</u>	<u>7.08</u>	<u>7.09</u>	<u>7.14</u>
Spec. Cond(mS/cm)	<u>2.87</u>	<u>2.72</u>	<u>4.83</u>	<u>9.39</u>	<u>25.1</u>	<u>24.4</u>	<u>24.9</u>
Turbidity (NTU)	<u>20.3</u>	<u>27.4</u>	<u>33.4</u>	<u>27.6</u>	<u>26.3</u>	<u>24.6</u>	<u>26.5</u>
Dissolved Oxygen mg/l	<u>9.64</u>	<u>8.16</u>	<u>7.18</u>	<u>6.39</u>	<u>5.83</u>	<u>6.03</u>	<u>5.99</u>
ORP (eV)	<u>248</u>	<u>233</u>	<u>217</u>	<u>18.8</u>	<u>158</u>	<u>166</u>	<u>157</u>
Water level	<u>8.85</u>	<u>9.06</u>	<u>9.2</u>	<u>9.48</u>	<u>9.72</u>	<u>9.92</u>	<u>10.15</u>
Color/odor	<u>Petroleum odor</u>	<u>Petroleum odor</u>	<u>Petroleum odor</u>	<u>Petroleum odor</u>	<u>Petroleum odor</u>	<u>Petroleum odor</u>	<u>Petroleum odor</u>

<u>Container</u>	<u>Parameter</u>	<u>Preservative</u>	<u>Filtered (Y/N)</u>
<u>2 x 40mL vial</u>	<u>TCL, STARS VOC</u>	<u>HCl</u>	<u>N</u>
<u>1L amber</u>	<u>STARS SVOC (see comment</u>	<u>-</u>	<u>N</u>
<u>500mL plastic</u>	<u>RCRA Metals</u>	<u>HNO3</u>	<u>N</u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>

Physical Appearance/Odor: See above  
 Sample ID: MW-3-GW Sample Time: 1047

<u>Field Parameters @ Sampling</u>	<u>See above</u>	<u>Temp</u>	<u>pH</u>	<u>Spec. Conductivity</u>	<u>Turbidity</u>	<u>DO</u>	<u>ORP</u>

Meter ID LaMotte 2020R R9642, Horiba U22 R9715, Geopump R11994, Stantec IP

C of C Number                       
 Sample Containers Labeled                       
 Sample Delivery Via                       
 Analytical Laboratory                     

<u>Well Vol. Calcs.</u>  Note: 1" dia. well l'=0.04 gal; 1.5" dia. well l'=0.09 gal. Note: 2" dia. well l'=0.16 gal; 4" dia. well l'=0.65' gal.
--

Weather Sunny, 60s F  
 Comments SVOC sample retaken at 1411 to avoid turbidity (water level=8.85)

Checked By                      Date



Stantec

# GROUNDWATER SAMPLING FORM

Job Name: 937 Genesee St  
 Well ID: MW-6  
 Samplers: Dorothy Bauch-Barker  
Samuel Burke

Job No: 1.91E+08  
 Date/Time: 6/3/2011

Well Depth (ft): 11.97 Min. Purge Vol. (Gal): 0.552  
 Water Level (ft): (-) 8.52 (See Calculations)  
 Water Col.(ft): 3.45 Volume Purged: 1.7  
 Purge Method: Peristaltic

Purge Monitoring										
Vol. Purged/ Time	<u>0.0/1250</u>	<u>0.5/1255</u>	<u>1.0/1300</u>	<u>1.2/1305</u>	<u>1.3/1310</u>	<u>1.4/1315</u>	<u>1.5/1320</u>	<u>1.5/1325</u>	<u>1.6/1330</u>	<u>1.7/1335</u>
Temp(C)	<u>12.23</u>	<u>11.75</u>	<u>11.77</u>	<u>11.89</u>	<u>11.86</u>	<u>11.82</u>	<u>11.99</u>	<u>12.14</u>	<u>12.12</u>	<u>12.09</u>
pH	<u>6.88</u>	<u>6.88</u>	<u>6.93</u>	<u>6.95</u>	<u>6.97</u>	<u>7</u>	<u>7</u>	<u>7.02</u>	<u>7.06</u>	<u>7.02</u>
Spec. Cond(mS/cm)	<u>1.49</u>	<u>3.02</u>	<u>3.25</u>	<u>2.93</u>	<u>2.7</u>	<u>2.43</u>	<u>2.18</u>	<u>2.03</u>	<u>2.03</u>	<u>1.83</u>
Turbidity (NTU)	<u>199</u>	<u>97.8</u>	<u>57.5</u>	<u>47</u>	<u>33.8</u>	<u>28.2</u>	<u>18.1</u>	<u>16</u>	<u>13.1</u>	<u>10.53</u>
Dissolved Oxygen mg/l	<u>10.34</u>	<u>7.33</u>	<u>6.2</u>	<u>5.78</u>	<u>5.59</u>	<u>5.38</u>	<u>5.23</u>	<u>5.17</u>	<u>5.2</u>	<u>5.23</u>
ORP (eV)	<u>190</u>	<u>107</u>	<u>65</u>	<u>62</u>	<u>40</u>	<u>36</u>	<u>30</u>	<u>75</u>	<u>42</u>	<u>36</u>
Water level	<u>8.53</u>	<u>8.52</u>	<u>8.53</u>	<u>8.52</u>	<u>8.53</u>	<u>8.51</u>	<u>8.51</u>	<u>8.51</u>	<u>8.51</u>	<u>8.52</u>
Color/odor										

Container	Parameter	Preservative	Filtered (Y/N)
<u>2 x 40mL vial</u>	<u>TCL, STARS VOC</u>	<u>HCl</u>	<u>N</u>
<u>1L amber</u>	<u>STARS SVOC</u>	<u>-</u>	<u>N</u>
<u>500mL plastic</u>	<u>RCRA Metals</u>	<u>HNO3</u>	<u>N</u>

Physical Appearance/Odor: See above  
 Sample ID: MW-6-GW Sample Time 1340

Field Parameters @ Sampling See above Sampling Method   
Temp pH Spec. Turbidity DO ORP  
Conductivity

Meter ID LaMotte 2020R R9642, Horiba U22 R9715, Geopump R11994,  
Stantec IP

C of C Number   
 Sample Containers Labeled   
 Sample Delivery Via   
 Analytical Laboratory

Well Vol. Calcs.  
 Note: 1" dia. well 1'=0.04 gal; 1.5" dia. well 1'=0.09 gal.  
 Note: 2" dia. well 1'=0.16 gal; 4" dia. well 1'=0.65' gal.

Weather Sunny, 60s F  
 Comments

Checked By  Date

**Stantec****GROUNDWATER SAMPLING FORM**

Job Name: 937 Genesee St  
 Well ID: MW-7  
 Samplers: Dorothy Bauch-Barker  
Samuel Burke

Job No: 190500696  
 Date/Time: 6/3/2011

Well Depth (ft): 12.94 Min. Purge Vol. (Gal): 0.496  
 Water Level (ft): (-) 9.84 (See Calculations)  
 Water Col.(ft): 3.1 Volume Purged: 0.9  
 Purge Method: Peristaltic

Purge Monitoring	0/0908	0.2/0913	0.3/0918	0.3/0923	0.4/0928	0.7/0933	0.9/0938
Vol. Purged/ Time							
Temp(C)	13.01	11.7	11.9	12.01	12.08	11.85	11.8
pH	6.89	7.03	7.09	7.11	7.12	7.13	7.14
Spec. Cond(mS/cm)	1.21	1.07	1.07	1.08	1.08	1.08	1.08
Turbidity (NTU)	422	190	105	73.4	43.1	29.4	18.7
Dissolved Oxygen mg/l	14.81	11.06	10.17	9.25	8.98	8.75	8.68
ORP (eV)	283	284	185	291	296	299	301
Water level	9.86	9.85	9.84	9.85	9.85	9.85	9.85
Color/odor							

Container	Parameter	Preservative	Filtered (Y/N)
2 x 40mL vial	TCL, STARS VOC	HCl	N
1L amber	STARS SVOC	-	N
500mL plastic	RCRA Metals	HNO3	N

Physical Appearance/Odor: See above  
 Sample ID: MW-7-GW Sample Time: 940

Field Parameters @ Sampling	See above	Sampling Method				
	Temp	pH	Spec. Conductivity	Turbidity	DO	ORP

Meter ID LaMotte 2020R R9642, Horiba U22 R9715, Geopump R11994, Stantec IP

C of C Number   
 Sample Containers Labeled   
 Sample Delivery Via   
 Analytical Laboratory

Well Vol. Calcs.  
 Note: 1" dia. well 1'=0.04 gal; 1.5" dia. well 1'=0.09 gal.  
 Note: 2" dia. well 1'=0.16 gal; 4" dia. well 1'=0.65' gal.

Weather Sunny, 60s F  
 Comments   
 Checked By  Date

## **APPENDIX C**



**PARADIGM**  
ENVIRONMENTAL SERVICES, INC.

## Analytical Report Cover Page

**Stantec**

For Lab Project #11-2070

Issued June 7, 2011

This report contains a total of 10 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.

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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:

**"<" = analyzed for but not detected at or above the reporting limit.**

**"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.**

**Volatile Analysis Report for Soils/Solids/Sludges**Client: **Stantec**

Client Job Site: Genesee St.

Lab Project Number: 11-2070

Lab Sample Number: 7013

Client Job Number: 190500696

Field Location: SED1

Date Sampled: 05/23/2011

Field ID Number: N/A

Date Received: 05/24/2011

Sample Type: Soil

Date Analyzed: 06/03/2011

Halocarbons	Results in ug / Kg
Bromodichloromethane	< 15.9
Bromomethane	< 15.9
Bromoform	< 39.9
Carbon Tetrachloride	< 15.9
Chloroethane	< 15.9
Chloromethane	< 15.9
2-Chloroethyl vinyl Ether	< 79.7
Chloroform	< 15.9
Dibromochloromethane	< 15.9
1,1-Dichloroethane	< 15.9
1,2-Dichloroethane	< 15.9
1,1-Dichloroethene	< 15.9
cis-1,2-Dichloroethene	< 15.9
trans-1,2-Dichloroethene	< 15.9
1,2-Dichloropropane	< 15.9
cis-1,3-Dichloropropene	< 15.9
trans-1,3-Dichloropropene	< 15.9
Methylene chloride	< 39.9
1,1,2,2-Tetrachloroethane	< 15.9
Tetrachloroethene	< 15.9
1,1,1-Trichloroethane	< 15.9
1,1,2-Trichloroethane	< 15.9
Trichloroethene	< 15.9
Trichlorofluoromethane	< 15.9
Vinyl chloride	< 15.9

Aromatics	Results in ug / Kg
Benzene	< 15.9
Chlorobenzene	< 15.9
Ethylbenzene	21.0
Toluene	< 15.9
m,p-Xylene	76.9
o-Xylene	225
Styrene	< 39.9
1,2-Dichlorobenzene	< 15.9
1,3-Dichlorobenzene	< 15.9
1,4-Dichlorobenzene	< 15.9

Ketones	Results in ug / Kg
Acetone	1,080
2-Butanone	284
2-Hexanone	< 39.9
4-Methyl-2-pentanone	< 39.9

Miscellaneous	Results in ug / Kg
Carbon disulfide	18.0
Vinyl acetate	< 39.9

ELAP Number 10958

Method: EPA 8260B

Data File: V85266.D

Comments: ug / Kg = microgram per Kilogram

Internal Standard outliers indicate probable matrix interference

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.

112070V1.XLS





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

Client: **Stantec**

Client Job Site: Genesee St.

Lab Project Number: 11-2070

Lab Sample Number: 7013

Client Job Number: 190500696

Field Location: SED1

Date Sampled: 05/23/2011

Field ID Number: N/A

Date Received: 05/24/2011

Sample Type: Soil

Date Analyzed: 06/03/2011

Compound	Results in ug / Kg	Compound	Results in ug / Kg
n-Butylbenzene	57.9	1,2,4-Trimethylbenzene	1,540
sec-Butylbenzene	34.4	1,3,5-Trimethylbenzene	17.9
tert-Butylbenzene	< 15.9		
n-Propylbenzene	44.5	<b>Miscellaneous</b>	
Isopropylbenzene	17.9	Methyl tert-butyl Ether	< 15.9
p-Isopropyltoluene	89.1		
Naphthalene	264		

ELAP Number 10958

Method: EPA 8260B

Data File: V85266.D

Comments: ug / Kg = microgram per Kilogram

Internal Standard outliers indicate probable matrix interference

Signature: \_\_\_\_\_

  
Bruce Hoogestegen, Technical Director

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112070V1.XLS

**Volatile Analysis Report for Soils/Solids/Sludges**Client: **Stantec**

Client Job Site: Genesee St.

Lab Project Number: 11-2070

Lab Sample Number: 7014

Client Job Number: 190500696

Field Location: B2 (4-4.8)

Date Sampled: 05/23/2011

Field ID Number: N/A

Date Received: 05/24/2011

Sample Type: Soil

Date Analyzed: 06/03/2011

<b>Halocarbons</b>	<b>Results in ug / Kg</b>
Bromodichloromethane	< 138
Bromomethane	< 138
Bromoform	< 346
Carbon Tetrachloride	< 138
Chloroethane	< 138
Chloromethane	< 138
2-Chloroethyl vinyl Ether	< 692
Chloroform	< 138
Dibromochloromethane	< 138
1,1-Dichloroethane	< 138
1,2-Dichloroethane	< 138
1,1-Dichloroethene	< 138
cis-1,2-Dichloroethene	< 138
trans-1,2-Dichloroethene	< 138
1,2-Dichloropropane	< 138
cis-1,3-Dichloropropene	< 138
trans-1,3-Dichloropropene	< 138
Methylene chloride	< 346
1,1,2,2-Tetrachloroethane	< 138
Tetrachloroethene	< 138
1,1,1-Trichloroethane	< 138
1,1,2-Trichloroethane	< 138
Trichloroethene	< 138
Trichlorofluoromethane	< 138
Vinyl chloride	< 138

<b>Aromatics</b>	<b>Results in ug / Kg</b>
Benzene	< 138
Chlorobenzene	< 138
Ethylbenzene	< 138
Toluene	< 138
m,p-Xylene	< 138
o-Xylene	< 138
Styrene	< 346
1,2-Dichlorobenzene	< 138
1,3-Dichlorobenzene	< 138
1,4-Dichlorobenzene	< 138

<b>Ketones</b>	<b>Results in ug / Kg</b>
Acetone	< 692
2-Butanone	< 692
2-Hexanone	< 346
4-Methyl-2-pentanone	< 346

<b>Miscellaneous</b>	<b>Results in ug / Kg</b>
Carbon disulfide	< 138
Vinyl acetate	< 346

ELAP Number 10958

Method: EPA 8260B

Data File: V85267.D

Comments: ug / Kg = microgram per Kilogram

Signature: \_\_\_\_\_

Bruce Hoogesteger, Technical Director

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112070V2.XLS

**Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)**Client: **Stantec**

Client Job Site: Genesee St.

Lab Project Number: 11-2070

Lab Sample Number: 7014

Client Job Number: 190500696

Field Location: B2 (4-4.8)

Date Sampled: 05/23/2011

Field ID Number: N/A

Date Received: 05/24/2011

Sample Type: Soil

Date Analyzed: 06/03/2011

Compound	Results in ug / Kg	Compound	Results in ug / Kg
n-Butylbenzene	637	1,2,4-Trimethylbenzene	1,660
sec-Butylbenzene	232	1,3,5-Trimethylbenzene	< 138
tert-Butylbenzene	< 138		
n-Propylbenzene	212	<b>Miscellaneous</b>	
Isopropylbenzene	< 138	Methyl tert-butyl Ether	< 138
p-Isopropyltoluene	460		
Naphthalene	3,830		

ELAP Number 10958

Method: EPA 8260B

Data File: V85267.D

Comments: ug / Kg = microgram per Kilogram

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

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112070V2.XLS

**Volatile Analysis Report for Soils/Solids/Sludges**Client: **Stantec**

Client Job Site: Genesee St.

Lab Project Number: 11-2070

Lab Sample Number: 7016

Client Job Number: 190500696

Field Location: B6 (7-8)

Date Sampled: 05/23/2011

Field ID Number: N/A

Date Received: 05/24/2011

Sample Type: Soil

Date Analyzed: 06/03/2011

Halocarbons	Results in ug / Kg
Bromodichloromethane	< 10.5
Bromomethane	< 10.5
Bromoform	< 26.1
Carbon Tetrachloride	< 10.5
Chloroethane	< 10.5
Chloromethane	< 10.5
2-Chloroethyl vinyl Ether	< 52.3
Chloroform	< 10.5
Dibromochloromethane	< 10.5
1,1-Dichloroethane	< 10.5
1,2-Dichloroethane	< 10.5
1,1-Dichloroethene	< 10.5
cis-1,2-Dichloroethene	< 10.5
trans-1,2-Dichloroethene	< 10.5
1,2-Dichloropropane	< 10.5
cis-1,3-Dichloropropene	< 10.5
trans-1,3-Dichloropropene	< 10.5
Methylene chloride	< 26.1
1,1,2,2-Tetrachloroethane	< 10.5
Tetrachloroethene	< 10.5
1,1,1-Trichloroethane	< 10.5
1,1,2-Trichloroethane	< 10.5
Trichloroethene	< 10.5
Trichlorofluoromethane	< 10.5
Vinyl chloride	< 10.5

Aromatics	Results in ug / Kg
Benzene	< 10.5
Chlorobenzene	< 10.5
Ethylbenzene	< 10.5
Toluene	< 10.5
m,p-Xylene	< 10.5
o-Xylene	< 10.5
Styrene	< 26.1
1,2-Dichlorobenzene	< 10.5
1,3-Dichlorobenzene	< 10.5
1,4-Dichlorobenzene	< 10.5

Ketones	Results in ug / Kg
Acetone	< 52.3
2-Butanone	< 52.3
2-Hexanone	< 26.1
4-Methyl-2-pentanone	< 26.1

Miscellaneous	Results in ug / Kg
Carbon disulfide	< 10.5
Vinyl acetate	< 26.1

ELAP Number 10958

Method: EPA 8260B

Data File: V85268.D

Comments: ug / Kg = microgram per Kilogram

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

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112070V3.XLS



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

Client: **Stantec**

Client Job Site: Genesee St.

Lab Project Number: 11-2070

Lab Sample Number: 7016

Client Job Number: 190500696

Field Location: B6 (7-8)

Date Sampled: 05/23/2011

Field ID Number: N/A

Date Received: 05/24/2011

Sample Type: Soil

Date Analyzed: 06/03/2011

Compound	Results in ug / Kg	Compound	Results in ug / Kg
n-Butylbenzene	< 10.5	1,2,4-Trimethylbenzene	< 10.5
sec-Butylbenzene	70.1	1,3,5-Trimethylbenzene	< 10.5
tert-Butylbenzene	< 10.5		
n-Propylbenzene	36.9	<b>Miscellaneous</b>	
Isopropylbenzene	14.9	Methyl tert-butyl Ether	< 10.5
p-Isopropyltoluene	< 10.5		
Naphthalene	< 26.1		

ELAP Number 10958

Method: EPA 8260B

Data File: V85268.D

Comments: 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.

112070V3.XLS

**Volatile Analysis Report for Soils/Solids/Sludges**Client: **Stantec**

Client Job Site: Genesee St.

Lab Project Number: 11-2070

Lab Sample Number: 7017

Client Job Number: 190500696

Field Location: B4 (7.5-8)

Date Sampled: 05/23/2011

Field ID Number: N/A

Date Received: 05/24/2011

Sample Type: Soil

Date Analyzed: 06/06/2011

Halocarbons	Results in ug / Kg
Bromodichloromethane	< 784
Bromomethane	< 784
Bromoform	< 1,960
Carbon Tetrachloride	< 784
Chloroethane	< 784
Chloromethane	< 784
2-Chloroethyl vinyl Ether	< 3,920
Chloroform	< 784
Dibromochloromethane	< 784
1,1-Dichloroethane	< 784
1,2-Dichloroethane	< 784
1,1-Dichloroethene	< 784
cis-1,2-Dichloroethene	< 784
trans-1,2-Dichloroethene	< 784
1,2-Dichloropropane	< 784
cis-1,3-Dichloropropene	< 784
trans-1,3-Dichloropropene	< 784
Methylene chloride	< 1,960
1,1,2,2-Tetrachloroethane	< 784
Tetrachloroethene	< 784
1,1,1-Trichloroethane	< 784
1,1,2-Trichloroethane	< 784
Trichloroethene	< 784
Trichlorofluoromethane	< 784
Vinyl chloride	< 784

Aromatics	Results in ug / Kg
Benzene	< 784
Chlorobenzene	< 784
Ethylbenzene	< 784
Toluene	< 784
m,p-Xylene	< 784
o-Xylene	< 784
Styrene	< 1,960
1,2-Dichlorobenzene	< 784
1,3-Dichlorobenzene	< 784
1,4-Dichlorobenzene	< 784

Ketones	Results in ug / Kg
Acetone	< 3,920
2-Butanone	< 3,920
2-Hexanone	< 1,960
4-Methyl-2-pentanone	< 1,960

Miscellaneous	Results in ug / Kg
Carbon disulfide	< 784
Vinyl acetate	< 1,960

ELAP Number 10958

Method: EPA 8260B

Data File: V85312.D

Comments: 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.

112070V4.XLS

**Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)**Client: **Stantec**

Client Job Site: Genesee St.

Lab Project Number: 11-2070

Client Job Number: 190500696

Lab Sample Number: 7017

Field Location: B4 (7.5-8)

Date Sampled: 05/23/2011

Field ID Number: N/A

Date Received: 05/24/2011

Sample Type: Soil

Date Analyzed: 06/06/2011

Compound	Results in ug / Kg	Compound	Results in ug / Kg
n-Butylbenzene	855	1,2,4-Trimethylbenzene	1,000
sec-Butylbenzene	1,340	1,3,5-Trimethylbenzene	< 784
tert-Butylbenzene	< 784		
n-Propylbenzene	1,370	<b>Miscellaneous</b>	
Isopropylbenzene	< 784	Methyl tert-butyl Ether	< 784
p-Isopropyltoluene	< 784		
Naphthalene	< 1,960		

ELAP Number 10958

Method: EPA 8260B

Data File: V85312.D

Comments: ug / Kg = microgram per Kilogram

Signature: \_\_\_\_\_

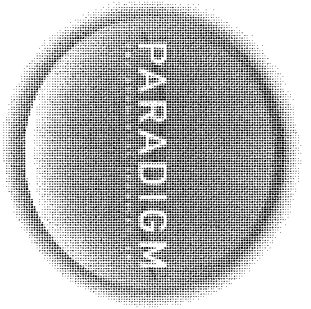
Bruce Hoogesteger: Technical Director

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112070V4.XLS

# CHAIN OF CUSTODY

10



## REPORT TO:

## INVOICE TO:

COMPANY: <b>Stantec</b>	COMPANY: <b>Same</b>	LAB PROJECT #: <b>11-2070</b>	CLIENT PROJECT #: <b>110000696</b>
ADDRESS: <b>61 Commercial St</b>	ADDRESS:	TURNAROUND TIME: (WORKING DAYS)	<b>1 day</b>
CITY: <b>Proctor</b>	CITY:	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5	<b>per quote</b>
STATE: <b>NY</b>	STATE:	OTHER	
ZIP: <b>14614</b>	ZIP:		
PHONE: <b>585-319-0800</b>	PHONE:		
FAX: <b>585-372-1814</b>	FAX:		
ATTN: <b>Mike Stansky, Dealing with</b>	ATTN:		
COMMENTS: <b>EDO required</b>		Quotation # <b>per Ine Dalia 5/25/11</b>	

## REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAIN	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
5/23/11	0832	N	N	5601	1	N		7013
	1025	N	N	82(4-4.8)	1	N	Smelly	7014
	1147	N	N	82(4-9.3)	1	N	Hold	7015
	1332	N	N	86(7-8)	1	N	Smelly	7016
	1555	N	N	84(7.5-8)	1	N	↓	7017
6								
7								
8								
9								
10								

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

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

## Receipt Parameter NELAC Compliance

Container Type:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Comments:		
Preservation:	<input type="checkbox"/> Y	<input type="checkbox"/> N
Comments:		
Holding Time:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Comments:		
Temperature:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Comments:		

Sampled By: <b>Donna</b>	Date/Time: <b>5/23/11 1650</b>	Total Cost:
Relinquished By: <b>Donna</b>	Date/Time: <b>5/23/11 1650</b>	
Received By: <b>Donna</b>	Date/Time: <b>5/23/11 1650</b>	
Received @ Lab By: <b>Elizabeth A Homda</b>	Date/Time: <b>5/23/11 1120</b>	
		P.I.F. <input type="checkbox"/>
		<b>eeEHA 5/24</b>





**PARADIGM**  
ENVIRONMENTAL SERVICES, INC.

## Analytical Report Cover Page

### **Stantec**

For Lab Project # 11-2070R

Issued June 16, 2011

This report contains a total of 6 pages

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**"Z" = See case narrative.**

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**"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.**

**"B" = Method blank contained trace levels of analyte. Refer to included method blank report.**



**PHC Analysis Report for Soils/Solids/Sludges**

**Client:** Stantec

**Client Job Site:** Genesee St

**Lab Project Number:** 11-2070R

**Lab Sample Number:** 7013R

**Client Job Number:** 190500696

**Field Location:** SED1

**Date Sampled:** 05/23/2011

**Field ID Number:** N/A

**Date Received:** 06/10/2011

**Sample Type:** Soil

**Date Analyzed:** 06/14/2011

PHC Classification	Results in ug / Kg
Medium Weight PHC as: Kerosene	64,200
Heavy Weight PHC as: Lube Oil	1,240,000

ELAP Number 10958

Analytical Method: NYSDOH 310.13

Prep Method: EPA 3550C

Comments: PHC = Petroleum Hydrocarbon

ug / Kg = microgram per Kilogram

Sample chromatogram not an exact match to reference chromatogram. Closest match made.

Signature: \_\_\_\_\_

  
Bruce Hoogesteger, Technical Director

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112070P1.XLS



**PHC Analysis Report for Soils/Solids/Sludges**

**Client:** Stantec

**Client Job Site:** Genesee St

**Lab Project Number:** 11-2070R

**Lab Sample Number:** 7014R

**Client Job Number:** 190500696

**Field Location:** B2 (4-4.8)

**Date Sampled:** 05/23/2011

**Field ID Number:** N/A

**Date Received:** 06/10/2011

**Sample Type:** Soil

**Date Analyzed:** 06/14/2011

PHC Classification	Results in ug / Kg
Medium Weight PHC as: Diesel Fuel	1,580,000

ELAP Number 10958

Analytical Method: NYSDOH 310.13

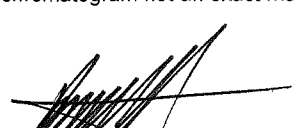
Prep Method: EPA 3550C

Comments: PHC = Petroleum Hydrocarbon

ug / Kg = microgram per Kilogram

Sample chromatogram not an exact match to reference chromatogram. Closest match made.

Signature: \_\_\_\_\_

  
Bruce Hoogesteger: Technical Director

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112070P2.XLS



**PHC Analysis Report for Soils/Solids/Sludges**

**Client:** Stantec

**Client Job Site:** Genesee St

**Lab Project Number:** 11-2070R

**Client Job Number:** 190500696

**Lab Sample Number:** 7016R

**Field Location:** B6 (7-8)

**Date Sampled:** 05/23/2011

**Field ID Number:** N/A

**Date Received:** 06/10/2011

**Sample Type:** Soil

**Date Analyzed:** 06/14/2011

PHC Classification	Results in ug / Kg
Light Weight PHC as: Mineral Spirits	38,400

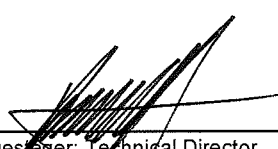
ELAP Number 10958

Analytical Method: NYSDOH 310.13

Prep Method: EPA 3550C

Comments: PHC = Petroleum Hydrocarbon  
ug / Kg = microgram per Kilogram

Signature: \_\_\_\_\_

  
Bruce Hoogesteger: Technical Director

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112070P3.XLS



**PHC Analysis Report for Soils/Solids/Sludges**

**Client:** Stantec

**Client Job Site:** Genesee St

**Lab Project Number:** 11-2070R

**Lab Sample Number:** 7017R

**Client Job Number:** 190500696

**Field Location:** B4 (7.5-8)

**Date Sampled:** 05/23/2011

**Field ID Number:** N/A

**Date Received:** 06/10/2011

**Sample Type:** Soil

**Date Analyzed:** 06/14/2011

PHC Classification	Results in ug / Kg
Light Weight PHC as: Mineral Spirits	228,000
Heavy Weight PHC as: Lube Oil*	14,200

ELAP Number 10958

Analytical Method: NYSDOH 310.13


Prep Method: EPA 3550C

Comments: PHC = Petroleum Hydrocarbon

ug / Kg = microgram per Kilogram

\*Sample chromatogram not an exact match to reference chromatogram. Closest match made.

Signature: \_\_\_\_\_

  
Bruce Hoogesteger: Technical Director

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112070P4.XLS



## REPORT TO:

**INVOICE TO:**

COMPANY:	Startek	COMPANY:	Same	LAB PROJECT #:	11-207016 19800696
ADDRESS:	61 Commercial St	ADDRESS:		CLIENT PROJECT #:	
CITY:	Providence	CITY:		TURNAROUND TIME: (WORKING DAYS)	10 day est
STATE:	RI	STATE:			per quote
ZIP:	01864	ZIP:			
PHONE:	888-319-0500	PHONE:			
FAX:	888-370-1514	FAX:			
ATTN:	Mike Stansky, Doody Ranch	ATTN:			
COMMENTS:	EDD required				
				REQUESTED ANALYSIS	Quotation # per Eric Dabig 5/15/11

REQUESTED ANALYSIS

DATE	TIME	C O M P O S I T E	G R A B	SAMPLE LOCATION/FIELD ID	M A T R I X	C O N T A M I N A T I O N S	REMARKS	PARADIGM LAB SAMPLE NUMBER
5/23/11	0922		A	SGD 1	soil	1		7013R
	1025		A	Ba(4-4.8)	soil	1	simelly	7014R
	1147		A	B1(4-9.3)	soil	1	Hold	7015
	1332		A	B6(7-8)	soil	1	smelly	7016R
	1555		A	B4(7.5-8)	soil	1	↓	7017R
				CPC DB 6/10/11 1050				
				turn P4C 310.1300				
				7013, 7014, 7016, 7017				
				statist ok past hold time				

LAB USE ONLY BELOW THIS LINE

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

### Receipt Parameter

## NELAC Compliance

Container Type:

人

$$\square$$

---

:

Preservation:

11

103

2

1015

Holding Time:

人

2

1

—

Temperature:

人

$$Z$$

—

3

1

Sampled By gmk/rw Date/Time 5/23/11 1650

Total Cost:

Relinquished By Dee Dee Date/Time 5/23/11 1650

Received By Mr. Plaisir Date/Time 5/23/11 1050

P.I.F.

Received By *✓* Date/Time *5/23/11 11:20*  
*Elizabeth A Honick*

Received @ Lab By

Date/Time

Relog: Elizabeth a Honck <sup>EEAH 5/24</sup> 6/10/11 1150 @ 5°C



**PARADIGM**  
ENVIRONMENTAL SERVICES, INC.

## Analytical Report Cover Page

### **Stantec**

For Lab Project # 11-2085  
Issued June 8, 2011  
This report contains a total of 6 pages

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"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 Office: (585) 647-2530 Fax: (585) 647-3311

**LAB REPORT FOR RCRA METALS ANALYSIS IN SOLIDS**

**Client:** Stantec

**Lab Project No.:** 11-2085

**Lab Sample No.:** 7057

**Client Job Site:** 937 Genesee St

**Sample Type:** Soil

**Client Job No.:** 190500696

**Date Sampled:** 05/24/2011

**Field Location:** B3 (6-8)

**Date Received:** 05/24/2011

**Field ID No.:** N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	06/08/2011	SW846 3050/6010	3.78
Barium	06/08/2011	SW846 3050/6010	26.1
Cadmium	06/08/2011	SW846 3050/6010	< 0.499
Chromium	06/08/2011	SW846 3050/6010	5.11
Lead	06/08/2011	SW846 3050/6010	15.2
Mercury	06/03/2011	SW846 7471	< 0.0085
Selenium	06/08/2011	SW846 3050/6010	< 0.997
Silver	06/08/2011	SW846 3050/6010	< 0.997

ELAP ID No.:10958

Comments:

Approved By: \_\_\_\_\_

Bruce Hoogesteger, Technical Director





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

**Client:** Stantec

**Client Job Site:** 937 Genesee St.

**Lab Project Number:** 11-2085

**Client Job Number:** 190500696

**Lab Sample Number:** 7057

**Field Location:** B3 (6-8)

**Date Sampled:** 05/24/2011

**Field ID Number:** N/A

**Date Received:** 05/24/2011

**Sample Type:** Soil

**Date Analyzed:** 06/01/2011

Base / Neutrals	Results in ug / Kg
Acenaphthene	< 312
Acenaphthylene	< 312
Anthracene	< 312
Benzo (a) anthracene	< 312
Benzo (a) pyrene	< 312
Benzo (b) fluoranthene	< 312
Benzo (g,h,i) perylene	< 312
Benzo (k) fluoranthene	< 312
Chrysene	< 312
Dibenz (a,h) anthracene	< 312
Fluoranthene	< 312
Fluorene	< 312
Indeno (1,2,3-cd) pyrene	< 312
Naphthalene	594
Phenanthrene	< 312
Pyrene	< 312

ELAP Number 10958


Analytical Method: EPA 8270C

Data File: S56946.D

Prep Method: EPA 3550C

Comments: ug / Kg = microgram per Kilogram

Signature: \_\_\_\_\_

  
Bruce Hoogesleger, 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.

112085S1.XLS

**Volatile Analysis Report for Soils/Solids/Sludges****Client:** Stantec**Client Job Site:** 937 Genesee St.**Lab Project Number:** 11-2085**Lab Sample Number:** 7057**Client Job Number:** 190500696**Field Location:** B3 (6-8)**Date Sampled:** 05/24/2011**Field ID Number:** N/A**Date Received:** 05/24/2011**Sample Type:** Soil**Date Analyzed:** 06/03/2011

<b>Halocarbons</b>	<b>Results in ug / Kg</b>
Bromodichloromethane	< 114
Bromomethane	< 114
Bromoform	< 284
Carbon Tetrachloride	< 114
Chloroethane	< 114
Chloromethane	< 114
2-Chloroethyl vinyl Ether	< 568
Chloroform	< 114
Dibromochloromethane	< 114
1,1-Dichloroethane	< 114
1,2-Dichloroethane	< 114
1,1-Dichloroethene	< 114
cis-1,2-Dichloroethene	< 114
trans-1,2-Dichloroethene	< 114
1,2-Dichloropropane	< 114
cis-1,3-Dichloropropene	< 114
trans-1,3-Dichloropropene	< 114
Methylene chloride	< 284
1,1,2,2-Tetrachloroethane	< 114
Tetrachloroethene	< 114
1,1,1-Trichloroethane	< 114
1,1,2-Trichloroethane	< 114
Trichloroethene	< 114
Trichlorofluoromethane	< 114
Vinyl chloride	< 114

<b>Aromatics</b>	<b>Results in ug / Kg</b>
Benzene	< 114
Chlorobenzene	< 114
Ethylbenzene	1,520
Toluene	< 114
m,p-Xylene	1,940
o-Xylene	< 114
Styrene	< 284
1,2-Dichlorobenzene	< 114
1,3-Dichlorobenzene	< 114
1,4-Dichlorobenzene	< 114

<b>Ketones</b>	<b>Results in ug / Kg</b>
Acetone	< 568
2-Butanone	< 568
2-Hexanone	< 284
4-Methyl-2-pentanone	< 284

<b>Miscellaneous</b>	<b>Results in ug / Kg</b>
Carbon disulfide	< 114
Vinyl acetate	< 284

ELAP Number 10958

Method: EPA 8260B

Data File: V85270.D

Comments: ug / Kg = microgram per Kilogram

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

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112085V1.XLS

**Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)**Client: **Stantec**

Client Job Site: 937 Genesee St.

Lab Project Number: 11-2085

Client Job Number: 190500696

Lab Sample Number: 7057

Field Location: B3 (6-8)

Date Sampled: 05/24/2011

Field ID Number: N/A

Date Received: 05/24/2011

Sample Type: Soil

Date Analyzed: 06/03/2011

Compound	Results in ug / Kg	Compound	Results in ug / Kg
n-Butylbenzene	1,020	1,2,4-Trimethylbenzene	9,530
sec-Butylbenzene	518	1,3,5-Trimethylbenzene	2,340
tert-Butylbenzene	< 114		
n-Propylbenzene	1,190	<b>Miscellaneous</b>	
Isopropylbenzene	718	Methyl tert-butyl Ether	< 114
p-Isopropyltoluene	764		
Naphthalene	1,050		

ELAP Number 10958

Method: EPA 8260B

Data File: V85270.D

Comments: ug / Kg = microgram per Kilogram

Signature: \_\_\_\_\_

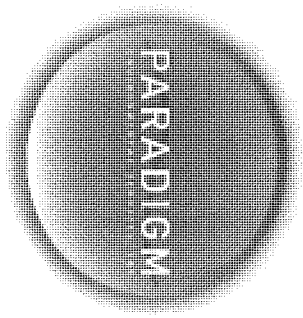
Bruce Hoogesteger, Technical Director

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112085V1.XLS

# CHAIN OF CUSTODY

9



PARADIGM

REPORT TO:

INVOICE TO:

PROJECT NAME/SITE NAME:

937 Gausee St

COMMENTS: EDD required

COMPANY:	State	COMPANY:	Same	LAB PROJECT #:	11-2085	CLIENT PROJECT #:	190500696
ADDRESS:	61 Connecticut St	ADDRESS:		TURNAROUND TIME: (WORKING DAYS)	CPE 10 days to be		
CITY:	Manhasset	CITY:		STATE:	NY	ZIP:	14604
PHONE:	585-319-0800	PHONE:		FAX:	585-372-1814		
ATTN:	Dorothy Bawlsky, NW Stensky	ATTN:		1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5 <input checked="" type="checkbox"/>			

## REQUESTED ANALYSIS

Quotation #

05648

DATE	TIME	COMPOSITE	GRA	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	REQUESTED ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 5/24/11	1610		X	B3(6-8)	SOI	1	X	Hold	7057
2 5/24/11	1110		X	B5(6-8)	SOI	1	X	Hold	7058
3 5/24/11	1130		X	B8(8.7-9.9)	SOI	1		Hold	7059
4 5/24/11	1310		X	B7(4.9-6)	SOI	1		Hold	7060
5									
6									
7									
8									
9									
10									

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

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

Receipt Parameter

NELAC Compliance

Container Type: Y ☒ N ☐

Preservation: A1/A Y ☐ N ☐

Holding Time: Y ☒ N ☐

Temperature: 10°Ciced - Y ☒ N ☐

Comments: pres. begun in field

Sampled By: [Signature] Date/Time: 5/24/11 1550

Relinquished By: [Signature] Date/Time: 5/24/11 1550

Received By: [Signature] Date/Time: 5/24/11 1620

Received @ Lab By: [Signature] Date/Time: [Blank]

Total Cost:

[Blank box for Total Cost]

P.L.F.

[Blank box for P.L.F.]



**PARADIGM**  
ENVIRONMENTAL SERVICES, INC.

## Analytical Report Cover Page

### **Stantec**

For Lab Project # 11-2085R

Issued June 16, 2011

This report contains a total of 3 pages

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**"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.**

**"B" = Method blank contained trace levels of analyte. Refer to included method blank report.**



**PHC Analysis Report for Soils/Solids/Sludges**

**Client:** Stantec

**Client Job Site:** 937 Genesee St

**Lab Project Number:** 11-2085R

**Client Job Number:** 190500696

**Lab Sample Number:** 7057R

**Field Location:** B3 (6-8)

**Date Sampled:** 05/24/2011

**Field ID Number:** N/A

**Date Received:** 06/10/2011

**Sample Type:** Soil

**Date Analyzed:** 06/14/2011

PHC Classification	Results in ug / Kg
Medium Weight PHC as: Kerosene	616,000
Heavy Weight PHC as: Lube Oil	1,180,000

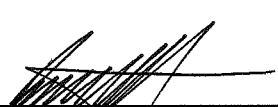
ELAP Number 10958

Analytical Method: NYSDOH 310.13

Prep Method: EPA 3550C

Comments: PHC = Petroleum Hydrocarbon  
ug / Kg = microgram per Kilogram

Signature: \_\_\_\_\_

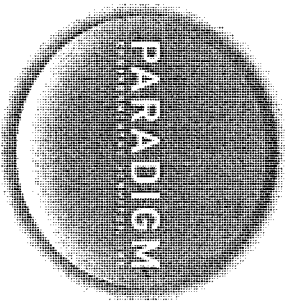
  
Bruce Hoogesteger: Technical Director

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112085P1.XLS

# CHAIN OF CUSTODY

3



REPORT TO:

INVOICE TO:

PROJECT NAME/SITE NAME:

937 Gruesee St

COMPANY:	State	COMPANY:	Same	LAB PROJECT #:	11-20852190500696	CLIENT PROJECT #:	
ADDRESS:	61 Commercial St	ADDRESS:		TURNAROUND TIME: (WORKING DAYS)	11-20852190500696	STD	
CITY:	Rochester	CITY:	NY	STATE:	NY	OTHER	
PHONE:	585-319-0500	PHONE:	585-373-1914	FAX:			
ATTN:	Dorothy, Branch-Backley, Mike Stansky	ATTN:					
COMMENTS:	EOD required						

## REQUESTED ANALYSIS

DATE	TIME	COMMENTS	G R A B	SAMPLE LOCATION/FIELD ID	M A T R I X	C O N T A I N E R S	REMARKS	PARADIGM LAB SAMPLE NUMBER
1/24/11	1610		X	B3(6-8)	501	X	TCL+STARS VOL	7057
2/24/11	1110		X	B5(6-8)	501	X	8220	7058
3/24/11	1130		X	B8(8.7-9.9)	501	1	RCRAMER	7059
4/24/11	1310		X	B7(7.9-6)	501	1	CRCDBB5/251	7060
5							Quoted 1.350	
6							Hold to preserve	
7								
8								
9								
10								

LAB USE ONLY BELOW THIS LINE\*\*

Sample Condition: Per NELAC/EIAP 2101241/242/243/244

Receipt Parameter NELAC Compliance

Container Type: Y ☒ N ☐

Comments: Preservation: Y ☐ N ☐

Comments: Holding Time: Y ☒ N ☐

Comments: Temperature: 10°C ☒ Y ☐ N ☐

Comments: pres. begun in field

Sampled By: [Signature] Date/Time: 5/24/11 1550

Relinquished By: [Signature] Date/Time: 5/24/11 1550

Received By: [Signature] Date/Time: 5/24/11 1620

Received @ Lab By: [Signature] Date/Time: 6/10/11 1140 @ 5°C

Total Cost:

P.L.F.

Quotation #

058480



## Analytical Report Cover Page

### **Stantec**

For Lab Project # 11-2234

Issued June 17, 2011

This report contains a total of 14 pages

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

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**"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.**

**"B" = Method blank contained trace levels of analyte. Refer to included method blank report.**



**179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311**

**Client:** Stantec

**Lab Project No.:** 11-2234

**Client Job Site:** 937 Genesee St.

**Sample Type:** Water  
**Method:** SW846:3005/6010,7470

**Client Job No.:** 190500696

**Date(s) Sampled:** 06/03/2011  
**Date Received:** 06/03/2011  
**Date Analyzed:** 06/09-16/2011

[illegible]

Comments: The laboratory control spike duplicate was outside QC limits for Ag and Cd.

Approved By: Bruce Hoogesteger, Technical Director

## Semi -Volatile STARS Analysis Report for Non-potable Water

Client: **Stantec**

Client Job Site: 937 Genesee St.

Lab Project Number: 11-2234

Lab Sample Number: 7481

Client Job Number: 190500696

Field Location: MW-7-GW

Date Sampled: 06/03/2011

Field ID Number: N/A

Date Received: 06/03/2011

Sample Type: Water

Date Analyzed: 06/09/2011

Base / Neutrals	Results in ug / L
Acenaphthene	< 10.0
Acenaphthylene	< 10.0
Anthracene	< 10.0
Benzo (a) anthracene	< 10.0
Benzo (a) pyrene	< 10.0
Benzo (b) fluoranthene	< 10.0
Benzo (g,h,i) perylene	< 10.0
Benzo (k) fluoranthene	< 10.0
Chrysene	< 10.0
Dibenz (a,h) anthracene	< 10.0
Fluoranthene	< 10.0
Fluorene	< 10.0
Indeno (1,2,3-cd) pyrene	< 10.0
Naphthalene	< 10.0
Phenanthrene	< 10.0
Pyrene	< 10.0

ELAP Number 10958

Analytical Method: EPA 8270C

Data File: S57122.D

Prep Method: EPA 3510C

Comments: 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.

112234S1.XLS

**Semi -Volatile STARS Analysis Report for Non-potable Water**Client: **Stantec**

Client Job Site: 937 Genesee St.

Lab Project Number: 11-2234

Lab Sample Number: 7482

Client Job Number: 190500696

Field Location: MW-3-GW

Date Sampled: 06/03/2011

Field ID Number: N/A

Date Received: 06/03/2011

Sample Type: Water

Date Analyzed: 06/09/2011

Base / Neutrals	Results in ug / L
Acenaphthene	< 10.0
Acenaphthylene	< 10.0
Anthracene	< 10.0
Benzo (a) anthracene	< 10.0
Benzo (a) pyrene	< 10.0
Benzo (b) fluoranthene	< 10.0
Benzo (g,h,i) perylene	< 10.0
Benzo (k) fluoranthene	< 10.0
Chrysene	< 10.0
Dibenz (a,h) anthracene	< 10.0
Fluoranthene	< 10.0
Fluorene	< 10.0
Indeno (1,2,3-cd) pyrene	< 10.0
Naphthalene	< 10.0
Phenanthrene	< 10.0
Pyrene	< 10.0

ELAP Number 10958

Analytical Method: EPA 8270C

Data File: S57123.D

Prep Method: EPA 3510C

Comments: ug / L = microgram per Liter

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

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112234S2.XLS



**Semi -Volatile STARS Analysis Report for Non-potable Water**

Client: **Stantec**

Client Job Site: 937 Genesee St.

Lab Project Number: 11-2234

Lab Sample Number: 7483

Client Job Number: 190500696

Field Location: MW-6-GW

Date Sampled: 06/03/2011

Field ID Number: N/A

Date Received: 06/03/2011

Sample Type: Water

Date Analyzed: 06/09/2011

Base / Neutrals	Results in ug / L
Acenaphthene	< 10.0
Acenaphthylene	< 10.0
Anthracene	< 10.0
Benzo (a) anthracene	< 10.0
Benzo (a) pyrene	< 10.0
Benzo (b) fluoranthene	< 10.0
Benzo (g,h,i) perylene	< 10.0
Benzo (k) fluoranthene	< 10.0
Chrysene	< 10.0
Dibenz (a,h) anthracene	< 10.0
Fluoranthene	< 10.0
Fluorene	< 10.0
Indeno (1,2,3-cd) pyrene	< 10.0
Naphthalene	< 10.0
Phenanthrene	< 10.0
Pyrene	< 10.0

ELAP Number 10958

Analytical Method: EPA 8270C

Data File: S57124.D

Prep Method: EPA 3510C

Comments: 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.

112234S3.XLS

**Volatile Analysis Report for Non-potable Water****Client:** Stantec**Client Job Site:** 937 Genesee St.**Lab Project Number:** 11-2234**Client Job Number:** 190500696**Lab Sample Number:** 7480**Field Location:** Trip Blank**Date Sampled:** 06/03/2011**Field ID Number:** N/A**Date Received:** 06/03/2011**Sample Type:** Water**Date Analyzed:** 06/15/2011

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

<b>Aromatics</b>	<b>Results in ug / L</b>
Benzene	< 0.700
Chlorobenzene	< 2.00
Ethylbenzene	< 2.00
Toluene	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00
Styrene	< 5.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00

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

<b>Miscellaneous</b>	<b>Results in ug / L</b>
Carbon disulfide	< 2.00
Vinyl acetate	< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: V85549.D

Comments: 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.

112234V1.XLS

**Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)****Client:** Stantec**Client Job Site:** 937 Genesee St.**Lab Project Number:** 11-2234**Client Job Number:** 190500696**Lab Sample Number:** 7480**Field Location:** Trip Blank**Date Sampled:** 06/03/2011**Field ID Number:** N/A**Date Received:** 06/03/2011**Sample Type:** Water**Date Analyzed:** 06/15/2011

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

ELAP Number 10958

Method: EPA 8260B

Data File: V85549.D

Comments: ug / L = microgram per Liter

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

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112234V1.XLS

**Volatile Analysis Report for Non-potable Water****Client:** Stantec**Client Job Site:** 937 Genesee St.**Lab Project Number:** 11-2234**Client Job Number:** 190500696**Lab Sample Number:** 7481**Field Location:** MW-7-GW**Date Sampled:** 06/03/2011**Field ID Number:** N/A**Date Received:** 06/03/2011**Sample Type:** Water**Date Analyzed:** 06/15/2011

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

<b>Aromatics</b>	<b>Results in ug / L</b>
Benzene	< 0.700
Chlorobenzene	< 2.00
Ethylbenzene	< 2.00
Toluene	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00
Styrene	< 5.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00

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

<b>Miscellaneous</b>	<b>Results in ug / L</b>
Carbon disulfide	< 2.00
Vinyl acetate	< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: V85550.D

Comments: 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.

112234V2.XLS



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

**Client:** Stantec

**Client Job Site:** 937 Genesee St.

**Lab Project Number:** 11-2234

**Client Job Number:** 190500696

**Lab Sample Number:** 7481

**Field Location:** MW-7-GW

**Date Sampled:** 06/03/2011

**Field ID Number:** N/A

**Date Received:** 06/03/2011

**Sample Type:** Water

**Date Analyzed:** 06/15/2011

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

ELAP Number 10958

Method: EPA 8260B

Data File: V85550.D

Comments: 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.

112234V2.XLS



**Volatile Analysis Report for Non-potable Water****Client:** Stantec**Client Job Site:** 937 Genesee St.**Lab Project Number:** 11-2234**Client Job Number:** 190500696**Lab Sample Number:** 7482**Field Location:** MW-3-GW**Date Sampled:** 06/03/2011**Field ID Number:** N/A**Date Received:** 06/03/2011**Sample Type:** Water**Date Analyzed:** 06/15/2011

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

<b>Aromatics</b>	<b>Results in ug / L</b>
Benzene	6.43
Chlorobenzene	< 2.00
Ethylbenzene	54.8
Toluene	7.01
m,p-Xylene	86.8
o-Xylene	7.99
Styrene	< 5.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00

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

<b>Miscellaneous</b>	<b>Results in ug / L</b>
Carbon disulfide	< 2.00
Vinyl acetate	< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: V85581.D

Comments: ug / L = microgram per Liter

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

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112234V3.XLS



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

**Client:** Stantec

**Client Job Site:** 937 Genesee St.

**Lab Project Number:** 11-2234

**Client Job Number:** 190500696

**Lab Sample Number:** 7482

**Field Location:** MW-3-GW

**Date Sampled:** 06/03/2011

**Field ID Number:** N/A

**Date Received:** 06/03/2011

**Sample Type:** Water

**Date Analyzed:** 06/15/2011

Compound	Results in ug / L	Compound	Results in ug / L
n-Butylbenzene	< 2.00	1,2,4-Trimethylbenzene	60.7
sec-Butylbenzene	3.78	1,3,5-Trimethylbenzene	55.7
tert-Butylbenzene	< 2.00		
n-Propylbenzene	15.5	<b>Miscellaneous</b>	
Isopropylbenzene	18.5	Methyl tert-butyl Ether	< 2.00
p-Isopropyltoluene	4.85		
Naphthalene	7.97		

ELAP Number 10958

Method: EPA 8260B

Data File: V85581.D

Comments: ug / L = microgram per Liter

Signature: \_\_\_\_\_

Bruce Hoogesteger: Technical Director

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112234V3.XLS

**Volatile Analysis Report for Non-potable Water****Client:** **Stantec****Client Job Site:** 937 Genesee St.**Lab Project Number:** 11-2234**Client Job Number:** 190500696**Lab Sample Number:** 7483**Field Location:** MW-6-GW**Date Sampled:** 06/03/2011**Field ID Number:** N/A**Date Received:** 06/03/2011**Sample Type:** Water**Date Analyzed:** 06/15/2011

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

<b>Aromatics</b>	<b>Results in ug / L</b>
Benzene	0.703
Chlorobenzene	< 2.00
Ethylbenzene	< 2.00
Toluene	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00
Styrene	< 5.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00

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

<b>Miscellaneous</b>	<b>Results in ug / L</b>
Carbon disulfide	< 2.00
Vinyl acetate	< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: V85552.D

Comments: 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.

112234V4.XLS

**Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)****Client:** Stantec**Client Job Site:** 937 Genesee St.**Lab Project Number:** 11-2234**Client Job Number:** 190500696**Lab Sample Number:** 7483**Field Location:** MW-6-GW**Date Sampled:** 06/03/2011**Field ID Number:** N/A**Date Received:** 06/03/2011**Sample Type:** Water**Date Analyzed:** 06/15/2011

Compound	Results in ug / L	Compound	Results in ug / L
n-Butylbenzene	2.28	1,2,4-Trimethylbenzene	14.5
sec-Butylbenzene	20.9	1,3,5-Trimethylbenzene	< 2.00
tert-Butylbenzene	4.03		
n-Propylbenzene	11.5	<b>Miscellaneous</b>	
Isopropylbenzene	6.37	Methyl tert-butyl Ether	< 2.00
p-Isopropyltoluene	5.42		
Naphthalene	< 5.00		

ELAP Number 10958

Method: EPA 8260B

Data File: V85552.D

Comments: ug / L = microgram per Liter

Signature: \_\_\_\_\_

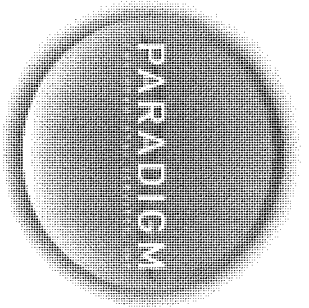
Bruce Hoogesteger, Technical Director

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112234V4.XLS

# CHAIN OF CUSTODY

14



REPORT TO:

INVOICE TO:

COMPANY: <b>Starline</b>	COMPANY: <b>Same</b>	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: <b>61 Commercial St</b>	ADDRESS:	11-2234	19050606
CITY: <b>Rochester</b>	CITY:	TURNAROUND TIME: (WORKING DAYS)	
STATE: <b>NY</b>	STATE:		
ZIP: <b>14614</b>	ZIP:		
PHONE: <b>585-319-0800</b>	PHONE:		
FAX: <b>585-373-1814</b>	FAX:		
ATTN: <b>Mike Starks, Deputy head clerk</b>	ATTN:		
COMMENTS: <b>EDS required</b>	REQUESTED ANALYSIS	Quotation # <b>MS 091411A</b>	

DATE	TIME	C O M P O S I T E	G R A B	SAMPLE LOCATION/FIELD ID	M A T R I X	C O N T A I N E R S	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 6/3/11	0800		X	Typ blank	weir	X		7480
2 6/3/11	0940		X	MLW-7-6W	GW	Y		7481
3 6/3/11	1047		X	MLW-3-6W	GW	Y		7482
4 6/3/11	1340		X	MLW-6-6W	GW	Y		7483
5								
6								
7								
8								
9								
10								

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

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

Receipt Parameter	NELAC Compliance
Container Type:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	
Preservation:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	
Holding Time:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	
Temperature:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	

Sampled By: <i>[Signature]</i>	Date/Time: <b>6/3/11 1500</b>	Total Cost:
Relinquished By: <i>[Signature]</i>	Date/Time: <b>6/3/11 1500</b>	
Received By: <i>[Signature]</i>	Date/Time: <b>6/3/11 1520</b>	P.L.F.
Received @ Lab By:	Date/Time:	



## Analytical Report Cover Page

### **Stantec**

For Lab Project # 11-2234R

Issued July 1, 2011

This report contains a total of 4 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:

**"<" = analyzed for but not detected at or above the reporting limit.**

**"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.**



### PHC Analysis Report for Non-potable Water

**Client:** Stantec

**Client Job Site:** 937 Genesee St.

**Lab Project Number:** 11-2234R

**Lab Sample Number:** 7482R

**Client Job Number:** 190500696

**Field Location:** MW-3-GW

**Date Sampled:** 06/03/2011

**Field ID Number:** N/A

**Date Received:** 06/20/2011

**Sample Type:** Water

**Date Analyzed:** 06/24/2011

PHC Classification	Results in ug / L
Medium Weight PHC as: Kerosene	696
Medium Weight PHC as: Diesel Fuel*	346

ELAP Number 10958

Analytical Method: NYSDOH 310.13

Prep Method: EPA 3510C

Comments: PHC = Petroleum Hydrocarbon

ug / L = microgram per Liter

\*Sample chromatogram not an exact match to reference chromatogram. Closest match made.

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.

112234H1.XLS



### PHC Analysis Report for Non-potable Water

Client: **Stantec**

Client Job Site: 937 Genesee St.

Lab Project Number: 11-2234R

Lab Sample Number: 7483R

Client Job Number: 190500696

Field Location: MW-6-GW

Date Sampled: 06/03/2011

Field ID Number: N/A

Date Received: 06/20/2011

Sample Type: Water

Date Analyzed: 06/24/2011

PHC Classification	Results in ug / L
Medium Weight PHC as: Kerosene	598


ELAP Number 10958

Analytical Method: NYSDOH 310.13

Prep Method: EPA 3510C

Comments: PHC = Petroleum Hydrocarbon  
ug / L = microgram per Liter

Signature: \_\_\_\_\_

  
Bruce Hoogesteger: Technical Director

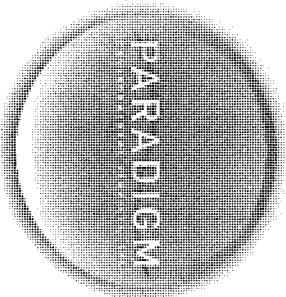
This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

112234H2.XLS



# CHAIN OF CUSTODY

4



REPORT TO:

INVOICE TO:

COMPANY: <b>StarTel</b>	COMPANY: <b>Same</b>	LAB PROJECT #: <b>11-2234R</b>	CLIENT PROJECT #: <b>19500656</b>
ADDRESS: <b>61 Commercial St</b>	ADDRESS:	TURNAROUND TIME: (WORKING DAYS)	
CITY: <b>Rochester</b>	STATE: <b>NY</b>	ZIP: <b>14614</b>	
PHONE: <b>585-319-0800</b>	FAX: <b>585-373-1114</b>	PHONE:	FAX:
ATTN: <b>Mike Stankis, Dorothy Buchberger</b>	ATTN:		
COMMENTS: <b>ESD required</b>	REQUESTED ANALYSIS: <b>TOC + STARS VOL, STARS SVDG, RCM - 60</b>	Quotation # <b>115041114</b>	

DATE	TIME	COMPOSITE	GRA B	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 6/3/11	0800		X	Top blank	Wet	X		7480
2 6/3/11	0940		Y	MLW-7-GW	GW	Y		7481
3 6/3/11	1047		Y	MLW-3-GW	GW	Y		7482
4 6/3/11	1340		X	MLW-6-GW	GW	Y		7483
5								
6								
7								
8								
9								
10								

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

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

Receipt Parameter NELAC Compliance

Comments:	Container Type:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	Preservation:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	Holding Time:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Comments:	Temperature:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>

Received By: [Signature] Date/Time: 6/3/11 1500 P.I.F. ☐

Relinquished By: [Signature] Date/Time: 6/3/11 1500

Received @ Lab By: Elizabeth A Honch Date/Time: 6/20/11 1135

Relog: Elizabeth A Honch Date/Time: 6/20/11 1135

HT, Temp N/A b/c  
analyst will use \*  
extract.