

**PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**SUNNY PIEDMONT CLEANERS  
4364 PIEDMONT AVENUE  
OAKLAND, CA 94611**

**NOVA PROJECT NO. F09-0836**

**JUNE 15, 2009**

**PREPARED FOR:  
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## 1.0 INTRODUCTION

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### 1.1 Authorization

In accordance with the written authorization received from Ms. Kristen Key with Summit Bank, Nova Consulting Group, Inc. (Nova) conducted a Phase II Environmental Site Assessment (ESA) of Sunny Piedmont Cleaners located at 4364 Piedmont Avenue, Oakland, California (Site). A Site Location Map is included as Figure 1.

### 1.2 Background

Nova completed a Phase I Environmental Site Assessment (ESA) for the Site. The ESA identified the following recognized environmental conditions:

- Dry cleaning operations using tetrachloroethylene and petroleum based cleaners have been conducted at the Site since 1984, a period of approximately 25 years. Dry cleaning chemicals, including tetrachloroethylene, are toxic to the environment and often take a variety of routes when they affect subsurface conditions. Based on the length of time that the dry cleaner has operated on Site in the same tenant space, the potential exists for impacts to the Site and further evaluation was found to be warranted.

### 1.3 Objective

The objective of this Phase II ESA was to evaluate the shallow soils at the Site for the presence of contamination associated with the on Site dry cleaning operations. Based on this objective, Nova completed the following scope of services.

### 1.4 Scope of Services

The environmental services that Nova provided for this project included:

- Completion of five soil borings (labeled GP-1, GP-2, HAB-1, HAB-2 and HAB-3);
- Collection of soil samples on a continuous basis, classification of the soil samples, and soil screening for the presence of unusual odors and/or staining, including the presence of organic vapors using a photoionization detector (PID) equipped with an 11.7 eV lamp;
- Collection and submittal of soil samples from the borings for laboratory chemical analysis of total petroleum hydrocarbons as mineral spirits (TPH) via EPA method OA-2 and volatile organic compounds (VOCs) via EPA method 8260; and,
- Preparation of a written report summarizing the results of the assessment.

## 2.0 METHODS AND PROCEDURES

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### 2.1 Soil Boring Locations

Nova completed five soil borings (labeled GP-1, GP-2, HAB-1, HAB-2 and HAB-3) at the Site on June 9, 2009. Soil boring GP-1 was completed near front entrance of the dry cleaner. Soil Boring GP-2 was completed to the southeast of the dry cleaner. Hand auger borings HAB-1 and HAB-2 were completed inside the dry cleaner behind the dry cleaning machines. Hand auger boring HAB-3 was completed in a storage closet just outside the dry cleaner. The storage closet was used to store the chemicals used by the cleaners. A map depicting the soil boring locations is included as Figure 2.

### 2.2 Soil Boring Installation Procedures

The exterior soil borings were completed using a truck mounted AMS Power Probe Hydraulic push probe. A Geoprobe® dual tube sampler was used to collect the soil samples from the borings at continuous four-foot intervals. The dual tube sampler consists of a 1.5-inch outside diameter, 48-inch long nickel-plated alloy-steel sampling tube that is continuously filled with soil as it is pushed and/or hammered to the termination depth of the borings (20 feet below land surface [bls]). The termination depth of the exterior borings corresponds with the dual tube sampler refusal depth.

Hand Auger borings HAB-1, HAB-2 and HAB-3 were completed using a manually advanced nominal 2.5-inch diameter stainless steel bucket auger. Soil samples were collected at one-foot intervals to the auger refusal depth of four feet bls.

An environmental geologist recorded a physical description of the soils encountered at each boring location on a field-boring log.

### 2.3 Field Screening

The Nova environmental geologist also screened the soil samples collected during the completion of the soil borings for indications of contamination. The soil samples were evaluated for the presence of unusual odors and staining. Additionally, the soil samples were screened for the presence of organic vapors using a Mini Rae photoionization detector (PID). The PID was equipped with an 11.7 eV lamp and was calibrated to an isobutylene standard prior to being used at the Site. The soil samples were screened utilizing the headspace field analysis technique.

The headspace technique consists of half-filling a quart sized zip-lock bag with a soil sample and quickly sealing the bag. Headspace development proceeds for at least 10 minutes. The bag is shaken vigorously for 15 seconds, at both the beginning and the end of the headspace development period. After headspace development, the bag is opened slightly and the PID probe is inserted to one-half the headspace depth. The highest reading observed on the PID is then recorded.

## 2.4 Laboratory Chemical Analyses

Soil samples were collected from GP-1, GP-2, HAB-1, HAB-2 and HAB-3 for laboratory chemical analysis. The soil samples were collected from areas of elevated PID readings, when encountered, or from the base of the boreholes.

The soil samples were placed in laboratory-supplied containers, stored in a cooler, and transported to Environmental Science Corporation located in Mt. Juliet, Tennessee using chain-of-custody procedures. Environmental Science Corporation is certified to analyze samples collected in the State of California. The soil samples collected from the interior of the dry cleaner were chemically analyzed for the presence and concentration of TPH as mineral spirits and VOCs. The soil samples collected from the exterior of the dry cleaner were chemically analyzed for VOCs.

## 3.0 RESULTS

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### 3.1 Geology and Site Conditions

Soil boring logs with descriptions of the encountered materials and water level information are contained in Appendix A. The depths that are shown as changes may be transitional, and the depths of the transitions likely vary horizontally.

In general, the soil encountered at the Site consisted of approximately one foot of fill underlain by clay, silt and gravel to the termination depth of the borings. Groundwater was not encountered in any of the borings.

### 3.2 Field Screening

Field screening of the soil samples collected from GP-1, GP-2, HAB-1, HAB-2 and HAB-3 did not detect elevated concentrations of organic vapors when screened with a PID. In addition, no unusual odors or staining was observed in the soil samples collected from the borings completed at the Site.

### 3.3 Chemical Analyses

Chemical analysis of the soil samples collected from GP-2 did not detect VOC compounds greater than or equal to the laboratory method detection limits. Chemical analysis of the soil samples collected from HAB-1, HAB-2 and HAB-3 did not detect TPH compounds at concentrations greater than or equal to the laboratory method detection limits. Chemical analysis of the soil samples collected from GP-1, HAB-1, HAB-2 and HAB-3 did detect concentrations of several VOC compounds including tetrachloroethene. The concentration of tetrachloroethene (11 parts-per-million (ppm)) detected at HAB-2 exceeds the Region 9 environmental protection agency (EPA) residential and industrial preliminary remediation goals. The concentration also exceeds the California Water Quality Control Board (RWQCB) Environmental Screening Level of 0.95 ppm for commercial operations. A summary of the VOC compounds detected in the soil samples compared to the Region 9 EPA and RWQCB standards is provided in Table 1. The complete laboratory analysis report is attached as Appendix B.

**TABLE 1**  
**SUMMARY OF SOIL CHEMICAL ANALYSIS**  
**(CONCENTRATIONS IN MG/KG)**

Compound	GP-1	HAB-1	HAB-2	HAB-3	Region 9 EPA Residential PRGs	Region 9 EPA Industrial PRGs	RWQCB Commercial ESL**
Tetrachloroethene	0.0042	0.041	<b>11</b>	0.016	0.57	2.7	0.95
Acetone	ND	.062	ND	ND	64,000	640,000	0.5
MEK	ND	.0075	0.29	ND	28,000	190,000	13
Trichloroethene	ND	.0020	ND	ND	2.8	14	4.1

**Note:** mg/kg = parts per million  
 ND = Not detected above laboratory detection limits.  
**BOLD** = Exceeds cleanup level.  
 EPA PRG = Environmental Protection Agency Preliminary Remediation Goal.  
 \*\* = Regional Water Quality Control Board Environmental Screening Levels (ESLs), Shallow Soils (<3 m bls), with groundwater not a current or potential source of drinking water.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

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The Phase II ESA conducted by Nova detected evidence of a dry cleaning solvent release to soil beneath the Site. Although no organic vapors were detected in the soil samples with the PID, and no solvent-like odors or staining were observed, chemical analysis of the soil samples collected from borings GP-1, HAB-1, HAB-2 and HAB-3 detected several dry cleaning related compounds including: tetrachloroethene, and trichloroethene.

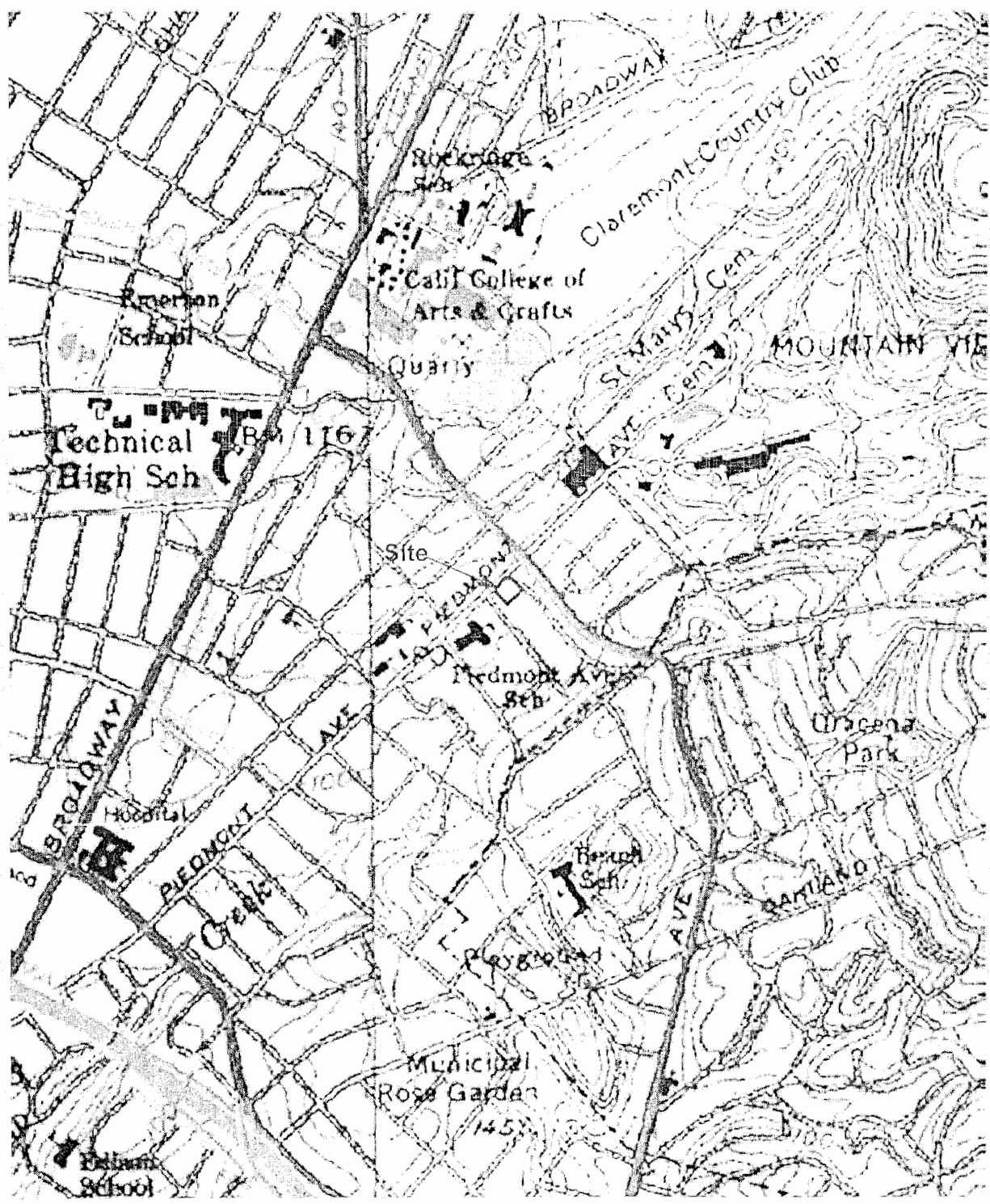
The concentrations of tetrachloroethene detected in the soil sample collected from HAB-2 exceeds the Region 9 EPA preliminary remediation goals for residential areas and industrial areas. The concentration also exceeds the Regional Water Quality Control Board (RWQCB) standard for commercial operations.

Based on this, Nova recommends that the release be reported to the RWQCB and the report submitted to the RWQCB for review. Additional investigation to evaluate the potential for any groundwater, soil and / or vapor impacts at the Site may also be required.



**FIGURE 1**

**SITE LOCATION MAP**



Site Location Map  
 Sunny Piedmont Cleaners  
 4364 Piedmont Avenue  
 Oakland, California



F09-0836

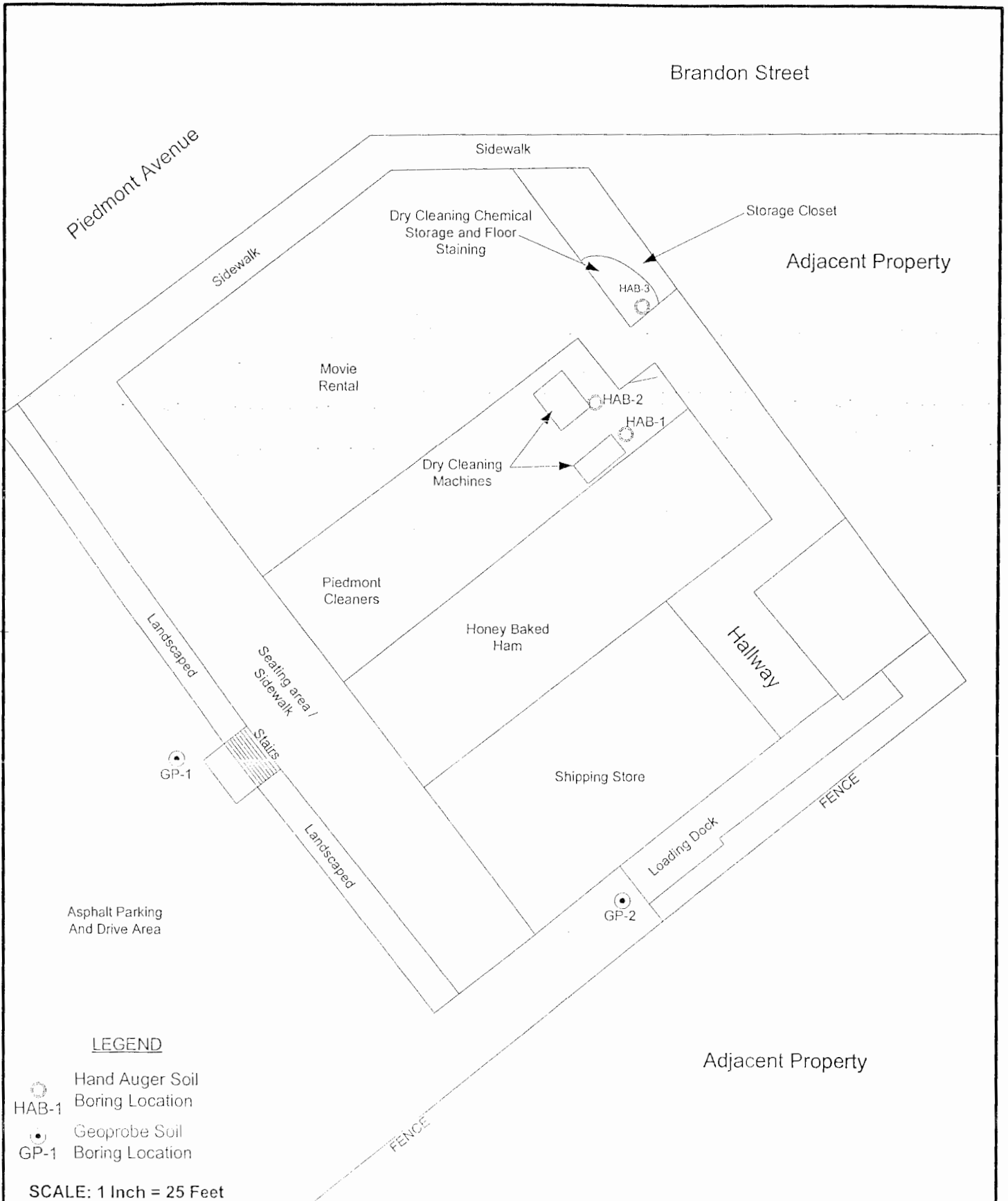


June 2009

Figure 1

**FIGURE 2**

**SOIL BORING LOCATIONS MAP**



**LEGEND**

- Hand Auger Soil Boring Location
- Geoprobe Soil Boring Location

SCALE: 1 Inch = 25 Feet

<p>Soil Boring Locations Map          Sunny Piedmont Cleaners          4364 Piedmont Avenue          Oakland, California</p>	 F09-0836	 NOVA CONSULTING	<p>June 2009</p> <hr/> <p>Figure 2</p>
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**APPENDIX A**

**SOIL BORING LOGS**



# LOG OF BORING GP-1

(Page 1 of 1)

Sunny Piedmont Cleaners  
 4364 Piedmont Avenue  
 Oakland, CA 94611  
 Project # F09-0836

Date Started : 6/8/09  
 Drilling Company : RSI Drilling  
 Hole Diameter : 2 Inches  
 Drilling Method : Direct Push  
 Sampling Method : Geoprobe Dual Tub

Weather : Partly Cloudy - 70 Deg. F.  
 Northing Coord. :  
 Easting Coord. :  
 Survey By :  
 Logged By : EWH

Depth in Feet	Lab Sample	GRAPHIC	USCS	PID (ppm)	DESCRIPTION	Water Level	REMARKS
0					Asphalt		
1					Clay with Silt, tan, moist, fine Gravel, no odors or staining.		
2			ND				
3			CL				
4			ND				
5							
6			ND		Clay with Silt, reddish brown, very hard, some fine Gravel, friable. No odors or staining.		
7							
8			ND				
9							
10			ND				
11							
12			ND				
13			CL				
14			ND				
15							
16			ND				
17							
18			ND				
19							
20	(20 Feet)		ND		Sampler Refusal		



# LOG OF BORING GP-2

(Page 1 of 1)

Sunny Piedmont Cleaners  
 4364 Piedmont Avenue  
 Oakland, CA 94611  
 Project # F09-0836

Date Started : 6/8/09  
 Drilling Company : RSI Drilling  
 Hole Diameter : 2 Inches  
 Drilling Method : Direct Push  
 Sampling Method : Geoprobe Dual Tub  
 Weather : Partly Cloudy - 70 Deg. F.  
 Northing Coord. :  
 Easting Coord. :  
 Survey By :  
 Logged By : EWH

Depth in Feet	Lab Sample	GRAPHIC	USCS	PID (ppm)	DESCRIPTION	Water Level	REMARKS
0					Concrete		
1					Clay with Silt, tan, moist, fine Gravel, no odors or staining.		
2				ND			
3			CL				
4				ND			
5							
6				ND			
7			CL		Clay with Silt, some fine Gravel, brown to reddish brown, moist, no odors or staining.		
8				ND			
9					Clay with Silt, reddish brown, very hard, some fine Gravel, friable. No odors or staining.		
10				ND			
11							
12				ND			
13							
14			CL				
15				ND			
16				ND			
17				ND			
18				ND			
19				ND			
20	(20 Feet)			ND	Sampler Refusal		



# LOG OF BORING HAB-1

(Page 1 of 1)

Sunny Piedmont Cleaners  
 4364 Piedmont Avenue  
 Oakland, CA 94611

Project # F09-0836

Date Started : 6/8/09  
 Drilling Company : RSI Drilling  
 Hole Diameter : 3 Inches  
 Drilling Method : Hand Auger  
 Sampling Method : Hand Auger

Weather : Partly Cloudy - 70 Deg. F.  
 Northing Coord. :  
 Easting Coord. :  
 Survey By :  
 Logged By : EWH

Depth in Feet	Lab Sample	GRAPHIC	USCS	PID (ppm)	DESCRIPTION	Water Level	REMARKS
0					Concrete		
1			GW	ND	Cobbles, fill, Sand		
2				ND	Clay with Silt, brown, some fine Gravel, no odors or staining.		
3			CL	ND			
4				ND			
					Sampler Refusal		

06-15-2009 V:\2009\F09-0836\reports\Piedmont DO NOT DELETE\HAB-1.bor





# LOG OF BORING HAB-2

(Page 1 of 1)

Sunny Piedmont Cleaners  
4364 Piedmont Avenue  
Oakland, CA 94611

Project # F09-0836

Date Started : 6/8/09  
Drilling Company : RSI Drilling  
Hole Diameter : 3 Inches  
Drilling Method : Hand Auger  
Sampling Method : Hand Auger

Weather : Partly Cloudy - 70 Deg. F.  
Northing Coord. :  
Easting Coord. :  
Survey By :  
Logged By : EWH

Depth in Feet	Lab Sample	GRAPHIC	USCS	PID (ppm)	DESCRIPTION	Water Level	REMARKS
0					Concrete		
1			GW		Cobbles, fill, Sand		
1			ND		Clay with Silt, dark gray, moist, some fine Gravel, no odors or apparent staining.		
2			CL	ND			
3			CL	ND			
4	(4 Feet)		CL	ND	Clay with silt, brown and gray, moist. No odors or staining.		
4					Sampler Refusal		



# LOG OF BORING HAB-3

(Page 1 of 1)

Sunny Piedmont Cleaners  
4364 Piedmont Avenue  
Oakland, CA 94611

Project # F09-0836

Date Started : 6/8/09  
Drilling Company : RSI Drilling  
Hole Diameter : 3 Inches  
Drilling Method : Hand Auger  
Sampling Method : Hand Auger

Weather : Partly Cloudy ~ 70 Deg. F.  
Northing Coord. :  
Easting Coord. :  
Survey By :  
Logged By : EWH

Depth in Feet	Lab Sample	GRAPHIC	USCS	PID (ppm)	DESCRIPTION	Water Level	REMARKS
0					Concrete		
1			SW	ND	Sand fill, brown, fine grained, no odors or staining.		
			GR	ND	Cobbles, fill		
2				ND	Clay with silt, brown and gray, moist. No odors or staining.		
3			CL	ND			
4	(4 Feet)			ND			
4					Sampler Refusal		

**APPENDIX B**

**LABORATORY CHEMICAL  
ANALYSIS REPORT**



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Eric Halpaus  
Nova Consulting Group  
1107 Hazeltine Blvd, Ste 400

Chaska, MN 55318

Report Summary

Sunday June 14, 2009

Report Number: L406924

Samples Received: 06/10/09

Client Project: F09-1836

Description: Sunny Piedmont Cleaners, Oakland, CA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

*John Hawkins*  
John Hawkins, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
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REPORT OF ANALYSIS

Eric Halpaus  
Nova Consulting Group  
1107 Hazeltine Blvd, Ste 400  
Chaska, MN 55318

June 14, 2009

Date Received : June 10, 2009  
Description : Sunny Piedmont Cleaners, Oakland, CA

ESC Sample # : L406924-01

Sample ID : GP-1 20FT

Site ID : OAKLAND, CA

Collected By : Eric Halpaus  
Collection Date : 06/09/09 12:00

Project # : F09-1836

Parameter	Dry Result	MDL	RDL	Units	Q	Method	Date	Dil.
Total Solids	85.0			%		2540G	06/12/09	1
Volatile Organics								
Acetone	U	0.017	0.059	mg/kg		8260B	06/11/09	1
Acrylonitrile	U	0.0020	0.012	mg/kg		8260B	06/11/09	1
Benzene	U	0.00032	0.0012	mg/kg		8260B	06/11/09	1
Bromobenzene	U	0.00022	0.0012	mg/kg		8260B	06/11/09	1
Bromodichloromethane	U	0.00039	0.0012	mg/kg		8260B	06/11/09	1
Bromoform	U	0.00058	0.0012	mg/kg		8260B	06/11/09	1
Bromomethane	U	0.0013	0.0059	mg/kg		8260B	06/11/09	1
n-Butylbenzene	U	0.00024	0.0012	mg/kg		8260B	06/11/09	1
sec-Butylbenzene	U	0.00020	0.0012	mg/kg		8260B	06/11/09	1
tert-Butylbenzene	U	0.00019	0.0012	mg/kg		8260B	06/11/09	1
Carbon tetrachloride	U	0.00032	0.0012	mg/kg		8260B	06/11/09	1
Chlorobenzene	U	0.00025	0.0012	mg/kg		8260B	06/11/09	1
Chlorodibromomethane	U	0.00023	0.0012	mg/kg		8260B	06/11/09	1
Chloroethane	U	0.00059	0.0059	mg/kg		8260B	06/11/09	1
2-Chloroethyl vinyl ether	U	0.0032	0.059	mg/kg		8260B	06/11/09	1
Chloroform	U	0.00041	0.0059	mg/kg		8260B	06/11/09	1
Chloromethane	U	0.00056	0.0012	mg/kg		8260B	06/11/09	1
2-Chlorotoluene	U	0.00023	0.0012	mg/kg		8260B	06/11/09	1
4-Chlorotoluene	U	0.00032	0.0012	mg/kg		8260B	06/11/09	1
1,2-Dibromo-3-Chloropropane	U	0.0012	0.0059	mg/kg		8260B	06/11/09	1
1,2-Dibromoethane	U	0.00032	0.0012	mg/kg		8260B	06/11/09	1
Dibromomethane	U	0.00032	0.0012	mg/kg		8260B	06/11/09	1
1,2-Dichlorobenzene	U	0.00024	0.0012	mg/kg		8260B	06/11/09	1
1,3-Dichlorobenzene	U	0.00038	0.0012	mg/kg		8260B	06/11/09	1
1,4-Dichlorobenzene	U	0.00022	0.0012	mg/kg		8260B	06/11/09	1
Dichlorodifluoromethane	U	0.00032	0.0059	mg/kg		8260B	06/11/09	1
1,1-Dichloroethane	U	0.00026	0.0012	mg/kg		8260B	06/11/09	1
1,2-Dichloroethane	U	0.00053	0.0012	mg/kg		8260B	06/11/09	1
1,1-Dichloroethene	U	0.00074	0.0012	mg/kg		8260B	06/11/09	1
cis-1,2-Dichloroethene	U	0.00072	0.0012	mg/kg		8260B	06/11/09	1
trans-1,2-Dichloroethene	U	0.00068	0.0012	mg/kg		8260B	06/11/09	1
1,2-Dichloropropane	U	0.00075	0.0012	mg/kg		8260B	06/11/09	1
1,1-Dichloropropene	U	0.00034	0.0012	mg/kg		8260B	06/11/09	1
1,3-Dichloropropane	U	0.00028	0.0012	mg/kg		8260B	06/11/09	1
cis-1,3-Dichloropropene	U	0.00026	0.0012	mg/kg		8260B	06/11/09	1
trans-1,3-Dichloropropene	U	0.00036	0.0012	mg/kg		8260B	06/11/09	1
2,2-Dichloropropane	U	0.00055	0.0012	mg/kg		8260B	06/11/09	1
Di-isopropyl ether	U	0.00030	0.0012	mg/kg		8260B	06/11/09	1
Ethylbenzene	U	0.00023	0.0012	mg/kg		8260B	06/11/09	1
Hexachloro-1,3-butadiene	U	0.00036	0.0012	mg/kg		8260B	06/11/09	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = MDL = RDL = RDL

Note:

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Report No. 09-1836-01-02



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REPORT OF ANALYSIS

June 14, 2009

Eric Halpaus  
Nova Consulting Group  
1107 Hazeltine Blvd, Ste 400  
Chaska, MN 55318

Date Received : June 10, 2009  
Description : Sunny Piedmont Cleaners, Oakland, CA  
Sample ID : GP-1 20FT  
Collected By : Eric Halpous  
Collection Date : 06/09/09 12:00

ESC Sample # : L406924-01

Site ID : OAKLAND, CA

Project # : F09-1836

Parameter	Dry Result	MDL	RDL	Units	Q	Method	Date	Dil.
Isopropylbenzene	U	0.00021	0.0012	mg/kg		8260B	06/11/09	1
p-Isopropyltoluene	U	0.00017	0.0012	mg/kg		8260B	06/11/09	1
2-Butanone (MEK)	U	0.0027	0.012	mg/kg		8260B	06/11/09	1
Methylene Chloride	U	0.00060	0.0059	mg/kg		8260B	06/11/09	1
4-Methyl-2-pentanone (MIBK)	U	0.0014	0.012	mg/kg		8260B	06/11/09	1
Methyl tert-butyl ether	U	0.00028	0.0012	mg/kg		8260B	06/11/09	1
Naphthalene	U	0.00040	0.0059	mg/kg		8260B	06/11/09	1
n-Propylbenzene	U	0.00020	0.0012	mg/kg		8260B	06/11/09	1
Styrene	U	0.00020	0.0012	mg/kg		8260B	06/11/09	1
1,1,1,2-Tetrachloroethane	U	0.00020	0.0012	mg/kg		8260B	06/11/09	1
1,1,2,2-Tetrachloroethane	U	0.00033	0.0012	mg/kg		8260B	06/11/09	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.00025	0.0012	mg/kg		8260B	06/11/09	1
Tetrachloroethene	0.0042	0.00023	0.0012	mg/kg		8260B	06/11/09	1
Toluene	U	0.0012	0.0059	mg/kg		8260B	06/11/09	1
1,2,3-Trichlorobenzene	U	0.00023	0.0012	mg/kg		8260B	06/11/09	1
1,2,4-Trichlorobenzene	U	0.00025	0.0012	mg/kg		8260B	06/11/09	1
1,1,1-Trichloroethane	U	0.00052	0.0012	mg/kg		8260B	06/11/09	1
1,1,2-Trichloroethane	U	0.00046	0.0012	mg/kg		8260B	06/11/09	1
Trichloroethene	U	0.00034	0.0012	mg/kg		8260B	06/11/09	1
Trichlorofluoromethane	U	0.00027	0.0059	mg/kg		8260B	06/11/09	1
1,2,3-Trichloropropane	U	0.00068	0.0012	mg/kg		8260B	06/11/09	1
1,2,4-Trimethylbenzene	U	0.00017	0.0012	mg/kg		8260B	06/11/09	1
1,2,3-Trimethylbenzene	U	0.00020	0.0012	mg/kg		8260B	06/11/09	1
1,3,5-Trimethylbenzene	U	0.00022	0.0012	mg/kg		8260B	06/11/09	1
Vinyl chloride	U	0.00029	0.0012	mg/kg		8260B	06/11/09	1
Xylenes, Total	U	0.00046	0.0035	mg/kg		8260B	06/11/09	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	06/11/09	1
Dibromofluoromethane	110.			% Rec.		8260B	06/11/09	1
a,a,a-Trifluorotoluene	99.4			% Rec.		8260B	06/11/09	1
4-Bromofluorobenzene	101.			% Rec.		8260B	06/11/09	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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REPORT OF ANALYSIS

Eric Halpaus  
Nova Consulting Group  
1107 Hazeltine Blvd, Ste 400  
Chaska, MN 55318

June 14, 2009

Date Received : June 10, 2009  
Description : Sunny Piedmont Cleaners, Oakland, CA  
Sample ID : GP-2 20FT  
Collected By : Eric Halpaus  
Collection Date : 06/09/09 13:00

ESC Sample # : L406924-02

Site ID : OAKLAND, CA

Project # : F09-1836

Parameter	Dry Result	MDL	RDL	Units	Q	Method	Date	Dil.
Total Solids	82.0			%		2540G	06/12/09	1
<b>Volatile Organics</b>								
Acetone	U	0.017	0.061	mg/kg		8260B	06/12/09	1
Acrylonitrile	U	0.0020	0.012	mg/kg		8260B	06/12/09	1
Benzene	U	0.00032	0.0012	mg/kg		8260B	06/12/09	1
Bromobenzene	U	0.00022	0.0012	mg/kg		8260B	06/12/09	1
Bromodichloromethane	U	0.00039	0.0012	mg/kg		8260B	06/12/09	1
Bromoform	U	0.00058	0.0012	mg/kg		8260B	06/12/09	1
Bromomethane	U	0.0013	0.0061	mg/kg		8260B	06/12/09	1
n-Butylbenzene	U	0.00024	0.0012	mg/kg		8260B	06/12/09	1
sec-Butylbenzene	U	0.00020	0.0012	mg/kg		8260B	06/12/09	1
tert-Butylbenzene	U	0.00019	0.0012	mg/kg		8260B	06/12/09	1
Carbon tetrachloride	U	0.00032	0.0012	mg/kg		8260B	06/12/09	1
Chlorobenzene	U	0.00025	0.0012	mg/kg		8260B	06/12/09	1
Chlorodibromomethane	U	0.00023	0.0012	mg/kg		8260B	06/12/09	1
Chloroethane	U	0.00059	0.0061	mg/kg		8260B	06/12/09	1
2-Chloroethyl vinyl ether	U	0.0032	0.061	mg/kg		8260B	06/12/09	1
Chloroform	U	0.00041	0.0061	mg/kg		8260B	06/12/09	1
Chloromethane	U	0.00056	0.0012	mg/kg		8260B	06/12/09	1
2-Chlorotoluene	U	0.00023	0.0012	mg/kg		8260B	06/12/09	1
4-Chlorotoluene	U	0.00032	0.0012	mg/kg		8260B	06/12/09	1
1,2-Dibromo-3-Chloropropane	U	0.0012	0.0061	mg/kg		8260B	06/12/09	1
1,2-Dibromoethane	U	0.00032	0.0012	mg/kg		8260B	06/12/09	1
Dibromomethane	U	0.00032	0.0012	mg/kg		8260B	06/12/09	1
1,2-Dichlorobenzene	U	0.00024	0.0012	mg/kg		8260B	06/12/09	1
1,3-Dichlorobenzene	U	0.00038	0.0012	mg/kg		8260B	06/12/09	1
1,4-Dichlorobenzene	U	0.00022	0.0012	mg/kg		8260B	06/12/09	1
Dichlorodifluoromethane	U	0.00032	0.0061	mg/kg		8260B	06/12/09	1
1,1-Dichloroethane	U	0.00026	0.0012	mg/kg		8260B	06/12/09	1
1,2-Dichloroethane	U	0.00053	0.0012	mg/kg		8260B	06/12/09	1
1,1-Dichloroethene	U	0.00074	0.0012	mg/kg		8260B	06/12/09	1
cis-1,2-Dichloroethene	U	0.00072	0.0012	mg/kg		8260B	06/12/09	1
trans-1,2-Dichloroethene	U	0.00068	0.0012	mg/kg		8260B	06/12/09	1
1,2-Dichloropropane	U	0.00075	0.0012	mg/kg		8260B	06/12/09	1
1,1-Dichloropropene	U	0.00034	0.0012	mg/kg		8260B	06/12/09	1
1,3-Dichloropropane	U	0.00028	0.0012	mg/kg		8260B	06/12/09	1
cis-1,3-Dichloropropene	U	0.00026	0.0012	mg/kg		8260B	06/12/09	1
trans-1,3-Dichloropropene	U	0.00036	0.0012	mg/kg		8260B	06/12/09	1
2,2-Dichloropropane	U	0.00055	0.0012	mg/kg		8260B	06/12/09	1
Di-isopropyl ether	U	0.00030	0.0012	mg/kg		8260B	06/12/09	1
Ethylbenzene	U	0.00023	0.0012	mg/kg		8260B	06/12/09	1
Hexachloro-1,3-butadiene	U	0.00036	0.0012	mg/kg		8260B	06/12/09	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

Eric Halpaus  
Nova Consulting Group  
1107 Hazeltine Blvd, Ste 400  
Chaska, MN 55318

June 14, 2009

Date Received : June 10, 2009  
Description : Sunny Piedmont Cleaners, Oakland, CA  
Sample ID : HAB-1 4FT  
Collected By : Eric Halpaus  
Collection Date : 06/09/09 14:00

ESC Sample # : L406924-03

Site ID : OAKLAND, CA

Project # : F09-1836

Parameter	Dry Result	MDL	RDL	Units	Q	Method	Date	Dil.
Isopropylbenzene	U	0.00021	0.0014	mg/kg		8260B	06/12/09	1
p-Isopropyltoluene	U	0.00017	0.0014	mg/kg		8260B	06/12/09	1
2-Butanone (MEK)	0.0075	0.0027	0.014	mg/kg	J	8260B	06/12/09	1
Methylene Chloride	U	0.00060	0.0068	mg/kg		8260B	06/12/09	1
4-Methyl-2-pentanone (MIBK)	U	0.0014	0.014	mg/kg		8260B	06/12/09	1
Methyl tert-butyl ether	U	0.00028	0.0014	mg/kg		8260B	06/12/09	1
Naphthalene	U	0.00040	0.0068	mg/kg		8260B	06/12/09	1
n-Propylbenzene	U	0.00020	0.0014	mg/kg		8260B	06/12/09	1
Styrene	U	0.00020	0.0014	mg/kg		8260B	06/12/09	1
1,1,1,2-Tetrachloroethane	U	0.00020	0.0014	mg/kg		8260B	06/12/09	1
1,1,2,2-Tetrachloroethane	U	0.00033	0.0014	mg/kg		8260B	06/12/09	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.00025	0.0014	mg/kg		8260B	06/12/09	1
Tetrachloroethene	0.041	0.00023	0.0014	mg/kg		8260B	06/12/09	1
Toluene	U	0.0012	0.0068	mg/kg		8260B	06/12/09	1
1,2,3-Trichlorobenzene	U	0.00023	0.0014	mg/kg		8260B	06/12/09	1
1,2,4-Trichlorobenzene	U	0.00025	0.0014	mg/kg		8260B	06/12/09	1
1,1,1-Trichloroethane	U	0.00052	0.0014	mg/kg		8260B	06/12/09	1
1,1,2-Trichloroethane	U	0.00046	0.0014	mg/kg		8260B	06/12/09	1
Trichloroethene	0.0020	0.00034	0.0014	mg/kg		8260B	06/12/09	1
Trichlorofluoromethane	U	0.00027	0.0068	mg/kg		8260B	06/12/09	1
1,2,3-Trichloropropane	U	0.00068	0.0014	mg/kg		8260B	06/12/09	1
1,2,4-Trimethylbenzene	U	0.00017	0.0014	mg/kg		8260B	06/12/09	1
1,2,3-Trimethylbenzene	U	0.00020	0.0014	mg/kg		8260B	06/12/09	1
1,3,5-Trimethylbenzene	U	0.00022	0.0014	mg/kg		8260B	06/12/09	1
Vinyl chloride	U	0.00029	0.0014	mg/kg		8260B	06/12/09	1
Xylenes, Total	U	0.00046	0.0041	mg/kg		8260B	06/12/09	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	06/12/09	1
Dibromofluoromethane	106.			% Rec.		8260B	06/12/09	1
a,a,a-Trifluorotoluene	101.			% Rec.		8260B	06/12/09	1
4-Bromofluorobenzene	98.0			% Rec.		8260B	06/12/09	1
Mineral Spirits	U	1.3	5.4	mg/kg		OA2	06/12/09	1
Kerosene (C9-C16)	U	1.3	5.4	mg/kg		OA2	06/12/09	1
Diesel (C7-C26)	U	1.3	5.4	mg/kg		OA2	06/12/09	1
#6 Fuel Oil (C10-C32)	U	1.3	5.4	mg/kg		OA2	06/12/09	1
Hydraulic Fluid (C12-C33)	U	1.3	5.4	mg/kg		OA2	06/12/09	1
Motor Oil (C16-C40)	U	3.3	14.	mg/kg		OA2	06/12/09	1
Surrogate recovery(%)								
o-Terphenyl	106.			% Rec.		OA2	06/12/09	1

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REPORT OF ANALYSIS

Eric Halpaus  
Nova Consulting Group  
1107 Hazeltine Blvd, Ste 400  
Chaska, MN 55318

June 14, 2009

Date Received : June 10, 2009  
Description : Sunny Piedmont Cleaners, Oakland, CA  
Sample ID : HAB-2 4FT  
Collected By : Eric Halpaus  
Collection Date : 06/09/09 14:45

ESC Sample # : L406924-04

Site ID : OAKLAND, CA

Project # : F09-1836

Parameter	Dry Result	MDL	RDL	Units	Q	Method	Date	Dil.
Total Solids	85.6			%		2540G	06/12/09	1
Volatile Organics								
Acetone	U	1.2	4.3	mg/kg		8260B	06/12/09	73
Acrylonitrile	U	0.15	0.85	mg/kg		8260B	06/12/09	73
Benzene	U	0.024	0.085	mg/kg		8260B	06/12/09	73
Bromobenzene	U	0.016	0.085	mg/kg		8260B	06/12/09	73
Bromodichloromethane	U	0.028	0.085	mg/kg		8260B	06/12/09	73
Bromoform	U	0.042	0.085	mg/kg		8260B	06/12/09	73
Bromomethane	U	0.094	0.43	mg/kg		8260B	06/12/09	73
n-Butylbenzene	U	0.018	0.085	mg/kg		8260B	06/12/09	73
sec-Butylbenzene	U	0.015	0.085	mg/kg		8260B	06/12/09	73
tert-Butylbenzene	U	0.014	0.085	mg/kg		8260B	06/12/09	73
Carbon tetrachloride	U	0.023	0.085	mg/kg		8260B	06/12/09	73
Chlorobenzene	U	0.018	0.085	mg/kg		8260B	06/12/09	73
Chlorodibromomethane	U	0.017	0.085	mg/kg		8260B	06/12/09	73
Chloroethane	U	0.043	0.43	mg/kg		8260B	06/12/09	73
2-Chloroethyl vinyl ether	U	0.24	4.3	mg/kg		8260B	06/12/09	73
Chloroform	U	0.030	0.43	mg/kg		8260B	06/12/09	73
Chloromethane	U	0.041	0.085	mg/kg		8260B	06/12/09	73
2-Chlorotoluene	U	0.017	0.085	mg/kg		8260B	06/12/09	73
4-Chlorotoluene	U	0.023	0.085	mg/kg		8260B	06/12/09	73
1,2-Dibromo-3-Chloropropane	U	0.084	0.43	mg/kg		8260B	06/12/09	73
1,2-Dibromoethane	U	0.023	0.085	mg/kg		8260B	06/12/09	73
Dibromomethane	U	0.024	0.085	mg/kg		8260B	06/12/09	73
1,2-Dichlorobenzene	U	0.017	0.085	mg/kg		8260B	06/12/09	73
1,3-Dichlorobenzene	U	0.028	0.085	mg/kg		8260B	06/12/09	73
1,4-Dichlorobenzene	U	0.016	0.085	mg/kg		8260B	06/12/09	73
Dichlorodifluoromethane	U	0.023	0.43	mg/kg		8260B	06/12/09	73
1,1-Dichloroethane	U	0.019	0.085	mg/kg		8260B	06/12/09	73
1,2-Dichloroethane	U	0.039	0.085	mg/kg		8260B	06/12/09	73
1,1-Dichloroethene	U	0.054	0.085	mg/kg		8260B	06/12/09	73
cis-1,2-Dichloroethene	U	0.053	0.085	mg/kg		8260B	06/12/09	73
trans-1,2-Dichloroethene	U	0.049	0.085	mg/kg		8260B	06/12/09	73
1,2-Dichloropropane	U	0.055	0.085	mg/kg		8260B	06/12/09	73
1,1-Dichloropropene	U	0.025	0.085	mg/kg		8260B	06/12/09	73
1,3-Dichloropropene	U	0.021	0.085	mg/kg		8260B	06/12/09	73
cis-1,3-Dichloropropene	U	0.019	0.085	mg/kg		8260B	06/12/09	73
trans-1,3-Dichloropropene	U	0.026	0.085	mg/kg		8260B	06/12/09	73
2,2-Dichloropropane	U	0.040	0.085	mg/kg		8260B	06/12/09	73
Di-isopropyl ether	U	0.022	0.085	mg/kg		8260B	06/12/09	73
Ethylbenzene	U	0.016	0.085	mg/kg		8260B	06/12/09	73
Hexachloro-1,3-butadiene	U	0.026	0.085	mg/kg		8260B	06/12/09	73

Results listed are dry weight basis.

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L406924-04 (V8260) - Non-target compounds too high to run at a lower dilution.



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REPORT OF ANALYSIS

Eric Halpaus  
Nova Consulting Group  
1107 Hazeltine Blvd, Ste 400  
Chaska, MN 55318

June 14, 2009

Date Received : June 10, 2009  
Description : Sunny Piedmont Cleaners, Oakland, CA

ESC Sample # : L406924-04

Sample ID : HAB-2 4FT

Site ID : OAKLAND, CA

Collected By : Eric Halpaus  
Collection Date : 06/09/09 14:45

Project # : F09-1836

Parameter	Dry Result	MDL	RDL	Units	Q	Method	Date	Dil.
Isopropylbenzene	U	0.015	0.085	mg/kg		8260B	06/12/09	73
p-Isopropyltoluene	U	0.013	0.085	mg/kg		8260B	06/12/09	73
2-Butanone (MEK)	0.29	0.20	0.85	mg/kg	J	8260B	06/12/09	73
Methylene Chloride	U	0.044	0.43	mg/kg		8260B	06/12/09	73
4-Methyl-2-pentanone (MIBK)	U	0.10	0.85	mg/kg		8260B	06/12/09	73
Methyl tert-butyl ether	U	0.020	0.085	mg/kg		8260B	06/12/09	73
Naphthalene	U	0.029	0.43	mg/kg		8260B	06/12/09	73
n-Propylbenzene	U	0.014	0.085	mg/kg		8260B	06/12/09	73
Styrene	U	0.015	0.085	mg/kg		8260B	06/12/09	73
1,1,1,2-Tetrachloroethane	U	0.014	0.085	mg/kg		8260B	06/12/09	73
1,1,2,2-Tetrachloroethane	U	0.024	0.085	mg/kg		8260B	06/12/09	73
1,1,2-Trichloro-1,2,2-trifluoro	U	0.018	0.085	mg/kg		8260B	06/12/09	73
Tetrachloroethene	11.	0.017	0.085	mg/kg		8260B	06/12/09	73
Toluene	U	0.089	0.43	mg/kg		8260B	06/12/09	73
1,2,3-Trichlorobenzene	U	0.017	0.085	mg/kg		8260B	06/12/09	73
1,2,4-Trichlorobenzene	U	0.018	0.085	mg/kg		8260B	06/12/09	73
1,1,1-Trichloroethane	U	0.038	0.085	mg/kg		8260B	06/12/09	73
1,1,2-Trichloroethane	U	0.033	0.085	mg/kg		8260B	06/12/09	73
Trichloroethene	U	0.024	0.085	mg/kg		8260B	06/12/09	73
Trichlorofluoromethane	U	0.020	0.43	mg/kg		8260B	06/12/09	73
1,2,3-Trichloropropane	U	0.049	0.085	mg/kg		8260B	06/12/09	73
1,2,4-Trimethylbenzene	U	0.012	0.085	mg/kg		8260B	06/12/09	73
1,2,3-Trimethylbenzene	U	0.014	0.085	mg/kg		8260B	06/12/09	73
1,3,5-Trimethylbenzene	U	0.016	0.085	mg/kg		8260B	06/12/09	73
Vinyl chloride	U	0.021	0.085	mg/kg		8260B	06/12/09	73
Xylenes, Total	U	0.034	0.26	mg/kg		8260B	06/12/09	73
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	06/12/09	73
Dibromofluoromethane	104.			% Rec.		8260B	06/12/09	73
a,a,a-Trifluorotoluene	101.			% Rec.		8260B	06/12/09	73
4-Bromofluorobenzene	102.			% Rec.		8260B	06/12/09	73
Mineral Spirits	U	1.3	4.7	mg/kg		OA2	06/12/09	1
Kerosene (C9-C16)	U	1.3	4.7	mg/kg		OA2	06/12/09	1
Diesel (C7-C26)	U	1.3	4.7	mg/kg		OA2	06/12/09	1
#6 Fuel Oil (C10-C32)	U	1.3	4.7	mg/kg		OA2	06/12/09	1
Hydraulic Fluid (C12-C33)	U	1.3	4.7	mg/kg		OA2	06/12/09	1
Motor Oil (C16-C40)	U	3.3	12.	mg/kg		OA2	06/12/09	1
Surrogate recovery(%)								
o-Terphenyl	95.1			% Rec.		OA2	06/12/09	1

Results listed are dry weight basis.

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L406924-04 (V8260) - Non-target compounds too high to run at a lower dilution.



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REPORT OF ANALYSIS

Eric Halpaus  
Nova Consulting Group  
1107 Hazeltine Blvd, Ste 400  
Chaska, MN 55318

June 14, 2009

Date Received : June 10, 2009  
Description : Sunny Piedmont Cleaners, Oakland, CA  
Sample ID : HAB-3 4FT  
Collected By : Eric Halpaus  
Collection Date : 06/09/09 17:00

ESC Sample # : L406924-05

Site ID : OAKLAND, CA

Project # : F09-1836

Parameter	Dry Result	MDL	RDL	Units	Q	Method	Date	Dil.
Total Solids	83.3			%		2540G	06/12/09	1
Volatile Organics								
Acetone	U	0.017	0.060	mg/kg		8260B	06/12/09	1
Acrylonitrile	U	0.0020	0.012	mg/kg		8260B	06/12/09	1
Benzene	U	0.00032	0.0012	mg/kg		8260B	06/12/09	1
Bromobenzene	U	0.00022	0.0012	mg/kg		8260B	06/12/09	1
Bromodichloromethane	U	0.00039	0.0012	mg/kg		8260B	06/12/09	1
Bromoform	U	0.00058	0.0012	mg/kg		8260B	06/12/09	1
Bromomethane	U	0.0013	0.0060	mg/kg		8260B	06/12/09	1
n-Butylbenzene	U	0.00024	0.0012	mg/kg		8260B	06/12/09	1
sec-Butylbenzene	U	0.00020	0.0012	mg/kg		8260B	06/12/09	1
tert-Butylbenzene	U	0.00019	0.0012	mg/kg		8260B	06/12/09	1
Carbon tetrachloride	U	0.00032	0.0012	mg/kg		8260B	06/12/09	1
Chlorobenzene	U	0.00025	0.0012	mg/kg		8260B	06/12/09	1
Chlorodibromomethane	U	0.00023	0.0012	mg/kg		8260B	06/12/09	1
Chloroethane	U	0.00059	0.0060	mg/kg		8260B	06/12/09	1
2-Chloroethyl vinyl ether	U	0.0032	0.060	mg/kg		8260B	06/12/09	1
Chloroform	U	0.00041	0.0060	mg/kg		8260B	06/12/09	1
Chloromethane	U	0.00056	0.0012	mg/kg		8260B	06/12/09	1
2-Chlorotoluene	U	0.00023	0.0012	mg/kg		8260B	06/12/09	1
4-Chlorotoluene	U	0.00032	0.0012	mg/kg		8260B	06/12/09	1
1,2-Dibromo-3-Chloropropane	U	0.0012	0.0060	mg/kg		8260B	06/12/09	1
1,2-Dibromoethane	U	0.00032	0.0012	mg/kg		8260B	06/12/09	1
Dibromomethane	U	0.00032	0.0012	mg/kg		8260B	06/12/09	1
1,2-Dichlorobenzene	U	0.00024	0.0012	mg/kg		8260B	06/12/09	1
1,3-Dichlorobenzene	U	0.00038	0.0012	mg/kg		8260B	06/12/09	1
1,4-Dichlorobenzene	U	0.00022	0.0012	mg/kg		8260B	06/12/09	1
Dichlorodifluoromethane	U	0.00032	0.0060	mg/kg		8260B	06/12/09	1
1,1-Dichloroethane	U	0.00026	0.0012	mg/kg		8260B	06/12/09	1
1,2-Dichloroethane	U	0.00053	0.0012	mg/kg		8260B	06/12/09	1
1,1-Dichloroethene	U	0.00074	0.0012	mg/kg		8260B	06/12/09	1
cis-1,2-Dichloroethene	U	0.00072	0.0012	mg/kg		8260B	06/12/09	1
trans-1,2-Dichloroethene	U	0.00068	0.0012	mg/kg		8260B	06/12/09	1
1,2-Dichloropropane	U	0.00075	0.0012	mg/kg		8260B	06/12/09	1
1,1-Dichloropropene	U	0.00034	0.0012	mg/kg		8260B	06/12/09	1
1,3-Dichloropropane	U	0.00028	0.0012	mg/kg		8260B	06/12/09	1
cis-1,3-Dichloropropene	U	0.00026	0.0012	mg/kg		8260B	06/12/09	1
trans-1,3-Dichloropropene	U	0.00036	0.0012	mg/kg		8260B	06/12/09	1
2,2-Dichloropropane	U	0.00055	0.0012	mg/kg		8260B	06/12/09	1
Di-isopropyl ether	U	0.00030	0.0012	mg/kg		8260B	06/12/09	1
Ethylbenzene	U	0.00023	0.0012	mg/kg		8260B	06/12/09	1
Hexachloro-1,3-butadiene	U	0.00036	0.0012	mg/kg		8260B	06/12/09	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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The reported analytical results relate only to the sample submitted

Reported: 06/14/09 18:47 Printed: 06/14/09 18:48



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Est. 1970

REPORT OF ANALYSIS

June 14, 2009

Eric Halpaus  
Nova Consulting Group  
1107 Hazeltine Blvd, Ste 400  
Chaska, MN 55318

Date Received : June 10, 2009  
Description : Sunny Piedmont Cleaners, Oakland, CA  
Sample ID : HAB-3 4FT  
Collected By : Eric Halpaus  
Collection Date : 06/09/09 17:00

ESC Sample # : L406924-05

Site ID : OAKLAND, CA

Project # : F09-1836

Parameter	Dry Result	MDL	RDL	Units	Q	Method	Date	Dil.
Isopropylbenzene	U	0.00021	0.0012	mg/kg		8260B	06/12/09	1
p-Isopropyltoluene	U	0.00017	0.0012	mg/kg		8260B	06/12/09	1
2-Butanone (MEK)	U	0.0027	0.012	mg/kg		8260B	06/12/09	1
Methylene Chloride	U	0.00060	0.0060	mg/kg		8260B	06/12/09	1
4-Methyl-2-pentanone (MIBK)	U	0.0014	0.012	mg/kg		8260B	06/12/09	1
Methyl tert-butyl ether	U	0.00028	0.0012	mg/kg		8260B	06/12/09	1
Naphthalene	U	0.00040	0.0060	mg/kg		8260B	06/12/09	1
n-Propylbenzene	U	0.00020	0.0012	mg/kg		8260B	06/12/09	1
Styrene	U	0.00020	0.0012	mg/kg		8260B	06/12/09	1
1,1,1,2-Tetrachloroethane	U	0.00020	0.0012	mg/kg		8260B	06/12/09	1
1,1,2,2-Tetrachloroethane	U	0.00033	0.0012	mg/kg		8260B	06/12/09	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.00025	0.0012	mg/kg		8260B	06/12/09	1
Tetrachloroethene	0.016	0.00023	0.0012	mg/kg		8260B	06/12/09	1
Toluene	U	0.0012	0.0060	mg/kg		8260B	06/12/09	1
1,2,3-Trichlorobenzene	U	0.00023	0.0012	mg/kg		8260B	06/12/09	1
1,2,4-Trichlorobenzene	U	0.00025	0.0012	mg/kg		8260B	06/12/09	1
1,1,1-Trichloroethane	U	0.00052	0.0012	mg/kg		8260B	06/12/09	1
1,1,2-Trichloroethane	U	0.00046	0.0012	mg/kg		8260B	06/12/09	1
Trichloroethene	U	0.00034	0.0012	mg/kg		8260B	06/12/09	1
Trichlorofluoromethane	U	0.00027	0.0060	mg/kg		8260B	06/12/09	1
1,2,3-Trichloropropane	U	0.00068	0.0012	mg/kg		8260B	06/12/09	1
1,2,4-Trimethylbenzene	U	0.00017	0.0012	mg/kg		8260B	06/12/09	1
1,2,3-Trimethylbenzene	U	0.00020	0.0012	mg/kg		8260B	06/12/09	1
1,3,5-Trimethylbenzene	U	0.00022	0.0012	mg/kg		8260B	06/12/09	1
Vinyl chloride	U	0.00029	0.0012	mg/kg		8260B	06/12/09	1
Xylenes, Total	U	0.00046	0.0036	mg/kg		8260B	06/12/09	1
Surrogate Recovery								
Toluene-d8	100.			% Rec.		8260B	06/12/09	1
Dibromofluoromethane	105.			% Rec.		8260B	06/12/09	1
a,a,a-Trifluorotoluene	103.			% Rec.		8260B	06/12/09	1
4-Bromofluorobenzene	89.0			% Rec.		8260B	06/12/09	1
Mineral Spirits	U	1.3	4.8	mg/kg		OA2	06/12/09	1
Kerosene (C9-C16)	U	1.3	4.8	mg/kg		OA2	06/12/09	1
Diesel (C7-C26)	U	1.3	4.8	mg/kg		OA2	06/12/09	1
#6 Fuel Oil (C10-C32)	U	1.3	4.8	mg/kg		OA2	06/12/09	1
Hydraulic Fluid (C12-C33)	U	1.3	4.8	mg/kg		OA2	06/12/09	1
Motor Oil (C16-C40)	U	3.3	12.	mg/kg		OA2	06/12/09	1
Surrogate recovery(%)								
o-Terphenyl	95.4			% Rec.		OA2	06/12/09	1

Results listed are dry weight basis.

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Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L406924-03	WG426200	SAMP	Acetone	R780594	J
	WG426200	SAMP	2-Butanone (MEK)	R780594	J
L406924-04	WG426406	SAMP	2-Butanone (MEK)	R781646	J

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
06/14/09 at 18:48:30

TSR Signing Reports: 341  
RX - Priority Rush

QC2MOD

Sample: L406924-01 Account: NOVCONCMN Received: 06/10/09 09:00 Due Date: 06/15/09 00:00 RPT Date: 06/14/09 18:47  
looking for naphta or any compound associated with the dry cleaning solvent DF2000.

Sample: L406924-02 Account: NOVCONCMN Received: 06/10/09 09:00 Due Date: 06/15/09 00:00 RPT Date: 06/14/09 18:47

Sample: L406924-03 Account: NOVCONCMN Received: 06/10/09 09:00 Due Date: 06/15/09 00:00 RPT Date: 06/14/09 18:47

Sample: L406924-04 Account: NOVCONCMN Received: 06/10/09 09:00 Due Date: 06/15/09 00:00 RPT Date: 06/14/09 18:47

Sample: L406924-05 Account: NOVCONCMN Received: 06/10/09 09:00 Due Date: 06/15/09 00:00 RPT Date: 06/14/09 18:47



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Eric Halpaus  
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Quality Assurance Report  
Level II

Chaska, MN 55318

June 14, 2009

L406924

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG426200	06/11/09 16:00
1,1,1-Trichloroethane	< .001	mg/kg			WG426200	06/11/09 16:00
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG426200	06/11/09 16:00
1,1,2-Trichloroethane	< .001	mg/kg			WG426200	06/11/09 16:00
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG426200	06/11/09 16:00
1,1-Dichloroethane	< .001	mg/kg			WG426200	06/11/09 16:00
1,1-Dichloroethene	< .001	mg/kg			WG426200	06/11/09 16:00
1,1-Dichloropropene	< .001	mg/kg			WG426200	06/11/09 16:00
1,2,3-Trichlorobenzene	< .001	mg/kg			WG426200	06/11/09 16:00
1,2,3-Trichloropropane	< .001	mg/kg			WG426200	06/11/09 16:00
1,2,3-Trimethylbenzene	< .001	mg/kg			WG426200	06/11/09 16:00
1,2,4-Trichlorobenzene	< .001	mg/kg			WG426200	06/11/09 16:00
1,2,4-Trimethylbenzene	< .001	mg/kg			WG426200	06/11/09 16:00
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG426200	06/11/09 16:00
1,2-Dibromoethane	< .001	mg/kg			WG426200	06/11/09 16:00
1,2-Dichlorobenzene	< .001	mg/kg			WG426200	06/11/09 16:00
1,2-Dichloroethane	< .001	mg/kg			WG426200	06/11/09 16:00
1,2-Dichloropropane	< .001	mg/kg			WG426200	06/11/09 16:00
1,3,5-Trimethylbenzene	< .001	mg/kg			WG426200	06/11/09 16:00
1,3-Dichlorobenzene	< .001	mg/kg			WG426200	06/11/09 16:00
1,3-Dichloropropane	< .001	mg/kg			WG426200	06/11/09 16:00
1,4-Dichlorobenzene	< .001	mg/kg			WG426200	06/11/09 16:00
2,2-Dichloropropane	< .001	mg/kg			WG426200	06/11/09 16:00
2-Butanone (MEK)	< .01	mg/kg			WG426200	06/11/09 16:00
2-Chloroethyl vinyl ether	< .001	mg/kg			WG426200	06/11/09 16:00
2-Chlorotoluene	< .001	mg/kg			WG426200	06/11/09 16:00
4-Chlorotoluene	< .001	mg/kg			WG426200	06/11/09 16:00
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG426200	06/11/09 16:00
Acetone	< .05	mg/kg			WG426200	06/11/09 16:00
Acrylonitrile	< .01	mg/kg			WG426200	06/11/09 16:00
Benzene	< .001	mg/kg			WG426200	06/11/09 16:00
Bromobenzene	< .001	mg/kg			WG426200	06/11/09 16:00
Bromodichloromethane	< .001	mg/kg			WG426200	06/11/09 16:00
Bromoform	< .001	mg/kg			WG426200	06/11/09 16:00
Bromomethane	< .005	mg/kg			WG426200	06/11/09 16:00
Carbon tetrachloride	< .001	mg/kg			WG426200	06/11/09 16:00
Chlorobenzene	< .001	mg/kg			WG426200	06/11/09 16:00
Chlorodibromomethane	< .001	mg/kg			WG426200	06/11/09 16:00
Chloroethane	< .005	mg/kg			WG426200	06/11/09 16:00
Chloroform	< .005	mg/kg			WG426200	06/11/09 16:00
Chloromethane	< .001	mg/kg			WG426200	06/11/09 16:00
cis-1,2-Dichloroethene	< .001	mg/kg			WG426200	06/11/09 16:00
cis-1,3-Dichloropropene	< .001	mg/kg			WG426200	06/11/09 16:00
Di-isopropyl ether	< .001	mg/kg			WG426200	06/11/09 16:00
Dibromomethane	< .001	mg/kg			WG426200	06/11/09 16:00
Dichlorodifluoromethane	< .005	mg/kg			WG426200	06/11/09 16:00
Ethylbenzene	< .001	mg/kg			WG426200	06/11/09 16:00
Hexachloro-1,3-butadiene	< .001	mg/kg			WG426200	06/11/09 16:00
Isopropylbenzene	< .001	mg/kg			WG426200	06/11/09 16:00
Methyl tert-butyl ether	< .001	mg/kg			WG426200	06/11/09 16:00
Methylene Chloride	< .005	mg/kg			WG426200	06/11/09 16:00
n-Butylbenzene	< .001	mg/kg			WG426200	06/11/09 16:00
n-Propylbenzene	< .001	mg/kg			WG426200	06/11/09 16:00
Naphthalene	< .005	mg/kg			WG426200	06/11/09 16:00
p-Isopropyltoluene	< .001	mg/kg			WG426200	06/11/09 16:00
sec-Butylbenzene	< .001	mg/kg			WG426200	06/11/09 16:00
Styrene	< .001	mg/kg			WG426200	06/11/09 16:00
tert-Butylbenzene	< .001	mg/kg			WG426200	06/11/09 16:00
Tetrachloroethene	< .001	mg/kg			WG426200	06/11/09 16:00

\* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'





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Eric Halpaus  
1107 Hazeltine Blvd, Ste 400

Quality Assurance Report  
Level II

Chaska, MN 55318

L406924

June 14, 2009

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Toluene	< .005	mg/kg			WG426200	06/11/09 16:00
trans-1,2-Dichloroethene	< .001	mg/kg			WG426200	06/11/09 16:00
trans-1,3-Dichloropropene	< .001	mg/kg			WG426200	06/11/09 16:00
Trichloroethene	< .001	mg/kg			WG426200	06/11/09 16:00
Trichlorofluoromethane	< .005	mg/kg			WG426200	06/11/09 16:00
Vinyl chloride	< .001	mg/kg			WG426200	06/11/09 16:00
4-Bromofluorobenzene		% Rec.	100.5	59-140	WG426200	06/11/09 16:00
Dibromofluoromethane		% Rec.	101.6	63-139	WG426200	06/11/09 16:00
Toluene-d8		% Rec.	103.3	84-116	WG426200	06/11/09 16:00
a,a,a-Trifluorotoluene		% Rec.	102.9	80-118	WG426200	06/11/09 16:00
Total Solids	< .1	%			WG426132	06/12/09 10:42
#6 Fuel Oil (C10-C32)	< 4	mg/kg			WG426182	06/12/09 09:27
Diesel (C7-C26)	< 4	mg/kg			WG426182	06/12/09 09:27
Hydraulic Fluid (C12-C33)	< 4	mg/kg			WG426182	06/12/09 09:27
Kerosene (C9-C16)	< 4	mg/kg			WG426182	06/12/09 09:27
Mineral Spirits	< 4	mg/kg			WG426182	06/12/09 09:27
Motor Oil (C16-C40)	< 10	mg/kg			WG426182	06/12/09 09:27
o-Terphenyl		% Rec.	96.24	50-150	WG426182	06/12/09 09:27
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG426406	06/12/09 19:57
1,1,1-Trichloroethane	< .001	mg/kg			WG426406	06/12/09 19:57
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG426406	06/12/09 19:57
1,1,2-Trichloroethane	< .001	mg/kg			WG426406	06/12/09 19:57
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG426406	06/12/09 19:57
1,1-Dichloroethane	< .001	mg/kg			WG426406	06/12/09 19:57
1,1-Dichloroethene	< .001	mg/kg			WG426406	06/12/09 19:57
1,1-Dichloropropene	< .001	mg/kg			WG426406	06/12/09 19:57
1,2,3-Trichlorobenzene	< .001	mg/kg			WG426406	06/12/09 19:57
1,2,3-Trichloropropane	< .001	mg/kg			WG426406	06/12/09 19:57
1,2,3-Trimethylbenzene	< .001	mg/kg			WG426406	06/12/09 19:57
1,2,4-Trichlorobenzene	< .001	mg/kg			WG426406	06/12/09 19:57
1,2,4-Trimethylbenzene	< .001	mg/kg			WG426406	06/12/09 19:57
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG426406	06/12/09 19:57
1,2-Dibromoethane	< .001	mg/kg			WG426406	06/12/09 19:57
1,2-Dichlorobenzene	< .001	mg/kg			WG426406	06/12/09 19:57
1,2-Dichloroethane	< .001	mg/kg			WG426406	06/12/09 19:57
1,2-Dichloropropane	< .001	mg/kg			WG426406	06/12/09 19:57
1,3,5-Trimethylbenzene	< .001	mg/kg			WG426406	06/12/09 19:57
1,3-Dichlorobenzene	< .001	mg/kg			WG426406	06/12/09 19:57
1,3-Dichloropropane	< .001	mg/kg			WG426406	06/12/09 19:57
1,4-Dichlorobenzene	< .001	mg/kg			WG426406	06/12/09 19:57
2,2-Dichloropropane	< .001	mg/kg			WG426406	06/12/09 19:57
2-Butanone (MEK)	< .01	mg/kg			WG426406	06/12/09 19:57
2-Chloroethyl vinyl ether	< .001	mg/kg			WG426406	06/12/09 19:57
2-Chlorotoluene	< .001	mg/kg			WG426406	06/12/09 19:57
4-Chlorotoluene	< .001	mg/kg			WG426406	06/12/09 19:57
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG426406	06/12/09 19:57
Acetone	< .05	mg/kg			WG426406	06/12/09 19:57
Acrylonitrile	< .01	mg/kg			WG426406	06/12/09 19:57
Benzene	< .001	mg/kg			WG426406	06/12/09 19:57
Bromobenzene	< .001	mg/kg			WG426406	06/12/09 19:57
Bromodichloromethane	< .001	mg/kg			WG426406	06/12/09 19:57
Bromoform	< .001	mg/kg			WG426406	06/12/09 19:57
Bromomethane	< .005	mg/kg			WG426406	06/12/09 19:57

\* Performance of this Analyte is outside of established criteria.

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Quality Assurance Report  
Level II

Chaska, MN 55318

L406924

June 14, 2009

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Carbon tetrachloride	< .001	mg/kg			WG426406	06/12/09 19:57
Chlorobenzene	< .001	mg/kg			WG426406	06/12/09 19:57
Chlorodibromomethane	< .001	mg/kg			WG426406	06/12/09 19:57
Chloroethane	< .005	mg/kg			WG426406	06/12/09 19:57
Chloroform	< .005	mg/kg			WG426406	06/12/09 19:57
Chloromethane	< .001	mg/kg			WG426406	06/12/09 19:57
cis-1,2-Dichloroethene	< .001	mg/kg			WG426406	06/12/09 19:57
cis-1,3-Dichloropropene	< .001	mg/kg			WG426406	06/12/09 19:57
Di-isopropyl ether	< .001	mg/kg			WG426406	06/12/09 19:57
Dibromomethane	< .001	mg/kg			WG426406	06/12/09 19:57
Dichlorodifluoromethane	< .005	mg/kg			WG426406	06/12/09 19:57
Ethylbenzene	< .001	mg/kg			WG426406	06/12/09 19:57
Hexachloro-1,3-butadiene	< .001	mg/kg			WG426406	06/12/09 19:57
Isopropylbenzene	< .001	mg/kg			WG426406	06/12/09 19:57
Methyl tert-butyl ether	< .001	mg/kg			WG426406	06/12/09 19:57
Methylene Chloride	< .005	mg/kg			WG426406	06/12/09 19:57
n-Butylbenzene	< .001	mg/kg			WG426406	06/12/09 19:57
n-Propylbenzene	< .001	mg/kg			WG426406	06/12/09 19:57
Naphthalene	< .005	mg/kg			WG426406	06/12/09 19:57
p-Isopropyltoluene	< .001	mg/kg			WG426406	06/12/09 19:57
sec-Butylbenzene	< .001	mg/kg			WG426406	06/12/09 19:57
Styrene	< .001	mg/kg			WG426406	06/12/09 19:57
tert-Butylbenzene	< .001	mg/kg			WG426406	06/12/09 19:57
Tetrachloroethene	< .001	mg/kg			WG426406	06/12/09 19:57
Toluene	< .005	mg/kg			WG426406	06/12/09 19:57
trans-1,2-Dichloroethene	< .001	mg/kg			WG426406	06/12/09 19:57
trans-1,3-Dichloropropene	< .001	mg/kg			WG426406	06/12/09 19:57
Trichloroethene	< .001	mg/kg			WG426406	06/12/09 19:57
Trichlorofluoromethane	< .005	mg/kg			WG426406	06/12/09 19:57
Vinyl chloride	< .001	mg/kg			WG426406	06/12/09 19:57
4-Bromofluorobenzene		% Rec.	99.34	59-140	WG426406	06/12/09 19:57
Dibromofluoromethane		% Rec.	102.5	63-139	WG426406	06/12/09 19:57
Toluene-d8		% Rec.	103.7	84-116	WG426406	06/12/09 19:57
a,a,a-Trifluorotoluene		% Rec.	102.4	80-118	WG426406	06/12/09 19:57

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Total Solids	%	86.1	86.2	0.117	5	L406813-04	WG426132

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0484	96.8	73-134	WG426200
1,1,1-Trichloroethane	mg/kg	.05	0.0458	91.7	62-135	WG426200
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0562	112.	74-129	WG426200
1,1,2-Trichloroethane	mg/kg	.05	0.0449	89.9	77-124	WG426200
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0487	97.4	49-155	WG426200
1,1-Dichloroethane	mg/kg	.05	0.0481	96.2	61-134	WG426200
1,1-Dichloroethene	mg/kg	.05	0.0504	101.	53-136	WG426200
1,1-Dichloropropene	mg/kg	.05	0.0479	95.8	63-132	WG426200
1,2,3-Trichlorobenzene	mg/kg	.05	0.0505	101.	62-146	WG426200
1,2,3-Trichloropropane	mg/kg	.05	0.0563	113.	70-133	WG426200
1,2,3-Trimethylbenzene	mg/kg	.05	0.0460	92.0	73-126	WG426200
1,2,4-Trichlorobenzene	mg/kg	.05	0.0488	97.6	61-148	WG426200
1,2,4-Trimethylbenzene	mg/kg	.05	0.0468	93.5	68-135	WG426200
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0595	119.	61-134	WG426200
1,2-Dibromoethane	mg/kg	.05	0.0460	91.9	76-127	WG426200
1,2-Dichlorobenzene	mg/kg	.05	0.0482	96.4	77-123	WG426200

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Quality Assurance Report  
Level II

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June 14, 2009

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,2-Dichloroethane	mg/kg	.05	0.0485	97.0	58-141	WG426200
1,2-Dichloropropane	mg/kg	.05	0.0471	94.2	71-128	WG426200
1,3,5-Trimethylbenzene	mg/kg	.05	0.0467	93.5	71-133	WG426200
1,3-Dichlorobenzene	mg/kg	.05	0.0471	94.1	71-132	WG426200
1,3-Dichloropropane	mg/kg	.05	0.0449	89.8	76-120	WG426200
1,4-Dichlorobenzene	mg/kg	.05	0.0456	91.3	72-123	WG426200
2,2-Dichloropropane	mg/kg	.05	0.0453	90.5	50-147	WG426200
2-Butanone (MEK)	mg/kg	.25	0.255	102.	51-131	WG426200
2-Chloroethyl vinyl ether	mg/kg	.25	0.298	119.	0-188	WG426200
2-Chlorotoluene	mg/kg	.05	0.0455	91.1	73-128	WG426200
4-Chlorotoluene	mg/kg	.05	0.0450	89.9	72-129	WG426200
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.295	118.	61-143	WG426200
Acetone	mg/kg	.25	0.289	116.	44-140	WG426200
Acrylonitrile	mg/kg	.25	0.274	110.	55-143	WG426200
Benzene	mg/kg	.05	0.0479	95.8	65-128	WG426200
Bromobenzene	mg/kg	.05	0.0480	96.0	75-123	WG426200
Bromodichloromethane	mg/kg	.05	0.0470	93.9	66-126	WG426200
Bromoform	mg/kg	.05	0.0556	111.	64-139	WG426200
Bromomethane	mg/kg	.05	0.0451	90.3	41-175	WG426200
Carbon tetrachloride	mg/kg	.05	0.0455	91.1	60-140	WG426200
Chlorobenzene	mg/kg	.05	0.0442	88.4	75-125	WG426200
Chlorodibromomethane	mg/kg	.05	0.0469	93.7	72-137	WG426200
Chloroethane	mg/kg	.05	0.0428	85.7	44-159	WG426200
Chloroform	mg/kg	.05	0.0494	98.9	63-123	WG426200
Chloromethane	mg/kg	.05	0.0442	88.4	42-149	WG426200
cis-1,2-Dichloroethene	mg/kg	.05	0.0479	95.7	71-129	WG426200
cis-1,3-Dichloropropene	mg/kg	.05	0.0484	96.8	73-132	WG426200
Di-isopropyl ether	mg/kg	.05	0.0494	98.9	59-143	WG426200
Dibromomethane	mg/kg	.05	0.0476	95.2	70-130	WG426200
Dichlorodifluoromethane	mg/kg	.05	0.0457	91.3	26-186	WG426200
Ethylbenzene	mg/kg	.05	0.0450	90.1	74-128	WG426200
Hexachloro-1,3-butadiene	mg/kg	.05	0.0458	91.6	65-137	WG426200
Isopropylbenzene	mg/kg	.05	0.0459	91.8	73-130	WG426200
Methyl tert-butyl ether	mg/kg	.05	0.0470	94.0	44-148	WG426200
Methylene Chloride	mg/kg	.05	0.0468	93.5	57-129	WG426200
n-Butylbenzene	mg/kg	.05	0.0455	91.1	60-145	WG426200
n-Propylbenzene	mg/kg	.05	0.0457	91.3	71-132	WG426200
Naphthalene	mg/kg	.05	0.0574	115.	61-142	WG426200
p-Isopropyltoluene	mg/kg	.05	0.0462	92.5	67-138	WG426200
sec-Butylbenzene	mg/kg	.05	0.0456	91.2	71-134	WG426200
Styrene	mg/kg	.05	0.0487	97.5	76-133	WG426200
tert-Butylbenzene	mg/kg	.05	0.0455	91.0	72-132	WG426200
Tetrachloroethene	mg/kg	.05	0.0453	90.6	65-135	WG426200
Toluene	mg/kg	.05	0.0436	87.1	70-120	WG426200
trans-1,2-Dichloroethene	mg/kg	.05	0.0487	97.4	61-133	WG426200
trans-1,3-Dichloropropene	mg/kg	.05	0.0483	96.5	70-135	WG426200
Trichloroethene	mg/kg	.05	0.0454	90.8	71-126	WG426200
Trichlorofluoromethane	mg/kg	.05	0.0431	86.2	52-147	WG426200
Vinyl chloride	mg/kg	.05	0.0428	85.6	50-151	WG426200
4-Bromofluorobenzene				101.1	59-140	WG426200
Dibromofluoromethane				103.1	63-139	WG426200
Toluene-d8				99.96	84-116	WG426200
a,a,a-Trifluorotoluene				98.61	80-118	WG426200
Total Solids	%	50	50.0	100.	85-115	WG426132
Diesel (C7-C26)	mg/kg	30	20.6	68.7	50-150	WG426182

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Level II

L406924

June 14, 2009

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
Motor Oil (C16-C40)	mg/kg	30	24.2	80.8	50-150	WG426182
o-Terphenyl				85.32	50-150	WG426182
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0441	88.2	73-134	WG426406
1,1,1-Trichloroethane	mg/kg	.05	0.0465	93.0	62-135	WG426406
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0436	87.1	74-129	WG426406
1,1,2-Trichloroethane	mg/kg	.05	0.0403	80.7	77-124	WG426406
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0463	92.6	49-155	WG426406
1,1-Dichloroethane	mg/kg	.05	0.0486	97.1	61-134	WG426406
1,1-Dichloroethene	mg/kg	.05	0.0450	90.0	53-136	WG426406
1,1-Dichloropropene	mg/kg	.05	0.0456	91.2	63-132	WG426406
1,2,3-Trichlorobenzene	mg/kg	.05	0.0402	80.3	62-146	WG426406
1,2,3-Trichloropropane	mg/kg	.05	0.0452	90.4	70-133	WG426406
1,2,3-Trimethylbenzene	mg/kg	.05	0.0414	82.9	73-126	WG426406
1,2,4-Trichlorobenzene	mg/kg	.05	0.0400	80.1	61-148	WG426406
1,2,4-Trimethylbenzene	mg/kg	.05	0.0424	84.8	68-135	WG426406
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0424	84.7	61-134	WG426406
1,2-Dibromoethane	mg/kg	.05	0.0415	82.9	76-127	WG426406
1,2-Dichlorobenzene	mg/kg	.05	0.0406	81.3	77-123	WG426406
1,2-Dichloroethane	mg/kg	.05	0.0445	88.9	58-141	WG426406
1,2-Dichloropropane	mg/kg	.05	0.0454	90.8	71-128	WG426406
1,3,5-Trimethylbenzene	mg/kg	.05	0.0444	88.9	71-133	WG426406
1,3-Dichlorobenzene	mg/kg	.05	0.0419	83.9	71-132	WG426406
1,3-Dichloropropane	mg/kg	.05	0.0411	82.3	76-120	WG426406
1,4-Dichlorobenzene	mg/kg	.05	0.0396	79.3	72-123	WG426406
2,2-Dichloropropane	mg/kg	.05	0.0466	93.2	50-147	WG426406
2-Butanone (MEK)	mg/kg	.25	0.206	82.5	51-131	WG426406
2-Chloroethyl vinyl ether	mg/kg	.25	0.270	108.	0-188	WG426406
2-Chlorotoluene	mg/kg	.05	0.0429	85.8	73-128	WG426406
4-Chlorotoluene	mg/kg	.05	0.0416	83.2	72-129	WG426406
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.237	94.9	61-143	WG426406
Acetone	mg/kg	.25	0.259	104.	44-140	WG426406
Acrylonitrile	mg/kg	.25	0.250	99.8	55-143	WG426406
Benzene	mg/kg	.05	0.0448	89.6	65-128	WG426406
Bromobenzene	mg/kg	.05	0.0423	84.6	75-123	WG426406
Bromodichloromethane	mg/kg	.05	0.0444	88.8	66-126	WG426406
Bromoform	mg/kg	.05	0.0463	92.5	64-139	WG426406
Bromomethane	mg/kg	.05	0.0433	86.6	41-175	WG426406
Carbon tetrachloride	mg/kg	.05	0.0447	89.5	60-140	WG426406
Chlorobenzene	mg/kg	.05	0.0418	83.6	75-125	WG426406
Chlorodibromomethane	mg/kg	.05	0.0418	83.6	72-137	WG426406
Chloroethane	mg/kg	.05	0.0440	88.0	44-159	WG426406
Chloroform	mg/kg	.05	0.0483	96.7	63-123	WG426406
Chloromethane	mg/kg	.05	0.0424	84.7	42-149	WG426406
cis-1,2-Dichloroethene	mg/kg	.05	0.0455	91.1	71-129	WG426406
cis-1,3-Dichloropropene	mg/kg	.05	0.0450	90.1	73-132	WG426406
Di-isopropyl ether	mg/kg	.05	0.0489	97.8	59-143	WG426406
Dibromomethane	mg/kg	.05	0.0444	88.8	70-130	WG426406
Dichlorodifluoromethane	mg/kg	.05	0.0465	93.0	26-186	WG426406
Ethylbenzene	mg/kg	.05	0.0435	87.0	74-128	WG426406
Hexachloro-1,3-butadiene	mg/kg	.05	0.0414	82.9	65-137	WG426406
Isopropylbenzene	mg/kg	.05	0.0443	88.6	73-130	WG426406
Methyl tert-butyl ether	mg/kg	.05	0.0446	89.1	44-148	WG426406
Methylene Chloride	mg/kg	.05	0.0443	88.6	57-129	WG426406
n-Butylbenzene	mg/kg	.05	0.0429	85.8	60-145	WG426406
n-Propylbenzene	mg/kg	.05	0.0435	87.1	71-132	WG426406
Naphthalene	mg/kg	.05	0.0418	83.7	61-142	WG426406
p-Isopropyltoluene	mg/kg	.05	0.0441	88.2	67-138	WG426406

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June 14, 2009

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
sec-Butylbenzene	mg/kg	.05	0.0443	88.5	71-134	WG426406
Styrene	mg/kg	.05	0.0451	90.2	76-133	WG426406
tert-Butylbenzene	mg/kg	.05	0.0437	87.3	72-132	WG426406
Tetrachloroethene	mg/kg	.05	0.0426	85.3	65-135	WG426406
Toluene	mg/kg	.05	0.0417	83.3	70-120	WG426406
trans-1,2-Dichloroethene	mg/kg	.05	0.0441	88.2	61-133	WG426406
trans-1,3-Dichloropropene	mg/kg	.05	0.0448	89.6	70-135	WG426406
Trichloroethene	mg/kg	.05	0.0420	84.1	71-126	WG426406
Trichlorofluoromethane	mg/kg	.05	0.0459	91.8	52-147	WG426406
Vinyl chloride	mg/kg	.05	0.0436	87.2	50-151	WG426406
4-Bromofluorobenzene				103.0	59-140	WG426406
Dibromofluoromethane				105.5	63-139	WG426406
Toluene-d8				101.1	84-116	WG426406
a,a,a-Trifluorotoluene				101.1	80-118	WG426406

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
1,1,1,2-Tetrachloroethane	mg/kg	0.0443	0.0484	89.0	73-134	8.83	20	WG426200
1,1,1-Trichloroethane	mg/kg	0.0471	0.0458	94.0	62-135	2.76	20	WG426200
1,1,2,2-Tetrachloroethane	mg/kg	0.0461	0.0562	92.0	74-129	19.6	20	WG426200
1,1,2-Trichloroethane	mg/kg	0.0432	0.0449	86.0	77-124	3.95	20	WG426200
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0464	0.0487	93.0	49-155	4.74	20	WG426200
1,1-Dichloroethane	mg/kg	0.0461	0.0481	92.0	61-134	4.27	20	WG426200
1,1-Dichloroethene	mg/kg	0.0474	0.0504	95.0	53-136	6.13	20	WG426200
1,1-Dichloropropene	mg/kg	0.0465	0.0479	93.0	63-132	3.07	20	WG426200
1,2,3-Trichlorobenzene	mg/kg	0.0466	0.0505	93.0	62-146	7.99	20	WG426200
1,2,3-Trichloropropane	mg/kg	0.0461	0.0563	92.0	70-133	19.9	20	WG426200
1,2,3-Trimethylbenzene	mg/kg	0.0428	0.0460	86.0	73-126	7.23	20	WG426200
1,2,4-Trichlorobenzene	mg/kg	0.0445	0.0488	89.0	61-148	9.18	20	WG426200
1,2,4-Trimethylbenzene	mg/kg	0.0438	0.0468	88.0	68-135	6.47	20	WG426200
1,2-Dibromo-3-Chloropropane	mg/kg	0.0535	0.0595	107.	61-134	10.7	21	WG426200
1,2-Dibromoethane	mg/kg	0.0438	0.0460	88.0	76-127	4.76	20	WG426200
1,2-Dichlorobenzene	mg/kg	0.0436	0.0482	87.0	77-123	10.1	20	WG426200
1,2-Dichloroethane	mg/kg	0.0462	0.0485	92.0	58-141	4.88	20	WG426200
1,2-Dichloropropane	mg/kg	0.0457	0.0471	91.0	71-128	2.98	20	WG426200
1,3,5-Trimethylbenzene	mg/kg	0.0437	0.0467	87.0	71-133	6.70	20	WG426200
1,3-Dichlorobenzene	mg/kg	0.0427	0.0471	85.0	71-132	9.80	20	WG426200
1,3-Dichloropropane	mg/kg	0.0435	0.0449	87.0	76-120	3.22	20	WG426200
1,4-Dichlorobenzene	mg/kg	0.0423	0.0456	85.0	72-123	7.59	20	WG426200
2,2-Dichloropropane	mg/kg	0.0451	0.0453	90.0	50-147	0.398	20	WG426200
2-Butanone (MEK)	mg/kg	0.210	0.255	84.0	51-131	19.3	25	WG426200
2-Chloroethyl vinyl ether	mg/kg	0.304	0.298	122.	0-188	1.85	39	WG426200
2-Chlorotoluene	mg/kg	0.0422	0.0455	84.0	73-128	7.55	20	WG426200
4-Chlorotoluene	mg/kg	0.0425	0.0450	85.0	72-129	5.52	20	WG426200
4-Methyl-2-pentanone (MIBK)	mg/kg	0.250	0.295	100.	61-143	16.4	23	WG426200
Acetone	mg/kg	0.230	0.289	92.0	44-140	22.8	25	WG426200
Acrylonitrile	mg/kg	0.234	0.274	94.0	55-143	15.6	20	WG426200
Benzene	mg/kg	0.0468	0.0479	94.0	65-128	2.20	20	WG426200
Bromobenzene	mg/kg	0.0440	0.0480	88.0	75-123	8.70	20	WG426200
Bromodichloromethane	mg/kg	0.0446	0.0470	89.0	66-126	5.25	20	WG426200
Bromoform	mg/kg	0.0474	0.0556	95.0	64-139	15.9	20	WG426200
Bromomethane	mg/kg	0.0454	0.0451	91.0	41-175	0.506	20	WG426200
Carbon tetrachloride	mg/kg	0.0437	0.0455	87.0	60-140	4.18	20	WG426200
Chlorobenzene	mg/kg	0.0433	0.0442	87.0	75-125	2.00	20	WG426200
Chlorodibromomethane	mg/kg	0.0441	0.0469	88.0	72-137	6.16	20	WG426200
Chloroethane	mg/kg	0.0419	0.0428	84.0	44-159	2.20	20	WG426200
Chloroform	mg/kg	0.0471	0.0494	94.0	63-123	4.91	20	WG426200
Chloromethane	mg/kg	0.0433	0.0442	87.0	42-149	2.01	20	WG426200

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Est. 1970

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Quality Assurance Report  
Level II

Chaska, MN 55318

L406924

June 14, 2009

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
cis-1,2-Dichloroethene	mg/kg	0.0459	0.0479	92.0	71-129	4.27	20	WG426200
cis-1,3-Dichloropropene	mg/kg	0.0480	0.0484	96.0	73-132	0.943	20	WG426200
Di-isopropyl ether	mg/kg	0.0477	0.0494	95.0	59-143	3.66	20	WG426200
Dibromomethane	mg/kg	0.0452	0.0476	90.0	70-130	5.21	20	WG426200
Dichlorodifluoromethane	mg/kg	0.0433	0.0457	87.0	26-186	5.36	22	WG426200
Ethylbenzene	mg/kg	0.0449	0.0450	90.0	74-128	0.322	20	WG426200
Hexachloro-1,3-butadiene	mg/kg	0.0431	0.0458	86.0	65-137	6.10	20	WG426200
Isopropylbenzene	mg/kg	0.0441	0.0459	88.0	73-130	4.01	20	WG426200
Methyl tert-butyl ether	mg/kg	0.0431	0.0470	86.0	44-148	8.76	20	WG426200
Methylene Chloride	mg/kg	0.0451	0.0468	90.0	57-129	3.71	20	WG426200
n-Butylbenzene	mg/kg	0.0432	0.0455	86.0	60-145	5.36	20	WG426200
n-Propylbenzene	mg/kg	0.0439	0.0457	88.0	71-132	4.00	20	WG426200
Naphthalene	mg/kg	0.0503	0.0574	101.	61-142	13.2	20	WG426200
p-Isopropyltoluene	mg/kg	0.0438	0.0462	88.0	67-138	5.44	20	WG426200
sec-Butylbenzene	mg/kg	0.0426	0.0456	85.0	71-134	6.74	20	WG426200
Styrene	mg/kg	0.0464	0.0487	93.0	76-133	4.97	20	WG426200
tert-Butylbenzene	mg/kg	0.0428	0.0455	86.0	72-132	5.98	20	WG426200
Tetrachloroethene	mg/kg	0.0460	0.0453	92.0	65-135	1.43	20	WG426200
Toluene	mg/kg	0.0444	0.0436	89.0	70-120	1.84	20	WG426200
trans-1,2-Dichloroethene	mg/kg	0.0467	0.0487	93.0	61-133	4.22	20	WG426200
trans-1,3-Dichloropropene	mg/kg	0.0474	0.0483	95.0	70-135	1.72	20	WG426200
Trichloroethene	mg/kg	0.0442	0.0454	88.0	71-126	2.73	20	WG426200
Trichlorofluoromethane	mg/kg	0.0423	0.0431	85.0	52-147	1.77	20	WG426200
Vinyl chloride	mg/kg	0.0420	0.0428	84.0	50-151	1.94	20	WG426200
4-Bromofluorobenzene				101.9	59-140			WG426200
Dibromofluoromethane				101.8	63-139			WG426200
Toluene-d8				103.4	84-116			WG426200
a,a,a-Trifluorotoluene				104.3	80-118			WG426200
Diesel (C7-C26)	mg/kg	18.8	20.6	63.0	50-150	9.26	20	WG426182
Motor Oil (C16-C40)	mg/kg	22.6	24.2	75.0	50-150	6.84	25	WG426182
o-Terphenyl				82.52	50-150			WG426182
1,1,1,2-Tetrachloroethane	mg/kg	0.0443	0.0441	89.0	73-134	0.363	20	WG426406
1,1,1-Trichloroethane	mg/kg	0.0459	0.0465	92.0	62-135	1.34	20	WG426406
1,1,2,2-Tetrachloroethane	mg/kg	0.0447	0.0436	89.0	74-129	2.50	20	WG426406
1,1,2-Trichloroethane	mg/kg	0.0424	0.0403	85.0	77-124	4.94	20	WG426406
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0455	0.0463	91.0	49-155	1.85	20	WG426406
1,1-Dichloroethane	mg/kg	0.0457	0.0486	91.0	61-134	5.96	20	WG426406
1,1-Dichloroethene	mg/kg	0.0435	0.0450	87.0	53-136	3.39	20	WG426406
1,1-Dichloropropene	mg/kg	0.0432	0.0456	86.0	63-132	5.48	20	WG426406
1,2,3-Trichlorobenzene	mg/kg	0.0396	0.0402	79.0	62-146	1.30	20	WG426406
1,2,3-Trichloropropane	mg/kg	0.0467	0.0452	93.0	70-133	3.20	20	WG426406
1,2,3-Trimethylbenzene	mg/kg	0.0410	0.0414	82.0	73-126	1.01	20	WG426406
1,2,4-Trichlorobenzene	mg/kg	0.0402	0.0400	80.0	61-148	0.477	20	WG426406
1,2,4-Trimethylbenzene	mg/kg	0.0416	0.0424	83.0	68-135	1.93	20	WG426406
1,2-Dibromo-3-Chloropropane	mg/kg	0.0458	0.0424	92.0	61-134	7.82	21	WG426406
1,2-Dibromoethane	mg/kg	0.0432	0.0415	86.0	76-127	4.16	20	WG426406
1,2-Dichlorobenzene	mg/kg	0.0412	0.0406	82.0	77-123	1.33	20	WG426406
1,2-Dichloroethane	mg/kg	0.0453	0.0445	91.0	58-141	1.79	20	WG426406
1,2-Dichloropropane	mg/kg	0.0446	0.0454	89.0	71-128	1.72	20	WG426406
1,3,5-Trimethylbenzene	mg/kg	0.0424	0.0444	85.0	71-133	4.69	20	WG426406
1,3-Dichlorobenzene	mg/kg	0.0413	0.0419	83.0	71-132	1.52	20	WG426406
1,3-Dichloropropane	mg/kg	0.0434	0.0411	87.0	76-120	5.37	20	WG426406
1,4-Dichlorobenzene	mg/kg	0.0401	0.0396	80.0	72-123	1.11	20	WG426406
2,2-Dichloropropane	mg/kg	0.0461	0.0466	92.0	50-147	1.16	20	WG426406
2-Butanone (MEK)	mg/kg	0.224	0.206	90.0	51-131	8.23	25	WG426406

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Quality Assurance Report  
Level II

Chaska, MN 55318

L406924

June 14, 2009

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
2-Chloroethyl vinyl ether	mg/kg	0.308	0.270	123.	0-188	13.4	39	WG426406
2-Chlorotoluene	mg/kg	0.0414	0.0429	83.0	73-128	3.47	20	WG426406
4-Chlorotoluene	mg/kg	0.0407	0.0416	81.0	72-129	2.19	20	WG426406
4-Methyl-2-pentanone (MIBK)	mg/kg	0.255	0.237	102.	61-143	7.39	23	WG426406
Acetone	mg/kg	0.261	0.259	105.	44-140	1.03	25	WG426406
Acrylonitrile	mg/kg	0.252	0.250	101.	55-143	1.17	20	WG426406
Benzene	mg/kg	0.0446	0.0448	89.0	65-128	0.521	20	WG426406
Bromobenzene	mg/kg	0.0434	0.0423	87.0	75-123	2.60	20	WG426406
Bromodichloromethane	mg/kg	0.0449	0.0444	90.0	66-126	0.982	20	WG426406
Bromoform	mg/kg	0.0485	0.0463	97.0	64-139	4.69	20	WG426406
Bromomethane	mg/kg	0.0425	0.0433	85.0	41-175	2.02	20	WG426406
Carbon tetrachloride	mg/kg	0.0435	0.0447	87.0	60-140	2.83	20	WG426406
Chlorobenzene	mg/kg	0.0419	0.0418	84.0	75-125	0.196	20	WG426406
Chlorodibromomethane	mg/kg	0.0440	0.0418	88.0	72-137	5.25	20	WG426406
Chloroethane	mg/kg	0.0429	0.0440	86.0	44-159	2.54	20	WG426406
Chloroform	mg/kg	0.0476	0.0483	95.0	63-123	1.54	20	WG426406
Chloromethane	mg/kg	0.0407	0.0424	81.0	42-149	4.01	20	WG426406
cis-1,2-Dichloroethene	mg/kg	0.0444	0.0455	89.0	71-129	2.60	20	WG426406
cis-1,3-Dichloropropene	mg/kg	0.0464	0.0450	93.0	73-132	3.07	20	WG426406
Di-isopropyl ether	mg/kg	0.0490	0.0489	98.0	59-143	0.0860	20	WG426406
Dibromomethane	mg/kg	0.0448	0.0444	90.0	70-130	0.893	20	WG426406
Dichlorodifluoromethane	mg/kg	0.0425	0.0465	85.0	26-186	9.00	22	WG426406
Ethylbenzene	mg/kg	0.0428	0.0435	86.0	74-128	1.66	20	WG426406
Hexachloro-1,3-butadiene	mg/kg	0.0403	0.0414	81.0	65-137	2.88	20	WG426406
Isopropylbenzene	mg/kg	0.0427	0.0443	85.0	73-130	3.76	20	WG426406
Methyl tert-butyl ether	mg/kg	0.0455	0.0446	91.0	44-148	2.05	20	WG426406
Methylene Chloride	mg/kg	0.0436	0.0443	87.0	57-129	1.68	20	WG426406
n-Butylbenzene	mg/kg	0.0414	0.0429	83.0	60-145	3.53	20	WG426406
n-Propylbenzene	mg/kg	0.0425	0.0435	85.0	71-132	2.36	20	WG426406
Naphthalene	mg/kg	0.0424	0.0418	85.0	61-142	1.36	20	WG426406
p-Isopropyltoluene	mg/kg	0.0416	0.0441	83.0	67-138	5.84	20	WG426406
sec-Butylbenzene	mg/kg	0.0415	0.0443	83.0	71-134	6.39	20	WG426406
Styrene	mg/kg	0.0446	0.0451	89.0	76-133	1.11	20	WG426406
tert-Butylbenzene	mg/kg	0.0413	0.0437	83.0	72-132	5.62	20	WG426406
Tetrachloroethene	mg/kg	0.0416	0.0426	83.0	65-135	2.60	20	WG426406
Toluene	mg/kg	0.0414	0.0417	83.0	70-120	0.704	20	WG426406
trans-1,2-Dichloroethene	mg/kg	0.0419	0.0441	84.0	61-133	5.09	20	WG426406
trans-1,3-Dichloropropene	mg/kg	0.0468	0.0448	94.0	70-135	4.37	20	WG426406
Trichloroethene	mg/kg	0.0412	0.0420	82.0	71-126	1.95	20	WG426406
Trichlorofluoromethane	mg/kg	0.0424	0.0459	85.0	52-147	7.89	20	WG426406
Vinyl chloride	mg/kg	0.0413	0.0436	83.0	50-151	5.47	20	WG426406
4-Bromofluorobenzene				102.5	59-140			WG426406
Dibromofluoromethane				102.0	63-139			WG426406
Toluene-d8				102.9	84-116			WG426406
a,a,a-Trifluorotoluene				102.2	80-118			WG426406

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
1,1,1,2-Tetrachloroethane	mg/kg	0.0419	0.00	.05	83.8	29-145	L406212-02	WG426200
1,1,1-Trichloroethane	mg/kg	0.0404	0.00	.05	80.8	23-147	L406212-02	WG426200
1,1,2,2-Tetrachloroethane	mg/kg	0.0382	0.00	.05	76.3	18-150	L406212-02	WG426200
1,1,2-Trichloroethane	mg/kg	0.0359	0.00	.05	71.9	35-140	L406212-02	WG426200
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0402	0.00	.05	80.3	10-145	L406212-02	WG426200
1,1-Dichloroethane	mg/kg	0.0408	0.00	.05	81.7	24-148	L406212-02	WG426200
1,1-Dichloroethene	mg/kg	0.0356	0.00	.05	71.2	10-149	L406212-02	WG426200
1,1-Dichloropropene	mg/kg	0.0377	0.00	.05	75.5	10-141	L406212-02	WG426200
1,2,3-Trichlorobenzene	mg/kg	0.0355	0.00	.05	71.0	10-129	L406212-02	WG426200
1,2,3-Trichloropropane	mg/kg	0.0369	0.00	.05	73.9	30-148	L406212-02	WG426200

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June 14, 2009

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
1,2,3-Trimethylbenzene	mg/kg	0.0383	0.00	.05	76.6	10-137	L406212-02	WG426200
1,2,4-Trichlorobenzene	mg/kg	0.0360	0.00	.05	72.0	10-119	L406212-02	WG426200
1,2,4-Trimethylbenzene	mg/kg	0.0404	0.00	.05	80.8	10-145	L406212-02	WG426200
1,2-Dibromo-3-Chloropropane	mg/kg	0.0333	0.00	.05	66.5	19-145	L406212-02	WG426200
1,2-Dibromoethane	mg/kg	0.0357	0.00	.05	71.5	24-145	L406212-02	WG426200
1,2-Dichlorobenzene	mg/kg	0.0372	0.00	.05	74.4	12-130	L406212-02	WG426200
1,2-Dichloroethane	mg/kg	0.0387	0.00	.05	77.4	21-155	L406212-02	WG426200
1,2-Dichloropropane	mg/kg	0.0387	0.00	.05	77.4	28-144	L406212-02	WG426200
1,3,5-Trimethylbenzene	mg/kg	0.0408	0.00	.05	81.7	10-135	L406212-02	WG426200
1,3-Dichlorobenzene	mg/kg	0.0389	0.00	.05	77.9	10-129	L406212-02	WG426200
1,3-Dichloropropane	mg/kg	0.0371	0.00	.05	74.1	31-137	L406212-02	WG426200
1,4-Dichlorobenzene	mg/kg	0.0364	0.00	.05	72.8	10-121	L406212-02	WG426200
2,2-Dichloropropane	mg/kg	0.0421	0.00	.05	84.2	18-144	L406212-02	WG426200
2-Butanone (MEK)	mg/kg	0.162	0.00	.25	64.9	21-143	L406212-02	WG426200
2-Chloroethyl vinyl ether	mg/kg	0.206	0.00	.25	82.4	0-176	L406212-02	WG426200
2-Chlorotoluene	mg/kg	0.0400	0.00	.05	79.9	10-132	L406212-02	WG426200
4-Chlorotoluene	mg/kg	0.0389	0.00	.05	77.8	10-129	L406212-02	WG426200
4-Methyl-2-pentanone (MIBK)	mg/kg	0.179	0.00	.25	71.6	31-151	L406212-02	WG426200
Acetone	mg/kg	0.197	0.00	.25	78.8	13-158	L406212-02	WG426200
Acrylonitrile	mg/kg	0.190	0.00	.25	76.1	20-154	L406212-02	WG426200
Benzene	mg/kg	0.0396	0.00	.05	79.2	16-143	L406212-02	WG426200
Bromobenzene	mg/kg	0.0398	0.00	.05	79.7	14-135	L406212-02	WG426200
Bromodichloromethane	mg/kg	0.0393	0.00	.05	78.5	27-139	L406212-02	WG426200
Bromoform	mg/kg	0.0403	0.00	.05	80.6	21-144	L406212-02	WG426200
Bromomethane	mg/kg	0.0369	0.00	.05	73.8	0-180	L406212-02	WG426200
Carbon tetrachloride	mg/kg	0.0376	0.00	.05	75.1	12-149	L406212-02	WG426200
Chlorobenzene	mg/kg	0.0386	0.00	.05	77.2	17-134	L406212-02	WG426200
Chlorodibromomethane	mg/kg	0.0381	0.00	.05	76.3	28-147	L406212-02	WG426200
Chloroethane	mg/kg	0.0375	0.00	.05	75.0	0-172	L406212-02	WG426200
Chloroform	mg/kg	0.0438	0.00	.05	87.7	28-138	L406212-02	WG426200
Chloromethane	mg/kg	0.0355	0.00	.05	71.1	10-158	L406212-02	WG426200
cis-1,2-Dichloroethene	mg/kg	0.0399	0.00	.05	79.7	21-147	L406212-02	WG426200
cis-1,3-Dichloropropene	mg/kg	0.0389	0.00	.05	77.8	17-145	L406212-02	WG426200
Di-isopropyl ether	mg/kg	0.0442	0.00	.05	88.3	31-153	L406212-02	WG426200
Dibromomethane	mg/kg	0.0361	0.00	.05	72.1	24-147	L406212-02	WG426200
Dichlorodifluoromethane	mg/kg	0.0364	0.00	.05	72.8	0-192	L406212-02	WG426200
Ethylbenzene	mg/kg	0.0401	0.00	.05	80.3	12-137	L406212-02	WG426200
Hexachloro-1,3-butadiene	mg/kg	0.0378	0.00	.05	75.6	10-123	L406212-02	WG426200
Isopropylbenzene	mg/kg	0.0405	0.00	.05	81.0	14-134	L406212-02	WG426200
Methyl tert-butyl ether	mg/kg	0.0390	0.00	.05	78.1	21-157	L406212-02	WG426200
Methylene Chloride	mg/kg	0.0374	0.00	.05	74.7	12-149	L406212-02	WG426200
n-Butylbenzene	mg/kg	0.0399	0.00	.05	79.9	10-130	L406212-02	WG426200
n-Propylbenzene	mg/kg	0.0403	0.00	.05	80.6	10-130	L406212-02	WG426200
Naphthalene	mg/kg	0.0341	0.00	.05	68.3	0-146	L406212-02	WG426200
p-Isopropyltoluene	mg/kg	0.0408	0.00	.05	81.6	10-131	L406212-02	WG426200
sec-Butylbenzene	mg/kg	0.0413	0.00	.05	82.7	10-134	L406212-02	WG426200
Styrene	mg/kg	0.0415	0.00	.05	83.1	10-140	L406212-02	WG426200
tert-Butylbenzene	mg/kg	0.0404	0.00	.05	80.7	11-137	L406212-02	WG426200
Tetrachloroethene	mg/kg	0.0374	0.00	.05	74.7	10-131	L406212-02	WG426200
Toluene	mg/kg	0.0357	0.00	.05	71.4	12-136	L406212-02	WG426200
trans-1,2-Dichloroethene	mg/kg	0.0370	0.00	.05	74.0	10-143	L406212-02	WG426200
trans-1,3-Dichloropropene	mg/kg	0.0381	0.00	.05	76.2	16-147	L406212-02	WG426200
Trichloroethene	mg/kg	0.0358	0.00	.05	71.6	10-155	L406212-02	WG426200
Trichlorofluoromethane	mg/kg	0.0385	0.00	.05	77.0	10-154	L406212-02	WG426200
Vinyl chloride	mg/kg	0.0360	0.00	.05	72.0	10-159	L406212-02	WG426200
4-Bromofluorobenzene					105.4	59-140		WG426200
Dibromofluoromethane					105.0	63-139		WG426200
Toluene-d8					99.13	84-116		WG426200
a,a,a-Trifluorotoluene					98.59	80-118		WG426200

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Quality Assurance Report  
Level II

Chaska, MN 55318

L406924

June 14, 2009

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
1,1,1,2-Tetrachloroethane	mg/kg	0.0400	0.00	.05	90.0	29-145	L406892-01	WG426406
1,1,1-Trichloroethane	mg/kg	0.0431	0.00	.05	86.2	23-147	L406892-01	WG426406
1,1,2,2-Tetrachloroethane	mg/kg	0.0357	0.00	.05	71.4	18-150	L406892-01	WG426406
1,1,2-Trichloroethane	mg/kg	0.0361	0.00	.05	72.2	35-140	L406892-01	WG426406
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0389	0.00	.05	77.8	10-145	L406892-01	WG426406
1,1-Dichloroethane	mg/kg	0.0439	0.00	.05	87.9	24-148	L406892-01	WG426406
1,1-Dichloroethane	mg/kg	0.0374	0.00	.05	74.8	10-149	L406892-01	WG426406
1,1-Dichloropropene	mg/kg	0.0392	0.00	.05	78.4	10-141	L406892-01	WG426406
1,2,3-Trichlorobenzene	mg/kg	0.0218	0.00	.05	43.7	10-129	L406892-01	WG426406
1,2,3-Trichloropropane	mg/kg	0.0367	0.00	.05	73.4	30-148	L406892-01	WG426406
1,2,3-Trimethylbenzene	mg/kg	0.0408	0.00	.05	81.5	10-137	L406892-01	WG426406
1,2,4-Trichlorobenzene	mg/kg	0.0252	0.00	.05	50.4	10-119	L406892-01	WG426406
1,2,4-Trimethylbenzene	mg/kg	0.0352	0.00	.05	70.4	10-145	L406892-01	WG426406
1,2-Dibromo-3-Chloropropane	mg/kg	0.0356	0.00	.05	71.3	19-145	L406892-01	WG426406
1,2-Dibromoethane	mg/kg	0.0355	0.00	.05	70.9	24-145	L406892-01	WG426406
1,2-Dichlorobenzene	mg/kg	0.0361	0.00	.05	72.1	12-130	L406892-01	WG426406
1,2-Dichloroethane	mg/kg	0.0413	0.00	.05	82.6	21-155	L406892-01	WG426406
1,2-Dichloropropane	mg/kg	0.0431	0.00	.05	86.2	28-144	L406892-01	WG426406
1,3,5-Trimethylbenzene	mg/kg	0.0366	0.00	.05	73.3	10-135	L406892-01	WG426406
1,3-Dichlorobenzene	mg/kg	0.0314	0.00	.05	62.7	10-129	L406892-01	WG426406
1,3-Dichloropropane	mg/kg	0.0378	0.00	.05	75.5	31-137	L406892-01	WG426406
1,4-Dichlorobenzene	mg/kg	0.0360	0.00	.05	72.0	10-121	L406892-01	WG426406
2,2-Dichloropropane	mg/kg	0.0429	0.00	.05	85.8	18-144	L406892-01	WG426406
2-Butanone (MEK)	mg/kg	0.178	0.00	.25	71.1	21-143	L406892-01	WG426406
2-Chloroethyl vinyl ether	mg/kg	0.227	0.00	.25	90.7	0-176	L406892-01	WG426406
2-Chlorotoluene	mg/kg	0.0360	0.00	.05	72.1	10-132	L406892-01	WG426406
4-Chlorotoluene	mg/kg	0.0343	0.00	.05	68.6	10-129	L406892-01	WG426406
4-Methyl-2-pentanone (MIBK)	mg/kg	0.203	0.00	.25	81.3	31-151	L406892-01	WG426406
Acetone	mg/kg	0.214	0.00	.25	85.5	13-158	L406892-01	WG426406
Acrylonitrile	mg/kg	0.204	0.00	.25	81.8	20-154	L406892-01	WG426406
Benzene	mg/kg	0.0422	0.00	.05	84.3	16-143	L406892-01	WG426406
Bromobenzene	mg/kg	0.0358	0.00	.05	71.6	14-135	L406892-01	WG426406
Bromodichloromethane	mg/kg	0.0421	0.00	.05	84.3	27-139	L406892-01	WG426406
Bromoform	mg/kg	0.0372	0.00	.05	74.4	21-144	L406892-01	WG426406
Bromomethane	mg/kg	0.0326	0.00	.05	65.2	0-180	L406892-01	WG426406
Carbon tetrachloride	mg/kg	0.0392	0.00	.05	78.5	12-149	L406892-01	WG426406
Chlorobenzene	mg/kg	0.0372	0.00	.05	74.4	17-134	L406892-01	WG426406
Chlorodibromomethane	mg/kg	0.0370	0.00	.05	74.0	28-147	L406892-01	WG426406
Chloroethane	mg/kg	0.0341	0.00	.05	68.1	0-172	L406892-01	WG426406
Chloroform	mg/kg	0.0456	0.00	.05	91.3	28-138	L406892-01	WG426406
Chloromethane	mg/kg	0.0301	0.00	.05	60.1	10-158	L406892-01	WG426406
cis-1,2-Dichloroethene	mg/kg	0.0419	0.00	.05	83.7	21-147	L406892-01	WG426406
cis-1,3-Dichloropropene	mg/kg	0.0406	0.00	.05	81.1	17-145	L406892-01	WG426406
Di-isopropyl ether	mg/kg	0.0488	0.00	.05	97.7	31-153	L406892-01	WG426406
Dibromomethane	mg/kg	0.0383	0.00	.05	76.7	24-147	L406892-01	WG426406
Dichlorodifluoromethane	mg/kg	0.0249	0.00	.05	49.8	0-192	L406892-01	WG426406
Ethylbenzene	mg/kg	0.0392	0.00	.05	78.4	12-137	L406892-01	WG426406
Hexachloro-1,3-butadiene	mg/kg	0.0241	0.00	.05	48.2	10-123	L406892-01	WG426406
Isopropylbenzene	mg/kg	0.0382	0.00	.05	76.4	14-134	L406892-01	WG426406
Methyl tert-butyl ether	mg/kg	0.0416	0.00	.05	83.2	21-157	L406892-01	WG426406
Methylene Chloride	mg/kg	0.0398	0.00	.05	79.5	12-149	L406892-01	WG426406
n-Butylbenzene	mg/kg	0.0366	0.00	.05	73.2	10-130	L406892-01	WG426406
n-Propylbenzene	mg/kg	0.0364	0.00	.05	72.8	10-130	L406892-01	WG426406
Naphthalene	mg/kg	0.0262	0.00	.05	52.4	0-146	L406892-01	WG426406
p-Isopropyltoluene	mg/kg	0.0341	0.00	.05	68.1	10-131	L406892-01	WG426406
sec-Butylbenzene	mg/kg	0.0340	0.00	.05	68.1	10-134	L406892-01	WG426406
Styrene	mg/kg	0.0386	0.00	.05	77.2	10-140	L406892-01	WG426406
tert-Butylbenzene	mg/kg	0.0352	0.00	.05	70.3	11-137	L406892-01	WG426406
Tetrachloroethane	mg/kg	0.0388	0.00230	.05	72.9	10-131	L406892-01	WG426406

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Quality Assurance Report  
Level II

Chaska, MN 55318

June 14, 2009

L406924

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Toluene	mg/kg	0.0381	0.00	.05	76.1	12-136	L406892-01	WG426406
trans-1,2-Dichloroethene	mg/kg	0.0383	0.00	.05	76.5	10-143	L406892-01	WG426406
trans-1,3-Dichloropropene	mg/kg	0.0408	0.00	.05	81.6	16-147	L406892-01	WG426406
Trichloroethene	mg/kg	0.0370	0.00	.05	73.9	10-155	L406892-01	WG426406
Trichlorofluoromethane	mg/kg	0.0341	0.00	.05	68.2	10-154	L406892-01	WG426406
Vinyl chloride	mg/kg	0.0306	0.00	.05	61.1	10-159	L406892-01	WG426406
4-Bromofluorobenzene					94.38	59-140		WG426406
Dibromofluoromethane					105.1	63-139		WG426406
Toluene-d8					103.2	84-116		WG426406
a,a,a-Trifluorotoluene					100.5	80-118		WG426406

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
1,1,1,2-Tetrachloroethane	mg/kg	0.0381	0.0419	76.2	29-145	9.40	31	L406212-02	WG426200
1,1,1-Trichloroethane	mg/kg	0.0378	0.0404	75.7	23-147	6.58	32	L406212-02	WG426200
1,1,2,2-Tetrachloroethane	mg/kg	0.0357	0.0382	71.3	18-150	6.75	33	L406212-02	WG426200
1,1,2-Trichloroethane	mg/kg	0.0354	0.0359	70.9	35-140	1.39	29	L406212-02	WG426200
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0359	0.0402	71.8	10-145	11.2	35	L406212-02	WG426200
1,1-Dichloroethane	mg/kg	0.0377	0.0408	75.3	24-148	8.09	31	L406212-02	WG426200
1,1-Dichloroethene	mg/kg	0.0328	0.0356	65.7	10-149	8.09	34	L406212-02	WG426200
1,1-Dichloropropene	mg/kg	0.0341	0.0377	68.3	10-141	9.97	34	L406212-02	WG426200
1,2,3-Trichlorobenzene	mg/kg	0.0343	0.0355	68.7	10-129	3.36	43	L406212-02	WG426200
1,2,3-Trichloropropane	mg/kg	0.0366	0.0369	73.1	30-148	0.982	32	L406212-02	WG426200
1,2,3-Trimethylbenzene	mg/kg	0.0356	0.0383	71.3	10-137	7.20	36	L406212-02	WG426200
1,2,4-Trichlorobenzene	mg/kg	0.0342	0.0360	68.3	10-119	5.19	44	L406212-02	WG426200
1,2,4-Trimethylbenzene	mg/kg	0.0355	0.0404	71.0	10-145	12.9	41	L406212-02	WG426200
1,2-Dibromo-3-Chloropropane	mg/kg	0.0343	0.0333	68.6	19-145	3.04	35	L406212-02	WG426200
1,2-Dibromoethane	mg/kg	0.0352	0.0357	70.5	24-145	1.40	31	L406212-02	WG426200
1,2-Dichlorobenzene	mg/kg	0.0353	0.0372	70.5	12-130	5.29	35	L406212-02	WG426200
1,2-Dichloroethane	mg/kg	0.0362	0.0387	72.4	21-155	6.78	29	L406212-02	WG426200
1,2-Dichloropropane	mg/kg	0.0378	0.0387	75.6	28-144	2.41	30	L406212-02	WG426200
1,3,5-Trimethylbenzene	mg/kg	0.0355	0.0408	71.1	10-135	13.9	39	L406212-02	WG426200
1,3-Dichlorobenzene	mg/kg	0.0345	0.0389	69.0	10-129	12.1	38	L406212-02	WG426200
1,3-Dichloropropane	mg/kg	0.0358	0.0371	71.5	31-137	3.55	29	L406212-02	WG426200
1,4-Dichlorobenzene	mg/kg	0.0351	0.0364	70.2	10-121	3.64	36	L406212-02	WG426200
2,2-Dichloropropane	mg/kg	0.0384	0.0421	76.8	18-144	9.25	32	L406212-02	WG426200
2-Butanone (MEK)	mg/kg	0.162	0.162	64.7	21-143	0.393	37	L406212-02	WG426200
2-Chloroethyl vinyl ether	mg/kg	0.233	0.206	93.1	0-176	12.3	50	L406212-02	WG426200
2-Chlorotoluene	mg/kg	0.0349	0.0400	69.9	10-132	13.4	37	L406212-02	WG426200
4-Chlorotoluene	mg/kg	0.0346	0.0389	69.1	10-129	11.8	38	L406212-02	WG426200
4-Methyl-2-pentanone (MIBK)	mg/kg	0.189	0.179	75.7	31-151	5.53	36	L406212-02	WG426200
Acetone	mg/kg	0.176	0.197	70.5	13-158	11.1	34	L406212-02	WG426200
Acrylonitrile	mg/kg	0.178	0.190	71.2	20-154	6.70	35	L406212-02	WG426200
Benzene	mg/kg	0.0364	0.0396	72.8	16-143	8.47	31	L406212-02	WG426200
Bromobenzene	mg/kg	0.0358	0.0398	71.6	14-135	10.7	39	L406212-02	WG426200
Bromodichloromethane	mg/kg	0.0374	0.0393	74.7	27-139	4.93	30	L406212-02	WG426200
Bromoform	mg/kg	0.0387	0.0403	77.4	21-144	3.99	34	L406212-02	WG426200
Bromomethane	mg/kg	0.0350	0.0369	70.1	0-180	5.20	41	L406212-02	WG426200
Carbon tetrachloride	mg/kg	0.0340	0.0376	68.0	12-149	10.0	34	L406212-02	WG426200
Chlorobenzene	mg/kg	0.0354	0.0386	70.9	17-134	8.56	34	L406212-02	WG426200
Chlorodibromomethane	mg/kg	0.0366	0.0381	73.2	28-147	4.12	32	L406212-02	WG426200
Chloroethane	mg/kg	0.0352	0.0375	70.4	0-172	6.42	38	L406212-02	WG426200
Chloroform	mg/kg	0.0402	0.0438	80.4	28-138	8.67	30	L406212-02	WG426200
Chloromethane	mg/kg	0.0332	0.0355	66.3	10-158	6.93	35	L406212-02	WG426200
cis-1,2-Dichloroethene	mg/kg	0.0369	0.0399	73.9	21-147	7.64	31	L406212-02	WG426200
cis-1,3-Dichloropropene	mg/kg	0.0378	0.0389	75.6	17-145	2.85	32	L406212-02	WG426200
Di-isopropyl ether	mg/kg	0.0408	0.0442	81.7	31-153	7.83	29	L406212-02	WG426200
Dibromomethane	mg/kg	0.0351	0.0361	70.2	24-147	2.77	30	L406212-02	WG426200

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Quality Assurance Report  
Level II

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June 14, 2009

L406924

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Dichlorodifluoromethane	mg/kg	0.0332	0.0364	66.3	0-192	9.31	38	L406212-02	WG426200
Ethylbenzene	mg/kg	0.0371	0.0401	74.2	12-137	7.88	36	L406212-02	WG426200
Hexachloro-1,3-butadiene	mg/kg	0.0331	0.0378	66.1	10-123	13.3	50	L406212-02	WG426200
Isopropylbenzene	mg/kg	0.0367	0.0405	73.3	14-134	10.0	37	L406212-02	WG426200
Methyl tert-butyl ether	mg/kg	0.0362	0.0390	72.4	21-157	7.54	31	L406212-02	WG426200
Methylene Chloride	mg/kg	0.0344	0.0374	68.9	12-149	8.18	31	L406212-02	WG426200
n-Butylbenzene	mg/kg	0.0357	0.0399	71.5	10-130	11.1	48	L406212-02	WG426200
n-Propylbenzene	mg/kg	0.0358	0.0403	71.6	10-130	11.9	40	L406212-02	WG426200
Naphthalene	mg/kg	0.0345	0.0341	69.1	0-146	1.14	43	L406212-02	WG426200
p-Isopropyltoluene	mg/kg	0.0353	0.0408	70.5	10-131	14.5	43	L406212-02	WG426200
sec-Butylbenzene	mg/kg	0.0350	0.0413	70.1	10-134	16.5	43	L406212-02	WG426200
Styrene	mg/kg	0.0376	0.0415	75.3	10-140	9.86	35	L406212-02	WG426200
tert-Butylbenzene	mg/kg	0.0355	0.0404	71.0	11-137	12.8	39	L406212-02	WG426200
Tetrachloroethene	mg/kg	0.0343	0.0374	68.6	10-131	8.52	35	L406212-02	WG426200
Toluene	mg/kg	0.0352	0.0357	70.4	12-136	1.54	32	L406212-02	WG426200
trans-1,2-Dichloroethene	mg/kg	0.0336	0.0370	67.2	10-143	9.66	33	L406212-02	WG426200
trans-1,3-Dichloropropene	mg/kg	0.0380	0.0381	76.1	16-147	0.146	32	L406212-02	WG426200
Trichloroethene	mg/kg	0.0334	0.0358	66.8	10-155	6.98	33	L406212-02	WG426200
Trichlorofluoromethane	mg/kg	0.0344	0.0385	68.9	10-154	11.2	32	L406212-02	WG426200
Vinyl chloride	mg/kg	0.0314	0.0360	62.8	10-159	13.7	36	L406212-02	WG426200
4-Bromofluorobenzene				100.4	59-140				WG426200
Dibromofluorobenzene				103.6	63-139				WG426200
Toluene-d8				103.7	84-116				WG426200
a,a,a-Trifluorotoluene				103.2	80-118				WG426200
1,1,1,2-Tetrachloroethane	mg/kg	0.0409	0.0400	81.7	29-145	2.09	31	L406892-01	WG426406
1,1,1-Trichloroethane	mg/kg	0.0419	0.0431	83.7	23-147	2.93	32	L406892-01	WG426406
1,1,2,2-Tetrachloroethane	mg/kg	0.0367	0.0357	73.4	18-150	2.83	33	L406892-01	WG426406
1,1,2-Trichloroethane	mg/kg	0.0383	0.0361	76.7	35-140	6.05	29	L406892-01	WG426406
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0405	0.0389	80.9	10-145	3.91	35	L406892-01	WG426406
1,1-Dichloroethane	mg/kg	0.0421	0.0439	84.3	24-148	4.22	31	L406892-01	WG426406
1,1-Dichloroethene	mg/kg	0.0375	0.0374	75.1	10-149	0.364	34	L406892-01	WG426406
1,1-Dichloropropene	mg/kg	0.0381	0.0392	76.1	10-141	2.99	34	L406892-01	WG426406
1,2,3-Trichlorobenzene	mg/kg	0.0221	0.0218	44.1	10-129	1.05	43	L406892-01	WG426406
1,2,3-Trichloropropene	mg/kg	0.0383	0.0367	76.6	30-148	4.26	32	L406892-01	WG426406
1,2,3-Trimethylbenzene	mg/kg	0.0406	0.0408	81.2	10-137	0.372	36	L406892-01	WG426406
1,2,4-Trichlorobenzene	mg/kg	0.0240	0.0252	48.1	10-119	4.63	44	L406892-01	WG426406
1,2,4-Trimethylbenzene	mg/kg	0.0342	0.0352	68.4	10-145	2.87	41	L406892-01	WG426406
1,2-Dibromo-3-Chloropropane	mg/kg	0.0386	0.0356	77.2	19-145	7.95	35	L406892-01	WG426406
1,2-Dibromoethane	mg/kg	0.0374	0.0355	74.8	24-145	5.32	31	L406892-01	WG426406
1,2-Dichlorobenzene	mg/kg	0.0366	0.0361	73.1	12-130	1.38	35	L406892-01	WG426406
1,2-Dichloroethane	mg/kg	0.0408	0.0413	81.7	21-155	1.13	29	L406892-01	WG426406
1,2-Dichloropropane	mg/kg	0.0420	0.0431	84.1	28-144	2.53	30	L406892-01	WG426406
1,3,5-Trimethylbenzene	mg/kg	0.0360	0.0366	72.1	10-135	1.61	39	L406892-01	WG426406
1,3-Dichlorobenzene	mg/kg	0.0316	0.0314	63.2	10-129	0.779	38	L406892-01	WG426406
1,3-Dichloropropane	mg/kg	0.0387	0.0378	77.4	31-137	2.41	29	L406892-01	WG426406
1,4-Dichlorobenzene	mg/kg	0.0366	0.0360	73.1	10-121	1.56	36	L406892-01	WG426406
2,2-Dichloropropane	mg/kg	0.0416	0.0429	83.2	18-144	3.04	32	L406892-01	WG426406
2-Butanone (MEK)	mg/kg	0.182	0.178	72.9	21-143	2.53	37	L406892-01	WG426406
2-Chloroethyl vinyl ether	mg/kg	0.258	0.227	103.	0-176	13.0	50	L406892-01	WG426406
2-Chlorotoluene	mg/kg	0.0357	0.0360	71.4	10-132	0.982	37	L406892-01	WG426406
4-Chlorotoluene	mg/kg	0.0344	0.0343	68.7	10-129	0.176	38	L406892-01	WG426406
4-Methyl-2-pentanone (MIBK)	mg/kg	0.208	0.203	83.0	31-151	2.14	36	L406892-01	WG426406
Acetone	mg/kg	0.204	0.214	81.7	13-158	4.54	34	L406892-01	WG426406
Acrylonitrile	mg/kg	0.204	0.204	81.6	20-154	0.290	35	L406892-01	WG426406
Benzene	mg/kg	0.0407	0.0422	81.5	16-143	3.40	31	L406892-01	WG426406
Bromobenzene	mg/kg	0.0359	0.0358	71.9	14-135	0.345	39	L406892-01	WG426406
Bromodichloromethane	mg/kg	0.0418	0.0421	83.5	27-139	0.923	30	L406892-01	WG426406

\* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



ENVIRONMENTAL  
SCIENCE CORP.

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Mt. Juliet, TN 37122  
(615) 758-5858  
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Nova Consulting Group  
Eric Halpaus  
1107 Hazeltine Blvd, Ste 400

Quality Assurance Report  
Level II

Chaska, MN 55318

June 14, 2009

L406924

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Bromoform	mg/kg	0.0392	0.0372	78.4	21-144	5.15	34	L406892-01	WG426406
Bromomethane	mg/kg	0.0317	0.0326	63.4	0-180	2.79	41	L406892-01	WG426406
Carbon tetrachloride	mg/kg	0.0392	0.0392	78.4	12-149	0.111	34	L406892-01	WG426406
Chlorobenzene	mg/kg	0.0382	0.0372	76.5	17-134	2.78	34	L406892-01	WG426406
Chlorodibromomethane	mg/kg	0.0392	0.0370	78.4	28-147	5.76	32	L406892-01	WG426406
Chloroethane	mg/kg	0.0337	0.0341	67.4	0-172	1.14	38	L406892-01	WG426406
Chloroform	mg/kg	0.0457	0.0456	91.5	28-138	0.217	30	L406892-01	WG426406
Chloromethane	mg/kg	0.0288	0.0301	57.6	10-158	4.30	35	L406892-01	WG426406
cis-1,2-Dichloroethene	mg/kg	0.0418	0.0419	83.7	21-147	0.102	31	L406892-01	WG426406
cis-1,3-Dichloropropene	mg/kg	0.0416	0.0406	83.2	17-145	2.53	32	L406892-01	WG426406
Di-isopropyl ether	mg/kg	0.0471	0.0488	94.2	31-153	3.62	29	L406892-01	WG426406
Dibromomethane	mg/kg	0.0391	0.0383	78.2	24-147	1.96	30	L406892-01	WG426406
Dichlorodifluoromethane	mg/kg	0.0233	0.0249	46.7	0-192	6.49	38	L406892-01	WG426406
Ethylbenzene	mg/kg	0.0398	0.0392	79.5	12-137	1.42	36	L406892-01	WG426406
Hexachloro-1,3-butadiene	mg/kg	0.0222	0.0241	44.3	10-123	8.46	50	L406892-01	WG426406
Isopropylbenzene	mg/kg	0.0382	0.0382	76.4	14-134	0.002	37	L406892-01	WG426406
Methyl tert-butyl ether	mg/kg	0.0417	0.0416	83.4	21-157	0.164	31	L406892-01	WG426406
Methylene Chloride	mg/kg	0.0388	0.0398	77.7	12-149	2.39	31	L406892-01	WG426406
n-Butylbenzene	mg/kg	0.0356	0.0366	71.2	10-130	2.78	48	L406892-01	WG426406
n-Propylbenzene	mg/kg	0.0361	0.0364	72.3	10-130	0.726	40	L406892-01	WG426406
Naphthalene	mg/kg	0.0271	0.0262	54.2	0-146	3.42	43	L406892-01	WG426406
p-Isopropyltoluene	mg/kg	0.0334	0.0341	66.9	10-131	1.88	43	L406892-01	WG426406
sec-Butylbenzene	mg/kg	0.0332	0.0340	66.4	10-134	2.42	43	L406892-01	WG426406
Styrene	mg/kg	0.0396	0.0386	79.1	10-140	2.37	35	L406892-01	WG426406
tert-Butylbenzene	mg/kg	0.0353	0.0352	70.5	11-137	0.285	39	L406892-01	WG426406
Tetrachloroethene	mg/kg	0.0400	0.0388	75.4	10-131	3.12	35	L406892-01	WG426406
Toluene	mg/kg	0.0383	0.0381	76.5	12-136	0.530	32	L406892-01	WG426406
trans-1,2-Dichloroethene	mg/kg	0.0373	0.0383	74.6	10-143	2.57	33	L406892-01	WG426406
trans-1,3-Dichloropropene	mg/kg	0.0412	0.0408	82.5	16-147	1.10	32	L406892-01	WG426406
Trichloroethene	mg/kg	0.0371	0.0370	74.2	10-155	0.441	33	L406892-01	WG426406
Trichlorofluoromethane	mg/kg	0.0332	0.0341	66.4	10-154	2.65	32	L406892-01	WG426406
Vinyl chloride	mg/kg	0.0289	0.0306	57.7	10-159	5.76	36	L406892-01	WG426406
1-Bromofluorobenzene				95.11	59-140				WG426406
Dibromofluoromethane				102.5	63-139				WG426406
Toluene-d8				103.0	84-116				WG426406
a,a,a-Trifluorotoluene				101.5	80-118				WG426406

Batch number / Run number / Sample number cross reference

WG426200: R780594: L406924-01 02 03  
WG426112: R780927: L406924-01 02 03 04 05  
WG426182: R781086: L406924-03 04 05  
WG426406: R781646: L406924-04 05

\* \* Calculations are performed prior to rounding of reported values.  
\* Performance of this Analyte is outside of established criteria.  
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Nova Consulting Group  
Eric Halpaus  
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Chaska, MN 55318

Quality Assurance Report  
Level II

L406924

June 14, 2009

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

# Nova Consulting Group

1107 Hazeltine Blvd, Ste 400  
Chaska, MN 55318

Report to: Eric Halpaus

Email: eric.halpaus@novaconsultin

Project Description: Sunny Piedmont Cleaners, Oakland, CA

City/State Collected: Piedmont, CA

Phone: (952) 448-9393  
FAX: (952) 448-9572

Client Project #: FOY-1836  
Lab Project #: NOYCONCMN-OAKLAN

Collected by (print): Eric Halpaus

Site/Facility ID#: OAKLAND, CA

Collected by (signature): *[Signature]*

P.O.#:

RUSH? (Lab MUST Be Notified)  
 \_\_\_ Same Day ..... 200%  
 \_\_\_ Next Day ..... 100%  
 \_\_\_ Two Day ..... 50%  
 \_\_\_ Three Day ..... 25%

Date Results Needed: 6/16 - AM  
 Email? \_\_\_ No \_\_\_ Yes  
 FAX? \_\_\_ No \_\_\_ Yes

Immediately Packed on Ice N \_\_\_ Y \_\_\_

No. of Chtrs: 6

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time
GP-1	GRAB	SS	20'	6/9	12PM
GP-2		SS	20'		1PM
HAB-1		SS	4'		2PM
HAB-2		SS	4'		2:45PM
HAB-3		SS	4'		5PM
		SS			
		GW			
		GW			
		GW			

\*Matrix: SS - Soil GW - Groundwater WW - Waste Water DW - Drinking Water OT - Other

Remarks:

Quote # NOYCONCMN0601095

966974556582

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date: 6/9/09

Date: 6/9/09

Date: 6/10/09

Received by: (Signature)

Received by: (Signature)

Received for Lab by (Signature)

Time: 6PM

Time: 8:15

Time: 8:00

Samples returned via:  UPS  FedEx  Courier

Temp: 83

Date: 6.10.09

Bottles Received: 28

Seal Intact:  Y  N  NA

pH Checked:  Y  N  NA

Analysis/Container/Preservative

O2 40zCr-NPRES

TS 20zCr-NPRES

V8260 40ml/NaHSO4/S/MeOH

V8260 40ml/amb-HCl

Volatile Screen 20zCr-NPRES

Remarks/Contaminant	Sample # (lab only)
	140892401
	62
	03
	04
	05

Account: NOYCONCMN  
 Template/Person: T58488/P285688  
 Cooler #: 250319  
 Shipped Via: FedEx 2nd Day

Prepared by:



12065 Lebanon Road  
Mt. Juliet, TN 37122  
Phone (800) 767-5859  
FAX (615) 758-5850  
C017

Chain of Custody  
Page \_\_\_ of \_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Janet Caldwell

L 406924

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**From:** Jason Romer  
**Sent:** Wednesday, June 10, 2009 5:19 PM  
**To:** John V. Hawkins; Login; Alan Harvill; Andy Vann; Reporting  
**Subject:** RE: Oakland Project NOVCONMN

Reporting - scan email to CoC

---

**From:** John V. Hawkins  
**Sent:** Wednesday, June 10, 2009 5:18 PM  
**To:** Login; Alan Harvill; Andy Vann  
**Subject:** FW: Oakland Project NOVCONMN

Please scan email to COC.

Thanks

John

---

**From:** Eric Halpaus [mailto:Eric.Halpaus@novaconsulting.com]  
**Sent:** Wednesday, June 10, 2009 9:18 AM  
**To:** John V. Hawkins  
**Subject:** Oakland Project

Good Morning John,

You should be getting the cooler for our Oakland project today. Please let me know when it arrives. I had some problems with the labeling on the cooler so it was shipped out by fed ex yesterday rather than Monday. I checked a cooler at the airport with extra soil just in case.

Thanks



**Eric Halpaus**  
GEOProbe Services / Geologist  
Nova Consulting Group, Inc.

6/10/2009

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6/10/2009