02-17-552037

CORRECTIVE ACTION REPORT FOR
NORGE VILLAGE CLEANERS
821 EAST MAIN STREET
MENOMONIE, WISCONSIN

November 2013

PREPARED FOR:

Dennis & Deborah Bodoh
Norge Village Cleaners
821 E. Main Street
Menomonie, WI 54751

PREPARED BY:

Cedar Corporation
604 Wilson Avenue
Menomonie, WI 54751

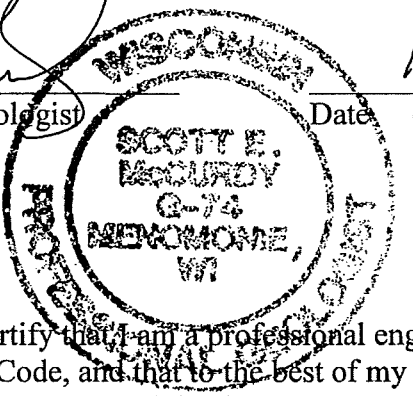
Project #N4610-002

SIGNATURE PAGE FOR

Corrective Action Report
Norge Village Cleaners
821 East Main Street
Menomonie, Wisconsin

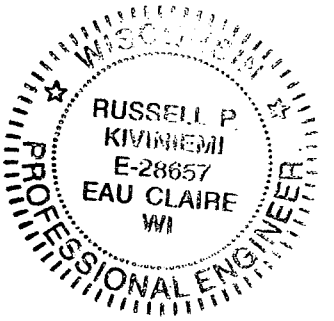
I, Scott E. McCurdy, hereby certify that I am a hydrogeologist as that term is defined in s. NR712.03 (1) Wis. Adm. Code, and that to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Scott E. McCurdy, Hydrogeologist — Date: 11/26/2013



I, Russ Kiviniemi, hereby certify that I am a professional engineer as that term is defined in s. NR712.03 (2) Wis. Adm. Code, and that to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Russell P. Kiviniemi, PE — Date: 11/26/2013
PE No. 28657



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I. INTRODUCTION

Cedar Corporation, on behalf of Norge Village Cleaners, has overseen the completion of a Corrective Action at the 821 E. Main Street, Menomonie, WI dry cleaning facility. The CA was completed in accordance with Wis. Admin. Code NR 700 and NR 169.

Site:	821 E. Main Street, Menomonie, WI 54751 BRRTS #02-17-552037
Legal Description:	Lot 3 of Block 89 of the Original Plat of the City of Menomonie
County PIN #:	1725122813264200031
Zoning:	B1 - General Commercial District
Contact:	Denny & Deborah Bodoh N3461 630th Street Menomonie, WI 54751 Phone: 715-235-5900
Consultant Contact:	Cedar Corporation Contact: Scott McCurdy 604 Wilson Avenue Menomonie, WI 54751 715-235-9081
Regulatory Representative:	Patrick Collins Wisconsin Department of Natural Resources (WDNR) 890 Spruce Street Baldwin, WI 54002 715-684-2914, Ext. 117
Excavation Contractor:	DKS Construction Services 2520 Wilson Street Menomonie, WI 54751 715-235-4448
Remediation System Contractor:	Midwest Recovery Systems, Inc. 6324 Hodgson Road Circle Pine, MN 55014 651-490-3349
Waste Disposal Contractor:	Advanced Disposal Seven Mile Creek Landfill 8001 Olson Drive Eau Claire, WI 54703 715-830-0284

Village Cleaners has completed a corrective action to address a PERC (tetrachloroethylene) contamination of soils at their location in Menomonie, WI. The corrective action consists of:

1. Removal of a "hot spot" of near surface impacted soils (71.01 tons).

2. Installation of a SVE (soil vapor extraction) system.

This report documents the excavation of the contaminated soil, installation of the SVE system, and the proposed operations of the SVE system.

II. SCOPE OF WORK

A. Summary of Work

1) Install SVE vents to address the contamination and conduct a pilot test to size the SVE blower.

2) Saw cut the existing asphalt parking lot for removal of impacted soils in the area of highest concentration of contamination and saw cut the trench for the SVE lateral piping.

3) Excavate to four feet below surface to remove 71.01 tons of readily accessible PERC impacted soils.

4) Collect soil samples from the sides and base of the contaminated soil excavation area. The intent of this sampling is to document the presence of post-excavation residual contamination. All samples were laboratory analyzed for VOC using analytical procedure SW-846 - 8260.

5) Install individual laterals to six soil vents leading to a single location for connection to a manifold and a negative pressure blower.

6) Collapse a cistern located 10 feet below grade.

7) Remove a 560 gallon PERC storage tank and conduct a Tank System Site Assessment.

8) Backfill and compact the excavation area, SVE lateral trench, PERC tank bed, and cistern bed.

9) Place an impervious surface (asphalt) over the excavation and trench areas to increase the effectiveness of the soil vapor removal action.

10) Install a PVC manifold and VFD controlled vapor extraction device (New York Blower Model 1703) with a vertical discharge stack. Install suitable monitoring devices (pitot tube with Magnehelic pressure gauge and thermometer) to provide accurate air emission data.

III. PROJECT SCHEDULE

May 2013	WDNR Approval of formal Proposed Remedial Action (RAP)
May - August 2013	Prepare Plans and Specifications
August 2013	Install Vapor Extraction Vent V-1
August 2013	Conduct Soil Vapor Extraction Pilot Test
	WDNR Approval of Plans and Specifications
October 2013	Install Vapor Extraction Vents
	Conduct Contaminated Soil Excavation
	Install Vapor Extraction Laterals
	Install Impervious Cap on SVE Affected Area
November 2013	Install and Commence Operation of SVE Mechanical Equipment

IV. REMEDIATION PROCEDURES

Cedar Corporation provided a low cost estimate to conduct the work and entered into an Agent Agreement with Village Cleaners prior to initiating the work.

During all phases of work at the site, Cedar Corporation personnel were present to provide project coordination, construction management, and maintain a photographic record of all activities.

On August 26, 2013, Geiss Soils and Samples, Inc. started the project with the installation of soil vent V-1.

On August 28, 2013, Cedar Corporation conducted a soil vapor extraction pilot test by temporarily installing a 1/3 horsepower regenerative blower at vent V-1 and monitoring discharge emissions for: standard cubic feet per minute, photoionization concentration, and VOC concentration by TO-15 sampling and analysis. The results are summarized in Appendix C.

On September 9, 2013, pre-remedial action implementation ground water monitoring was completed.

On October 10, 2013, soil vapor extraction vents V-2, V-3, V-4, and V-5 were installed using a Geoprobe®.

On October 16, 2013, excavation of 71.01 tons of contaminated sandy soil was completed. Plan Sheet 2 outlines the excavation area and depths. The excavated material was transported to the Advanced Disposal, Seven Mile Creek Landfill for disposal. Disposal documentation is provided in Appendix C. After the excavation of soil was completed, the excavation was backfilled with pea gravel.

By October 18, 2013, the installation of SVE laterals was completed and the site backfilled and prepped for resurfacing which took place on October 23, 2013.

The SVE electrical and mechanical systems were installed November 22 and SVE operations commenced on November 25, 2013. A Summa canister sample was collected on November 25 for TO-15 analysis and the emission from the discharge stack (insulated and jacketed 4 inch diameter Schedule 80 PVC) was measured at 205 ppm with a Photo Ionization Detector.

V. REMEDIATION ACTIVITIES

A. Soil Vent Construction

Six soil vents are installed at Village Cleaners. Vents V-1, V-2, V-3, V-4, and V-5 are vertical vents set to varying depths as described in Table 1 and shown on Plan Sheet 3. Vent V-6 is a horizontal vent set four feet below surface and installed through the foundation wall in the soils under the building floor slab where the former PERC based dry cleaning system was located.

The vertical vents were installed using a Geoprobe® hydraulic soil probe equipped to install two inch diameter monitoring wells. Each vent was constructed per Wis. Admin. Code NR 141 with slotted screens encased in clean coarse filter pack, well seals above the filter pack, and bentonite chips (3/8 inch) gravity fed to fill the vent annulus. At surface the vent is capped with a well casing plug and protected with a steel flush mount cover. Each two inch diameter vent was installed with a "T" to allow subsurface connection with a SVE lateral.

Documentation of the vertical soil vent construction is presented in Appendix D. Vent V-6 was constructed on October 17, 2013 by first coring a six inch diameter hole through the foundation block wall, then using a soil auger, constructing a vent borehole horizontally under the building floor slab. A standard PVC screen was inserted into the boring and the materials (sand) allowed to collapse around

the screen. A two inch diameter well casing extended through the foundation wall and was connected to a SVE lateral. Expanding urethane spray foam was installed in the annulus of the core hole around the vent casing to seal the foundation access.

Table 1. SVE Vent Construction

Vent	Attitude	Total Depth	Screen Length	Sampled
V-1	V	55	40	No
V-2	V	20	5	Yes
V-3	V	20	5	Yes
V-4	V	50	10	Yes
V-5	V	20	5	Yes
V-6	H	4	3	Yes

B. Soil Excavation

Soils contaminated with tetrachloroethylene above certain concentrations are banned from land disposal facilities. Prior to the excavation effort, samples of the soil proposed for disposal were collected and analyzed for VOC and TCLP VOC. A waste profile was prepared and submitted to the waste disposal facility for review and approval and a review and approval for landfill disposal requested from the WDNR. All disposal documentation is included in Appendix E.

Activities commenced Monday afternoon on October 14th with 250 feet of saw cutting the existing asphalt to provide access to the subsurface to conduct excavation and trenching as needed and documented on Plan Sheet 1. Previous investigation activities identified areas of higher contamination at relatively shallow depth in soil borings B-1, B-5, and B-6. To ensure compliance with potential direct contact issues, the soils in this area were excavated to a depth of four feet below surface in an area approximately 20 feet square. Some 59.3 cubic yards (71.01 tons) were removed from this location for disposal.

Once the contaminated soil was removed at the excavation site, the excavator removed the saw cut asphalt from the SVE lateral trench. During this removal process an underground storage tank fill pipe was uncovered some 20 feet north of the excavation. Upon further inspection an underground storage tank was determined present and a UST removal and Tank System Site Assessment were completed. The tank had a capacity of 560 gallons and appeared to be sound, but soil samples collected as part of the UST TSSA indicate spills or leaks occurred at the tank site. Tank removal documentation is included in Appendix E.

C. Soil Vapor Extraction System

The SVE system utilizes a 2.0 horsepower direct coupled 17 inch diameter New York Blower (Model 1703A). This VFD (variable frequency drive) controlled blower will draw 250 cubic feet per minute through the soil vents. The VFD acts as the motor controller and allows fine motor control to provide operational variability and air flow adjustment as needed.

The SVE blower discharge stack is 20 feet above ground surface. The exhaust is unimpeded. The discharge is monitored using a pitot tube connected to a Magnehelic air pressure gauge, a discharge thermometer, and an air velocity gauge. The vacuum side of the blower is connected to a PVC manifold that is connected to each soil vent. Each soil vent has two valves before the manifold to allow independent operation of each vent. Setting the valve positions provides the operator the ability establish one of three conditions for each soil vent:

SVE - Off - Both valves closed.
SVE - On - Manifold valve open; fresh air valve closed.
Fresh Air - Open - Manifold valve closed; fresh air valve open.

The system elements are noted on Plan Sheet 1.

The valves can be operated in partially open/closed position providing a broad range of operating scenarios. Setting one or more of the vents to Fresh Air Open allows fresh air to be drawn into the subsurface by the SVE system. This approach allows one to pull the soil pore vapor in vertical and horizontal directions.

Removal of high concentrations of PERC will likely be attained by operating the system with fresh air infiltrating from deeper depths by using V-1 and/or V-5 as air inlets. This approach limits the downward progression of the contaminants as well as volatilizes contaminants present in the soil pores for discharge. Alternate operating scenarios will be prepared as air sampling results assess the quality of the emission.

D. Soil Contamination

Soil contamination results are presented in plan (Plan Sheet 2) and profile (Plan Sheet 3). These drawings provide the base concentration of the PERC at the point of beginning of the SVE system. Operation of the system will provide long term benefits for soil clean up, reductions in ground water impacts, and address any volatile compound impacts under the building floor slab. Table 2 documents all soil impacts observed through the investigation and corrective action activities at this site. Recent analytical reports are included in Appendix G.

Contaminant mass calculations are completed to assist in understanding the extent of the contaminant mass and provide a measuring point for the success of the remedial action plan. The contaminant mass is calculated by multiplying the total yards of contaminated soil by 1.4 tons per yard, then multiplying by 2,000 pounds per ton. This value is then divided by 1,000,000 and multiplied by the contaminant concentration in parts per million. The following is an example for a contaminant found in the unsaturated zone soil.

$$\frac{5{,}559 \text{ yd.}^3 * 1.4 * 2000}{1{,}000{,}000} * 2{,}384 \text{ (contaminant ppm)} = 1{,}035 \text{ pounds contaminant}$$

The assumptions in this calculation are:

1. The soil weight is 2800 lbs./cubic yard.

2. The contaminant result is obtained by averaging each laboratory reported contaminant result in the area of contamination. This assumes each contaminant concentration represents an equal volume of contaminated soil. For those soil results having a less than value reported by the laboratory, a value of 50% of the reported concentration is used.

The mass of tetrachloroethylene has been calculated based on the available data and presented in Table 5. The area of the contamination is estimated to be 25 feet wide and 75 feet long with a depth extent of 55 feet. Using these assumptions (as observed on Plan Sheet 3), a total of 5,559 cubic yards of soil is impacted. The contaminated volume was divided into four sections including the "Excavation, Stormwater Drain Pipe, Perc Tank, and Balance of the Site". Using the known soil contaminant concentrations (varying from 0.7 to 6.91 ppm for each sector) a total of 12.4 pounds of PERC is calculated to present at the beginning of the corrective action; 1.1 pounds was removed by excavation, leaving 11.3 pounds of PERC to be removed by soil vapor extraction.

E. Groundwater

Groundwater migration is northward towards Lake Menomin. Groundwater elevations are presented in Table 3. A hydrograph included on Table 3 shows that the variations in groundwater elevation at the site are relatively uniform. Groundwater drops almost 12 feet in elevation from the point beneath Village Cleaners (MW-1: 826.06) and the intersection with the Lake Menomin (814.2 - pool elevation), a distance of about 400 feet, with a calculated hydraulic gradient of 12/400 = 0.03. Plan Sheet 4 presents a groundwater flow map from which it has been determined that the hydraulic gradient varies across this area but has a stable flow direction.

Groundwater chemistry is documented in Table 4 and recent tetrachloroethylene results are presented on Plan Sheet 4. Recent groundwater analytical reports are included in Appendix H. The contaminant plume is presented as an overlay of the groundwater elevation contours. Given the high hydraulic gradient, a long narrow contaminant plume is present. The plume is open ended and is believed to enter Lake Menomin.

VI. LONG TERM MONITORING

The monitoring objective is to characterize groundwater conditions in the monitoring wells during the active extraction of soil vapor and to characterize the VOC content of the air emissions to determine the operation of the system is in compliance with Federal and State regulations for the air emissions of VOC (in this case tetrachloroethylene).

Analytical methods were selected on the basis of ability to detect the contaminants at low levels. Data will be used to assess the effects of this operation on air and groundwater quality.

A. Groundwater Wells

The approximate locations of the wells are shown on Plan Sheet 4. Six monitoring wells will be sampled. All wells are 2-inch PVC NR 141 compliant with locked protective casings and are constructed as flush mounts. The following well depth measurements are from the top of 2-inch casing (not ground surface).

Well #	Wisconsin Unique Well ID	Well Casing Elevation	Well Depth	Depth to Water
MW-1	VW 856	878.74	63'	53'
MW-2	VW 850	879.38	62.55'	51.5'
MW-3	VW 851	877.30	61.6'	52.5'
MW-4	VW 852	877.46	67.1'	56.2'
MW-5	JV 620	877.80	62.2'	56'
MW-6	VW 859	878.27	66.8'	61'

Ground water samples will be collected semi-annually during the operation of the soil vapor extraction remediation system. All groundwater monitoring well samples will be collected according to the WDNR "Groundwater Sampling Field Manual PUBL-DG-038 96 procedures using bailers or positive displacement submersible bladder or similar pump(s). These procedures include removing a minimum of 3 well volumes prior to sample collection. Purging and sampling rates shall not exceed 0.5 gallons per minute. The pH, specific conductance, temperature, and DO will be measured in samples collected at the well head and recorded for each well.

The total depths of each monitoring well will be measured annually to verify the integrity of the wells.

Depth to water levels shall be measured at each monitoring well during each sampling trip. Water depths shall be measured accurately to the nearest 0.01 foot prior to purging the well using an electronic depth to water meter. The measurement shall be taken from the top of the 2-inch riser well casing to the water surface.

B. Soil Vapor Extraction System

The SVE (soil vapor extraction) system is located on the northeast corner of the Village Cleaners Building. It consists of four separately housed units – an electrical feed sub-panel with disconnect, an electronics control panel, an SVE manifold, and the SVE Blower. Monitoring will be conducted at the SVE manifold and at the blower discharge stack. Each SVE vent (labeled V-1 throughV-6) and the blower stack (labeled S-1) will have an individual sample port to be used for sample collection. In addition to sample collection the following system information will be collected: blower operating hours (record date and time of reading), ambient temperature, ambient air pressure, and stack discharge rate (air flow in SCFM- standard cubic feet per minute).

Samples to be collected will include:

Summa Canister (TO-15 analyses): one per sampling event from the discharge stack

Charcoal Tubes (NIOSH 1003 analyses): up to six per sampling event - one from each active vent riser

PID measurements (Isobutylene standard): up to six per sampling event - one from each active vent riser

The laboratory will provide a Summa Canister for sampling purposes. Organize shipment of the sample device one week prior to the desired sample event. Summa Canister samples will be collected as grab samples. Once the sample tube is connected to the sample port on the stack, open the sample port then connect the sample tube to the sampler. This dispels ambient air from the sample tube. The sample tube will be connected to the canister flow control value which will be opened slowly to allow the sample to be drawn from the stack over a 30 to 60 second period.

Charcoal tube samples provided by the laboratory will be collected using portable air sampling pumps (GilAir or equivalent). Each sample will consist of a 3 liter draw at 200 cc per minute (0.2 liters per minute). Anticipated sample times are 15 minutes per tube. Initial samples may be modified dependent on contaminant concentrations.

VOC concentrations will also be measured with a PID (photoionization detector) equipped with a 10.6 eV lamp. These measurements will be completed immediately before or after the quantitative charcoal tube samples are collected. Samples will be acquired by inserting the device sampling tube through the sample port into the air flow stream in the vent. These results will be recorded in the field book for future comparison with the quantitative results. PID measurements will be made with calibrated meters (100 ppm isobutylene) and after the PID device has been purged with ambient air for at least 30 seconds after each measurement.

C. Requirements – Parameters, Methods, and Detection Limits

Chain of custody sheets will be filled out by the sample collection team and laboratory personnel. At a minimum, the custody sheets shall indicate project name, sample location, field observations, type of sampler used, field id number, date and time of sample, sample depth, sampling team, lab number, date received by the lab, date analyzed by the lab, and the parameters to be analyzed with their measurement units.

Each groundwater sample will be analyzed for VOC according to the method described in SW-846 8260.

The Summa Canister sample will be analyzed using the TO-15 method with measurements reported in both ppbv (parts per billion by volume) and $\mu g/m^3$ (micrograms per cubic meter).

Charcoal tubes will be analyzed following the NIOSH 1003 method with results presented in ppbv and $\mu g/m^3$ (micrograms per cubic meter).

Sample analytical values that fall between the laboratory's practical quantitation limit (PQL) but above the method detection limit (MDL) will be reported and qualified as "estimated". All supporting QA/QC documentation shall be included with the test results. Detection limits of at least 0.5 µg/L shall be attained. Specific description of the analytical methods used and the detection limits attained for each parameter shall be reported with the analytical results.

D. Quality Assurance/Control Protocol

General

The laboratory performing analytical work must be state certified (Wisconsin certification or reciprocity with the Wisconsin certification program) for the parameters to be analyzed. Normal chain of custody and other quality control procedures will be followed by the Contractor. The laboratory will conduct standard quality control procedures and report all quality control measures with the analytical results. Every attempt will be made for a single parameter or group of parameters for all of the samples will be analyzed in a single analytical session. The quality assurance program and any analysis associated with it are considered part of the normal procedures and are considered incidental.

The Laboratory will provide a Standard report deliverable providing:

A Case Narrative	Surrogate Summary
Detection Summary	QC Sample Results
Method Summary	Chronicle
Sample Summary	Certification Summary
Client Sample Results	Chain of Custody
Definitions	Receipt Checklists
QC Association	

Any deviations in the analyses or accompanying documentation will be immediately made known to the sampler or the client project manager.

VII. CONCLUSIONS

Semi-annual progress reports will be provided documenting the remediation efforts at the site. The progress report will include:

- WDNR Form 4400-194
- Biweekly or monthly (as may be proposed in Section VI) system conditions.
- Operational issues.
- Calculations of PERC emissions.
- Copies of laboratory analysis.
- Summation of the effort, case site specifics, and recommendations for alteration of project as warranted.

Tables

TABLE 2 SOIL IMPACTS VOLATILE ORGANIC COMPOUNDS
VILLAGE CLEANERS, MENOMONIE, WISCONSIN
BRRTS # 02-17-552037
Sample analyses in µg/kg = micrograms per kilogram or ppb

Sample		PERC (Tetra - chloroethylene)	cis-1,2-Dichloroethene	TCE (Tri-chloroethene)	Xylenes
Number	Depth (ft)				
BORING AND MONITOR WELL SAMPLING					
B-1	2.5-5	5,630	<24	<20	<20
B-2	12.5-15	141	<24	<20	<20
B-3	10-12.5	94	<24	<20	<20
B-4	10-12.5	<18	<24	<20	<20
B-5 / MW-1	2-4	9,500	<27	<27	<27
	10-12	170	<26	<26	<26
	26-28	370	<29	<29	<29
	38-40	180	<26	<26	<26
	55-57	<29	<29	<29	<29
B-6	2-4	5,600	<26	<26	<26
	13-15	110	<26	<26	<26
	33-35	830	<26	<26	<26
	50-52	250	<26	<26	<26
	62-64	450	<26	<26	<26
B-7	6-8	83	<26	<26	<26
	18-20	260	<26	<26	<26
	33-35	250	<26	<26	<26
	48-50	320	<26	<26	<26
B-8	3-5	950	<27	<27	<27
	18-20	58	<26	<26	<26
	48-50	43	<26	<26	<26
B-9	3-5	160	<26	<26	<26
	13-15	<25	<25	<25	<25
	33-35	<26	<26	<26	<26
	38-40	<26	<26	<26	<26
MW-2-1	62	<30	<30	<30	<30
MW-3-1	27	<47	<47	<47	<47
MW-4	60	<29	<29	<29	<29
SOIL VENT SAMPLING					
V-2	20	5,600	<6.6	<10	<3.7
V-3	20	2,000	<6.4	20 J	<3.6
V-4	40	27 J	<6.3	<9.6	<3.5
V-5	20	29 J	<6.1	<9.2	<3.4
V-6	4	70	<6.2	<9.4	<3.4
EXCAVATION CONFIRMATION SAMPLING					
EX-1	4	830	<7.1	<11	<11
EX-2	2	600	<6.8	<10	<10
EX-3	2	620	<10	<11	<11
EX-4	2	810	<7.0	<11	23 J
EX-5	4	92	<6.8	<10	<3.8
PERC TANK SITE ASSESSMENT					
BASE	8	2,200	<6.9	<10	<5.8
NORTH	6	14,000	<6.9	27 J	30
EAST	6	1,400	<6.9	<10	24 J
WEST	6	1,100	<7.1	<11	24 J
SOUTH	6	1,100	<6.9	<10	29

TABLE 3 GROUNDWATER MONITORING WELL DATA AND ELEVATIONS
VILLAGE CLEANERS, MAIN ST., MENOMONIE, WI
BRRTS # 02-17-552037

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	
UNIQUE WELL ID	VW 856	VW 850	VW851	VW 852	JV 620	VW 859	
TOC, FEET MSL	878.74	879.38	877.3	877.46	877.8	878.27	
TOTAL WELL DEPTH, FT	63.00	62.55	61.60	67.10	62.20	66.80	
TOP OF SCREEN ELEVATION	830.74	831.83	830.7	825.36	830.6	826.47	
DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	
3/17/2010	824.59						
10/7/2010	825.58	827.75	824.51	820.78			
3/18/2011	825.78	827.83	824.74	821.3	821.44	816.27	
6/18/2011	826.29	828.32	824.88	821.51	821.86	816.38	
9/9/2013	826.06	828.16	824.99	821.47	821.65	816.26	

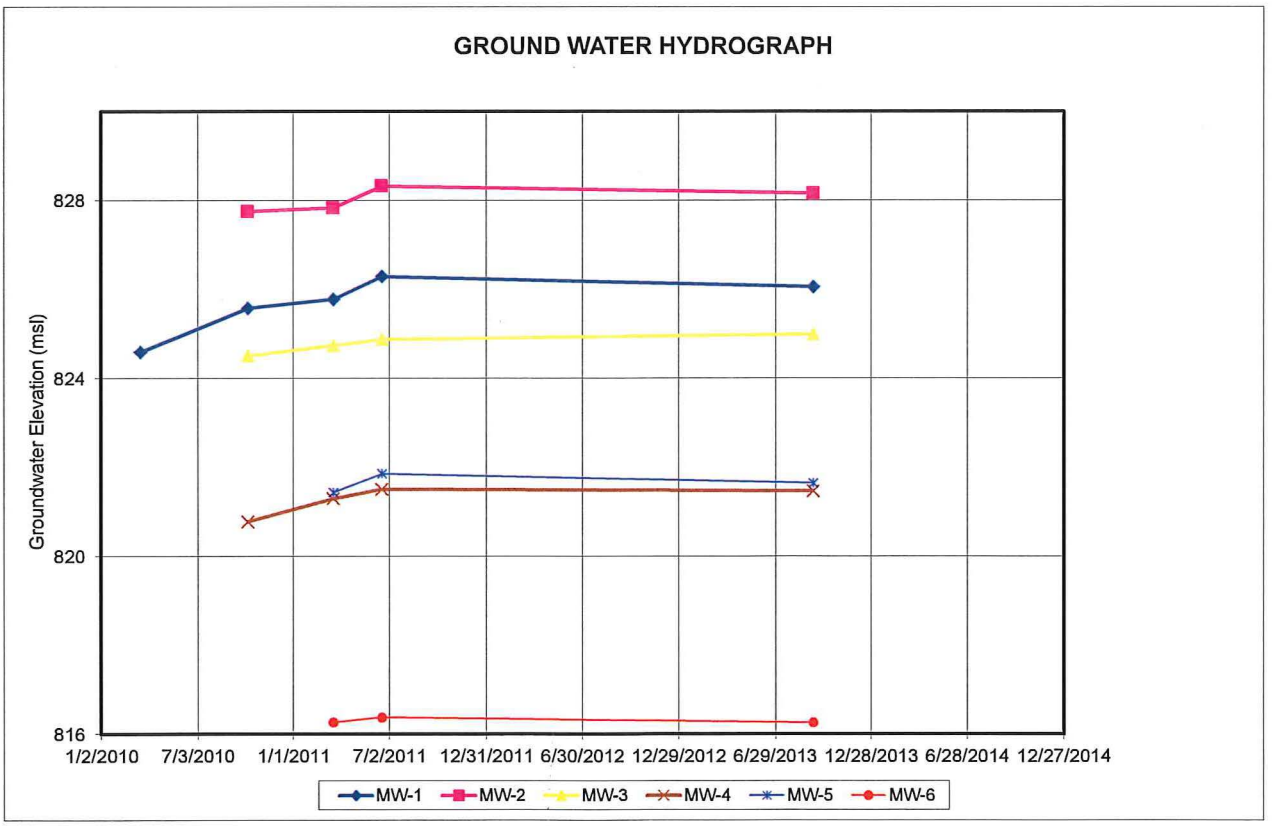

TABLE 4 GROUNDWATER IMPACTS VOLATILE ORGANIC COMPOUNDS
VILLAGE CLEANERS, MENOMONIE, WISCONSIN
BRRTS # 02-17-552037

MONITORING WELL	DATE	Benzene	PERC (Tetrachloroethylene)	Toluene	Trichloroethylene
		Concentrations in µg/L			
	NR 140 PAL	0.5	0.5	1000	0.5
	NR 140 ES	5	5	200	5
MW-1	3/17/2010	*1.0*	**640**	0.82	*0.51*
	10/7/2010	<6.4	**1900**	<16	<6.4
	3/18/2011	<0.20	**500**	<0.50	0.64
	6/13/2011	<1.6	**390**	<4.0	<1.6
	9/9/2013	<0.074	**160**	<0.11	<0.19
MW-2	10/7/2010	<0.20	<0.50	<0.50	<0.20
	3/18/2011	<0.20	<0.50	<0.50	<0.20
	6/13/2011	<0.2	<0.50	<0.50	<0.20
	9/9/2013	<0.074	<0.17	<0.11	<0.19
MW-3	10/7/2010	<0.20	<0.50	<0.50	<0.20
	3/18/2011	<0.20	<0.50	<0.50	<0.20
	6/11/2013	<0.20	*0.58 J*	<0.50	<0.20
	9/9/2013	<0.074	*0.76*	<0.11	<0.19
MW-4	10/7/2010	<0.20	<0.50	<0.50	<0.20
	3/18/2011	<0.20	<0.50	<0.50	<0.20
	6/11/2013	<0.20	<0.50	<0.50	<0.20
	9/9/2013	<0.074	<0.17	<0.11	<0.19
MW-5	3/18/2011	<0.20	**200**	<0.50	<0.20
	6/13/2011	<0.40	**180**	<1.0	<0.40
	9/9/2013	<0.074	**72**	<0.11	<0.19
MW-6	3/18/2011	<0.20	**190**	<0.50	<0.20
	6/13/2011	<0.40	**120**	<0.50	<0.20
	9/9/2013	<0.074	**100**	<0.11	<0.19

NS indicates no standard has been established

italic typeface indicates the parameter concentration exceeds the PAL (preventive action limit) in TABLE 1 of NR 140

BOLD typeface indicates the parameter concentration exceeds the ES (enforcement standard) in TABLE 1 of NR 140

TABLE 5

CONTAMINANT MASS IN SOIL

CONTAMINANT MASS TETRACHLOROETHYLENE
VILLAGE CLEANERS, MENOMONIE, WISCONSIN
BRRTS # 02-17-552037

Pounds per Cubic Yard 2800

Unsaturated Soil, / Excavation

Length or Diameter (ft)	Width (ft)	Area, ft2	Thickness (ft)	Volume (CY)	Contaminant	Average Concentration, ppm	**Pounds of Contaminant**
20	20	400	4	59	PERC	6.91	**1.1**
							0.0
							0.0

Unsaturated Soil, / PERC Tank

Length or Diameter (ft)	Width (ft)	Area, ft2	Thickness (ft)	Volume (CY)	Contaminant	Average Concentration, ppm	**Pounds of Contaminant**
		0	25	52	PERC	2.67	**0.4**
							0.0
							0.0

Unsaturated Soil, Storm Water Drain

Length or Diameter (ft)	Width (ft)	Area, ft2	Thickness (ft)	Volume (CY)	Contaminant	Average Concentration, ppm	**Pounds of Contaminant**
			25	519	PERC	0.79	**1.1**
							0.0
							0.0

Unsaturated Soil, / Balance of Site

Length or Diameter (ft)	Width (ft)	Area, ft2	Thickness (ft)	Volume (CY)	Contaminant	Average Concentration, ppm	**Pounds of Contaminant**
			55	4930	PERC	0.70	**9.7**
							0.0
						0	**0.0**

	CUBIC YARDS		**POUNDS**
TOTAL VOLUME	**5559**	**TOTAL MASS**	**12.4**

Plans

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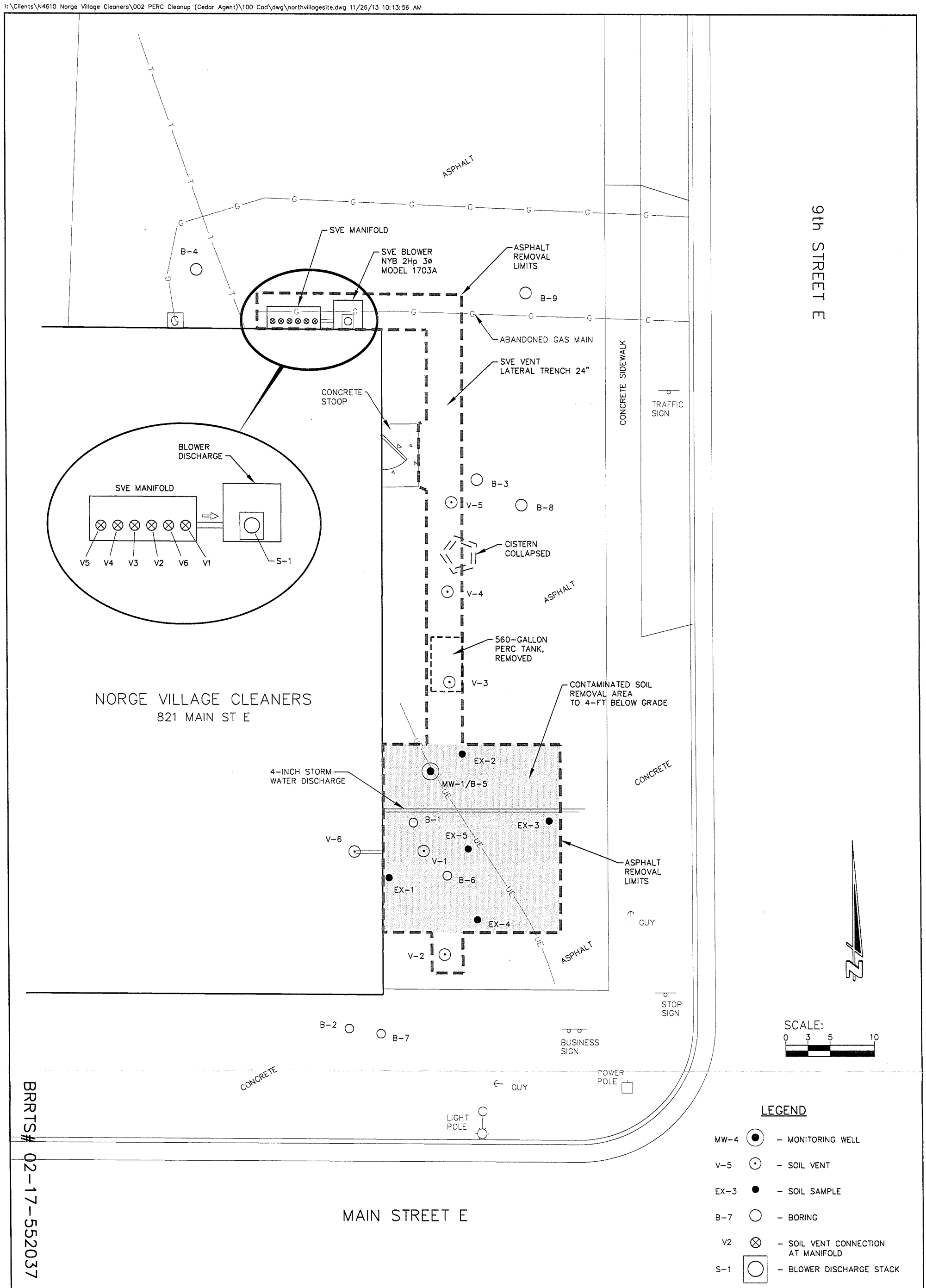

BRRTS# 02-17-552037

SHEET NO. 1 OF 4

NORGE VILLAGE CLEANERS
MENOMONIE, WI
PERC REMEDIATION
SITE PLAN

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Madison, WI 53718
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FAX 608-249-5824
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Suite 400
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FAX 920-491-9020

JOB NO. N4610-002
BOOK NO.
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CHECKED BY SEM
DATE OCT 2013
REVISIONS
REFERENCE FILE northvillagesite...
DRAWING FILE northvillagesite...

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9th STREET E

ASPHALT

SVE MANIFOLD

SVE BLOWER
NYB 2Hp 3ø

ASPHALT
REMOVAL
LIMITS

B-4
<18-10

B-9
160-3

ABANDONED GAS MAIN

SVE VENT
LATERAL TRENCH 24"

CONCRETE SIDEWALK

TRAFFIC
SIGN

CONCRETE
STOOP

560-GALLON
PERC TANK,
REMOVED

B-3
94-10

V-5
29-20

B-8
950-3
58-18
43-48

CISTERN
COLLAPSED

N
14,000-6

W
7100-6

BASE
2200-6

EAST
1900-6

S
1100-6

V-4
27-40

ASPHALT

NORGE VILLAGE CLEANERS
821 MAIN ST E

V-3
2000-20

CONTAMINATED SOIL
REMOVAL AREA
TO 4-FT BELOW GRADE

MW-1/B-5
<29-55
170-10
370-26
180-38

EX-2
600-2

4-INCH STORM
WATER DISCHARGE

CONCRETE

B-1
5630-5

V-1

EX-3
620-2

V-6
70-4

EX-1
830-4

EX-5
92-4

ASPHALT
REMOVAL
LIMITS

B-6
110-13
830-33
250-56
450-62

EX-4
810-2

GUY

V-2
5600-20

ASPHALT

STOP
SIGN

B-2
141-15

B-7
183-6
260-18
250-33
320-48

BUSINESS
SIGN

CONCRETE

GUY

POWER
POLE

LIGHT
POLE

SCALE:
0 3 5 10

LEGEND

MW-4 – MONITORING WELL

V-5 – SOIL VENT

EX-3 – EXCAVATION CONFIRMATION SOIL SAMPLE

B-2
141-15 – BORING
141 ppb PERC AT
15 FEET BELOW SURFACE

V2 – SOIL VENT CONNECTION AT MANIFOLD

S-1 – BLOWER DISCHARGE STACK

BRRTS# 02-17-552037

MAIN STREET E

SHEET NO. 2 OF 4

NORGE VILLAGE CLEANERS
MENOMONIE, WI
PERC REMEDIATION
SOIL CONTAMINATION – OCTOBER 2013

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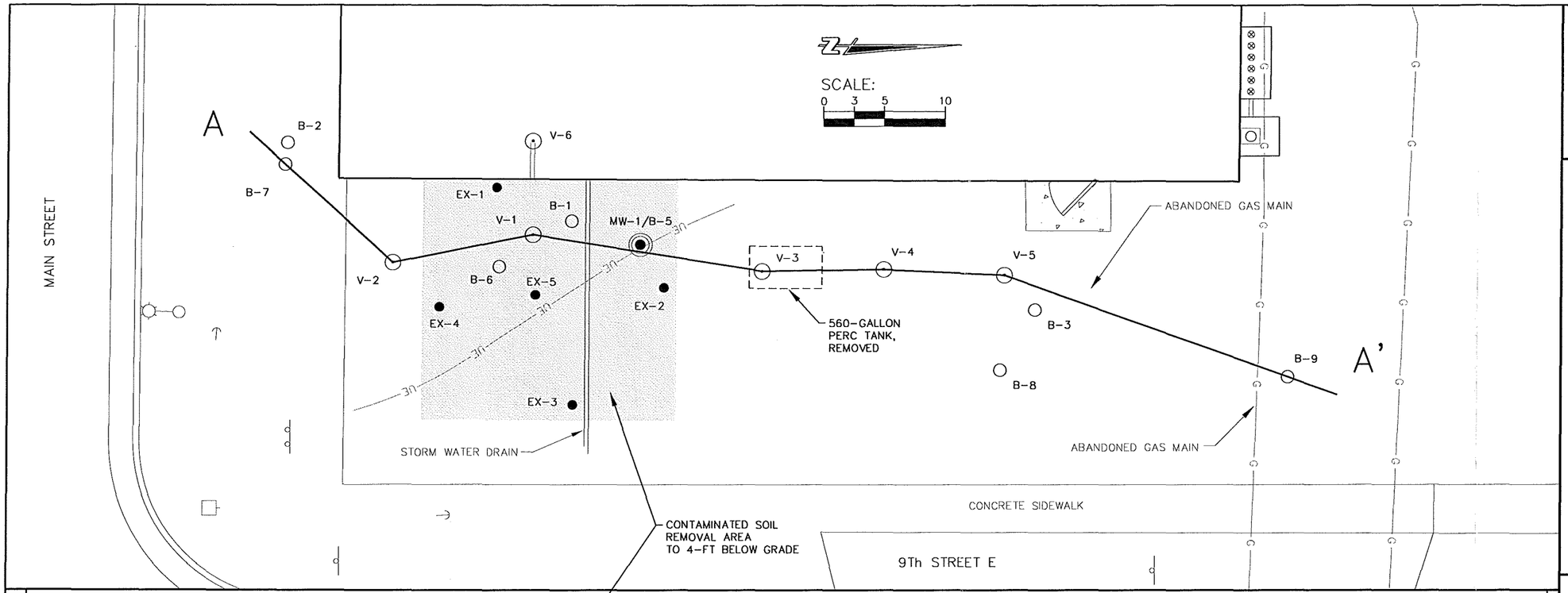
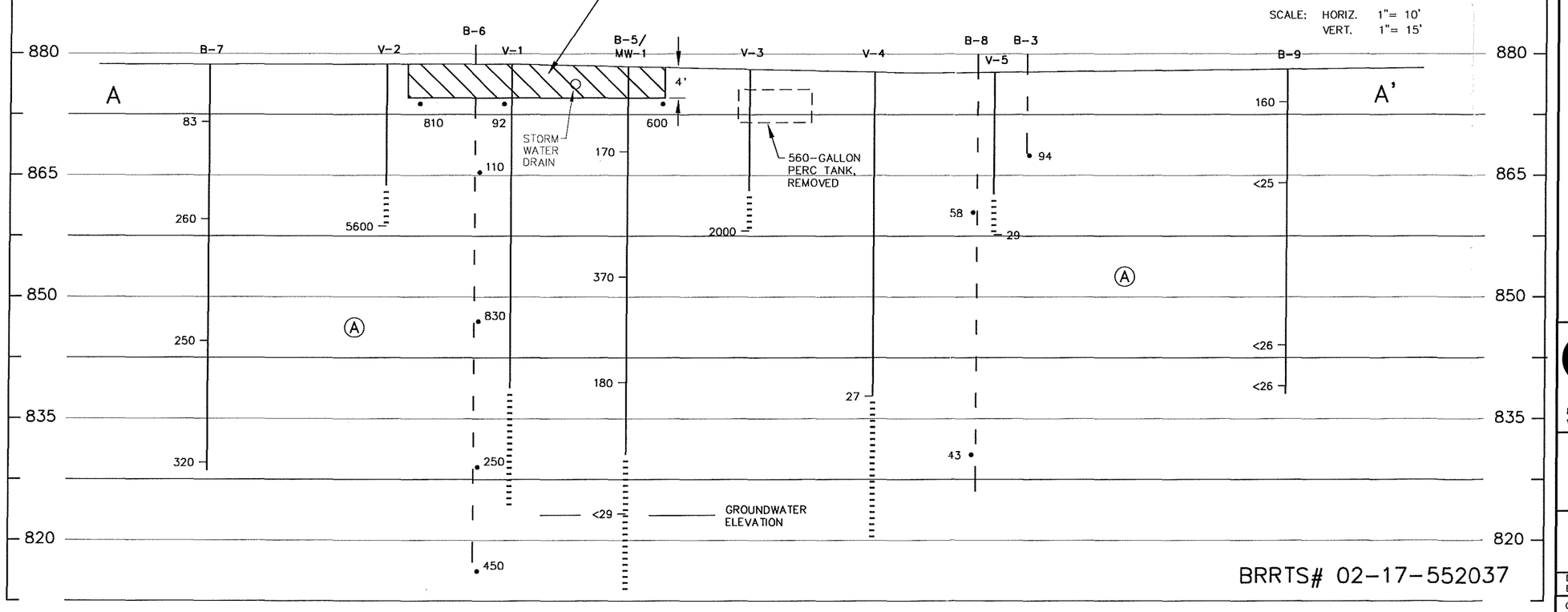
REFERENCE FILE northvillagesite..
DRAWING FILE northvillagesite..





LEGEND

MW-4 ◉ – MONITORING WELL
B-1 ○ – BORING
EX-3 ● – SOIL SAMPLE

Vent Data
Screen
58
Offset Soil Boring
• 94
Soil Boring Data
160
<25
<26
<26

Concentration of Tetrachloroethylene in µg/kg
260 — ON Profile
260 • OFF Profile

GEOLOGIC LEGEND

Ⓐ – BROWN SAND TO BROWN CLAYEY SAND USCS (SC)

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NORGE VILLAGE CLEANERS
MENOMONIE, WI
PERC REMEDIATION

CROSS SECTION A-A'
FIGURE 3

Drawn By	KAT	Plans Checked	SEM
Cadd File	050101_pp*.dwg	Job Number	N4610-002

BRRTS# 02-17-552037

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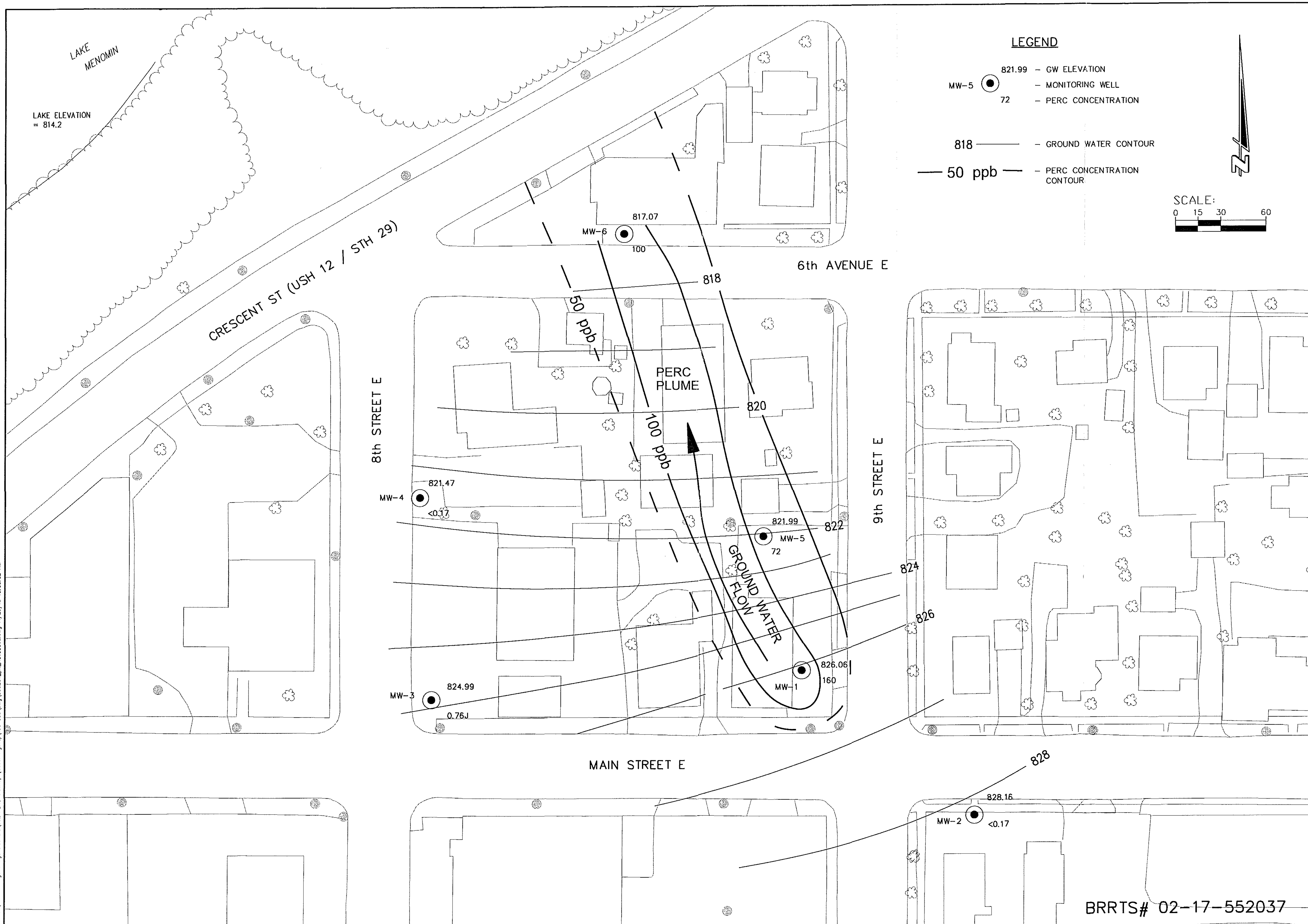

JOB NO.	N4610-002
BOOK NO.	
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CHECKED BY	SEM
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REFERENCE FILE	
DRAWING FILE	northvillagesite...

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NORGE VILLAGE CLEANERS
MENOMONIE, WI
PERC REMEDIATION
GROUNDWATER CONDITIONS MAP

SHEET NO. 4 OF 4

Appendix A

WDNR Correspondence

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
890 Spruce Street
Baldwin, WI 54002

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

October 10, 2013

Debbi & Denny Bodoh
Village Cleaners
821 E Main St
Menomonie, WI 54751

SUBJECT: Approval of Consultant Selection, Scope of Work and Bid Costs
For the Remedial Action at the Village Cleaners,
821 E Main St, Menomonie, WI
DNR BRRTS Activity # 02-17-552037
WDNR FID # 617044780

Dear Mrs. & Mr. Bodoh:

On August 13, 2013, the Wisconsin Department of Natural Resources (Department) received your request to hire Cedar Corporation as your environmental consultant for the remedial action activities at the Village Cleaners site. After careful review of the submitted proposals the Department is approving your request to hire Cedar Corporation for the remedial action activities at the Village Cleaners site. The Scope of Work for the remedial action is also approved.

The remedial action for this site includes groundwater monitoring, installation and operation of a multi well soil vapor extraction system including a horizontal pipe installed below the facility slab on the east side of the building, Limited soil excavation and disposal, and system operation and maintenance.

In regards to the hazardous waste determination requirements, your consultant has submitted information to the Department in a letter report dated September 30, 2013. That letter report entitled *Tetrachloroethylene Waste "Contained Out" Calculation* at the above referenced site describes the guidance and method used to make that determination. Based on that guidance, your consultant has determined that the material which is proposed to be landfilled would not be classified as hazardous waste and can be characterized as solid waste and can be disposed of at a subtitle D landfill.

Cost approved for this scope of work is $17,990 for consulting and $61,763 for sub-contractors, for a total of $79,753.00.

Please be aware that you are required to comply with all applicable statutes and administrative rules including the NR 700 series, Wisconsin Administrative Code, hazardous waste management and wastewater discharges.

This approval does not guarantee the reimbursement of costs under the Dry Cleaner Environmental Response Program. Final determination regarding the eligibility of costs for reimbursement will be made at the time of claim review.

If you have any questions or concerns regarding the content of this letter, please contact me at 715 684-2914 ext. 117.

Sincerely,

Patrick Collins

Patrick Collins
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Scott, McCurdy – Cedar Corp.
Sarah Bradley - CF/2, GEF 2, Madison

Appendix B

Photographic Documentation

Cedar corporation

PHOTOGRAPH LOG

Client Name: Village Cleaners, Menomonie WI	**Site Location:** 821 E Main Street	**Project No.** 4610-003

Photo No.	**Date:**
1	10/16/13

Direction Photo Taken:

North

Description:

Excavation to top of foundation footing showing soil vent V-1

Photo No.	**Date:**
2	10/16/13

Direction Photo Taken:

West

Description:

Excavation V-1 on the left, MW-1 under flush mount on the right. Storm drain outlet from building behind shovel.

Cedar corporation

PHOTOGRAPH LOG

Client Name: Village Cleaners, Menomonie, WI	**Site Location:** 821 E. Main Street	**Project No.** 4610-03

Photo No.	**Date:**
3	10/16/13

Direction Photo Taken:

South

Description:

Excavation of Hot Spot of Contaminated Soils complete

Photo No.	**Date:**
4	10/16/13

Direction Photo Taken:

South

Description:

Backfilling with Pea Gravel, Storm Drain installed with insulation and conduit for electrical to business sign

Cedar corporation

PHOTOGRAPH LOG

Client Name: Village Cleaners, Menomonie WI	**Site Location:** 821 E Main Street	**Project No.** 4610-003

Photo No.	**Date:**
5	10/16/13

Direction Photo Taken:

Description:

Asphalt peeling reveals tank fill pipe just north of excavation

Photo No.	**Date:**
6	10/16/13

Direction Photo Taken:

Southeast

Description:

Tank removed from excavation

Cedar corporation

PHOTOGRAPH LOG

Client Name: Village Cleaners, Menomonie, WI	**Site Location:** 821 E. Main Street	**Project No.** 4610-03

Photo No.	**Date:**
7	10/16/13

Direction Photo Taken:

West

Description:

Tank Bed

Photo No.	**Date:**
8	10/17/13

Direction Photo Taken:

North

Description:

SVE Laterals during installation

Cedar corporation

PHOTOGRAPH LOG

Client Name: Village Cleaners, Menomonie WI	**Site Location:** 821 E Main Street	**Project No.** 4610-003

Photo No. 9	**Date:** 10/17/13

Direction Photo Taken:

West

Description:

Trench Compaction

Photo No. 10	**Date:** 10/17/13

Direction Photo Taken:

South

Description:

Coring Foundation wall to install V-6

Cedar corporation

PHOTOGRAPH LOG

Client Name: Village Cleaners, Menomonie, WI	**Site Location:** 821 E. Main Street	**Project No.** 4610-03

Photo No.	**Date:**
11	10/18/13

Direction Photo Taken:

West

Description:

V-6 installed

Photo No.	**Date:**
12	11/25/13

Direction Photo Taken:

South

Description:

Remediation System at Start-up

Appendix C

Soil Vapor Extraction Pilot Test

VILLAGE CLEANERS SVE PILOT TEST
28-Aug-13

TEST POINTS			
	TOTAL DEPTH FT.	SCREEN LENGTH FT	WELL CASING DIA. IN.
MW-1	57	9	2
V-1	40	15	2
VENT SEPARATION			
HORIZONTAL		8.5 FT	
VERTICAL		8 Ft	
Direct Separation (bottom of V-1 to top of MW-1)			8 ft
BLOWER	set up on V-1		
GAST	MODEL R2103	120 v	1/3 HP
	3450 RPM		35 IN H2O max.
Vac on discharge side		0 inches	
Discharge on vac side		20 SCFM	
Vac at MW-1		0.09 inches H2O	
PID measurement		20 ppm	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Village Cleaners

Lot #: H3I040424

Ryan Stafne

Cedar Corporation
604 Wilson Avenue
Menomonie, WI 54751

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

September 17, 2013

ANALYTICAL METHODS SUMMARY

H3I040424

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H3I040424

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
M1TT5	001	V-1	08/28/13	10:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H3I040424

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	L-A-B	DoD ELAP		L2311
TestAmerica Knoxville	Arkansas DEQ	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Indiana	State Program	5	C-TN-02
TestAmerica Knoxville	Iowa	State Program	7	375
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana DOHH	State Program	6	LA110001
TestAmerica Knoxville	Louisiana DEQ	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Minnesota	NELAC	5	047-999-429
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina DENR	State Program	4	64
TestAmerica Knoxville	North Carolina DHHS	State Program	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	2014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-TX
TestAmerica Knoxville	Federal	USDA		P330-11-00035
TestAmerica Knoxville	Utah	NELAC	8	QUAN3
TestAmerica Knoxville	Virginia	NELAC	3	460176
TestAmerica Knoxville	Virginia	State Program	3	165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia DEP	State Program	3	345
TestAmerica Knoxville	West Virginia DHHR	State Program	3	9955C

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Cedar Corporation

Client Sample ID: V-1

GC/MS Volatiles

Lot-Sample #	H3I040424 - 001	**Work Order #**	M1TT51AC	**Matrix.....:**	AIR
Date Sampled...:	08/28/2013	**Date Received..:**	09/04/2013		
Prep Date.....:	09/05/2013	**Analysis Date...**	09/06/2013		
Prep Batch #.....:	3249012				
Dilution Factor.:	635.99	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Dichlorodifluoromethane	ND	130	ND	630
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	130	ND	890
Chloromethane	ND	320	ND	660
Vinyl chloride	ND	130	ND	330
Bromomethane	ND	130	ND	490
Chloroethane	ND	130	ND	340
Trichlorofluoromethane	ND	130	ND	710
1,1-Dichloroethene	ND	130	ND	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	130	ND	970
Methylene chloride	ND	320	ND	1100
1,1-Dichloroethane	ND	130	ND	510
cis-1,2-Dichloroethene	ND	130	ND	500
Chloroform	ND	130	ND	620
1,1,1-Trichloroethane	ND	130	ND	690
Carbon tetrachloride	ND	130	ND	800
Benzene	ND	130	ND	410
1,2-Dichloroethane	ND	130	ND	510
Trichloroethene	ND	130	ND	680
1,2-Dichloropropane	ND	130	ND	590
cis-1,3-Dichloropropene	ND	130	ND	580
Toluene	**2200**	**130**	**8400**	**480**
trans-1,3-Dichloropropene	ND	130	ND	580
1,1,2-Trichloroethane	ND	130	ND	690
Tetrachloroethene	**8100**	**130**	**55000**	**860**
1,2-Dibromoethane (EDB)	ND	130	ND	980
Chlorobenzene	ND	130	ND	590
Ethylbenzene	ND	130	ND	550
m-Xylene & p-Xylene	ND	130	ND	550
o-Xylene	ND	130	ND	550
Styrene	ND	130	ND	540
1,1,2,2-Tetrachloroethane	ND	130	ND	870
1,3,5-Trimethylbenzene	ND	130	ND	630
1,2,4-Trimethylbenzene	ND	130	ND	630
1,3-Dichlorobenzene	ND	130	ND	760
1,4-Dichlorobenzene	ND	130	ND	760
1,2-Dichlorobenzene	ND	130	ND	760
Benzyl chloride	ND	250	ND	1300

Cedar Corporation

Client Sample ID: V-1

GC/MS Volatiles

Lot-Sample # H3I040424 - 001 **Work Order #** M1TT51AC **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2,4-Trichlorobenzene	ND	640	ND	4700
Hexachlorobutadiene	ND	640	ND	6800
Naphthalene	ND	320	ND	1700

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Cedar Corporation

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H3I060000 - 012B	**Work Order #**	M1VJ51AA	**Matrix.....:**	AIR
	08/29/2013	**Date Received..:**	08/31/2013		
Prep Date.....:	09/05/2013	**Analysis Date...**	09/05/2013		
Prep Batch #.....:	3249012				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	ND	0.20	ND	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	ND	0.50	ND	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	ND	0.20	ND	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	ND	0.20	ND	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	ND	0.20	ND	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Tetrachloroethene	ND	0.20	ND	1.4
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
Benzyl chloride	ND	0.40	ND	2.1

Cedar Corporation

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H3I060000 - 012B **Work Order #** M1VJ51AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11
Naphthalene	ND	0.50	ND	2.6

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Cedar Corporation

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H3I060000 - 012C **Work Order #** M1VJ51AC **Matrix.....:** AIR

	08/29/2013	**Date Received..:**	08/31/2013
Prep Date.....:	09/05/2013	**Analysis Date...**	09/05/2013
Prep Batch #.....:	3249012		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Dichlorodifluoromethane	5.00	4.87	25	24.1	97	60 - 140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	5.30	35	37.0	106	60 - 140
Chloromethane	5.00	4.83	10	9.98	97	60 - 140
Vinyl chloride	5.00	4.91	13	12.5	98	70 - 130
Bromomethane	5.00	5.05	19	19.6	101	70 - 130
Chloroethane	5.00	5.15	13	13.6	103	70 - 130
Trichlorofluoromethane	5.00	5.06	28	28.4	101	60 - 140
1,1-Dichloroethene	5.00	5.75	20	22.8	115	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	5.83	38	44.7	117	70 - 130
Methylene chloride	5.00	5.65	17	19.6	113	70 - 130
1,1-Dichloroethane	5.00	5.06	20	20.5	101	70 - 130
cis-1,2-Dichloroethene	5.00	5.12	20	20.3	102	70 - 130
Chloroform	5.00	4.92	24	24.0	98	70 - 130
1,1,1-Trichloroethane	5.00	4.97	27	27.1	99	70 - 130
Carbon tetrachloride	5.00	4.52	31	28.4	90	70 - 130
Benzene	5.00	5.03	16	16.1	101	70 - 130
1,2-Dichloroethane	5.00	5.21	20	21.1	104	70 - 130
Trichloroethene	5.00	5.41	27	29.1	108	70 - 130
1,2-Dichloropropane	5.00	5.23	23	24.2	105	70 - 130
cis-1,3-Dichloropropene	5.00	5.09	23	23.1	102	70 - 130
Toluene	5.00	5.17	19	19.5	103	70 - 130
trans-1,3-Dichloropropene	5.00	5.48	23	24.9	110	70 - 130
1,1,2-Trichloroethane	5.00	4.99	27	27.2	100	70 - 130
Tetrachloroethene	5.00	5.08	34	34.4	102	70 - 130
1,2-Dibromoethane (EDB)	5.00	5.12	38	39.4	102	70 - 130
Chlorobenzene	5.00	5.05	23	23.2	101	70 - 130
Ethylbenzene	5.00	5.34	22	23.2	107	70 - 130
m-Xylene & p-Xylene	10.0	10.8	43	47.0	108	70 - 130
o-Xylene	5.00	5.23	22	22.7	105	70 - 130
Styrene	5.00	5.47	21	23.3	109	70 - 130
1,1,2,2-Tetrachloroethane	5.00	5.31	34	36.5	106	70 - 130
1,3,5-Trimethylbenzene	5.00	5.60	25	27.5	112	70 - 130
1,2,4-Trimethylbenzene	5.00	5.65	25	27.8	113	70 - 130
1,3-Dichlorobenzene	5.00	5.45	30	32.8	109	70 - 130
1,4-Dichlorobenzene	5.00	5.40	30	32.5	108	70 - 130
1,2-Dichlorobenzene	5.00	5.31	30	31.9	106	70 - 130

Cedar Corporation

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H3I060000 - 012C **Work Order #** M1VJ51AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Benzyl chloride	5.00	6.02	26	31.2	120	70 - 130
1,2,4-Trichlorobenzene	5.00	6.51	37	48.3	130	60 - 140
Hexachlorobutadiene	5.00	5.39	53	57.5	108	60 - 140
Naphthalene	5.00	6.26	26	32.8	125	40 - 140

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

H3I040424

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager:	Sampled By: RDS	1 of 1 COCs
Company: Cedar Corp	Phone:		
Address: 604 Wilson Ave	Site Contact:		
City/State/Zip Menomonie, WI 54751	TAL Contact:		
Phone: 715-235-9081			
FAX:			
Project Name: Village Cleaners	Analysis Turnaround Time		
Site/location:	Standard (Specify)		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
V-1	8/28/13	1045	1045	~~NA~~ -29.5	NA	NA	1523	X									X		

Sampled by : RDS

Temperature (Fahrenheit)	Interior	Ambient	
Start		77	
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start		30.03 in Hg	
Stop		30.03 in Hg	

Received @ ambient temp
Custody seal intact
1 box
KW 9/4/13
UPS Ground
1Z 577 618 03 9385 0935
1 CAN / 0 FLOW

Special Instructions/QC Requirements & Comments:

Canisters Shipped by: [signature]	Date/Time: 8/28/13 1100	Canisters Received by:
Samples Relinquished by: [signature]	Date/Time: 8/28/13 1100	Received by: [signature] 9/4/13 10:15
Relinquished by:	Date/Time:	Received by:

12

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H3104424

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)			✓	☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** See box 3A for pH Preservation ☐ **3b** Other:	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668)			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	✓			☐ **19a** Other	

	Box 3A: pH Preservation	Box 9A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Quote #: 91528 PM Instructions: NA

Sample Receiving Associate: Ken Wilson Date: 9/4/13

QA026R25.doc, 071813

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: *H3I040424*

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Can or Tedlar bag prep Time	Baro ID B2 Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Baro ID B2 Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
MY 9/4/13	1705	28.84	M1TT5	1523 ✓	-2.4	—	B 9/4/13	S	28.87	-2.5	+2.4				12728	~~2~~ 5mL	+4.9	10751

B 9/4/13

Appendix D

Soil Vapor Extraction Vent Boring and Construction Logs

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ■ Other ☐ _____

Facility/Project Name: Village Cleaners	License/Permit/Monitoring Number	Boring Number: V-1
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darren Last Name: Prentice Firm: Geiss Soil and Samples, LLC	Date Drilling Started: 08 26 2013 (M M D D Y Y Y Y)	Date Drilling Completed: 08 26 2013 (M M D D Y Y Y Y) Drilling Method: 4 1/4" HAS
WI Unique Well No. / DNR Well ID No. / Common Well Name: V-1	Final Static Water Level Feet MSL	Surface Elevation Feet MSL Borehole Diameter: 8 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E S/C/N NW 1/4 of SE 1/4 of Section 26, T 28 N, R 13 W	Lat ___ ___ ___ Long ___ ___ ___	Local Grid Location Feet ☐ N ☐ E Feet ☐ S ☐ W
Facility ID	County: Dunn	DNR County Code: 17 Civil Town/City/ or Village: Menomonie

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet (Below ground surface)	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			0	Blind Drill										
			5											
			10											
			15											
			20											
			25											
			30											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Ryan Stolze Firm: Cedar corporation

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this report is mandatory. Failure to file this form may results in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the form should be sent.

V-1 cont.

Sample Number	Sample Length Recovered	Sample Blow Counts	Depth in Feet		USCS	Graphic Log	Well Diagram	PID / FID	Soil Properties: STD Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/Comments
			30	Blind Drill										
			35											
			40	E.O.B. @ 40'										
			45											
			50											
			55											
			60											
			65											
			70											

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Village Cleaners	Local Grid Location of Well ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: V-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane ____ ft. N. ____ ft. E. S/C/N	Date Well Installed: 08/26/2013 (m m d d y y y y)
Type of Well: Well Code ____ / ____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N. R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

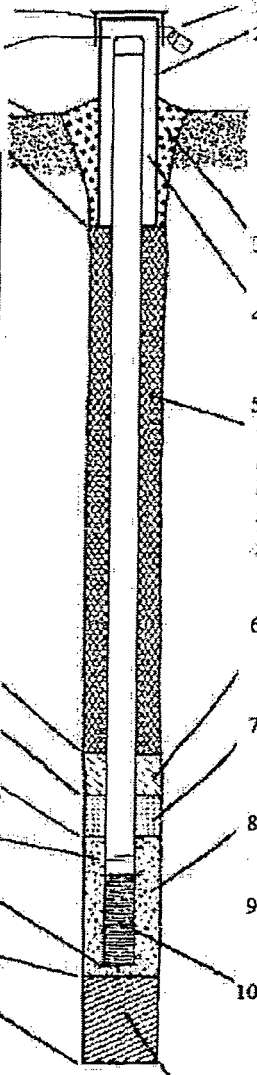
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or 21 ft.
G. Filter pack, top _____ ft. MSL or 23 ft.
H. Screen joint, top _____ ft. MSL or 25 ft.
I. Well bottom _____ ft. MSL or 40 ft.
J. Filter pack, bottom _____ ft. MSL or 41 ft.
K. Borehole, bottom _____ ft. MSL or 41 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04; Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☒ 30; Concrete ☒ 01; Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30; Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40 Red Flint
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ _____
10. Screen material: Johnson PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ _____
b. Manufacturer: Johnson
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.
11. Backfill material (below filter pack): None ☐ 14; Other ☒ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Darrin Prentice | Firm: Geiss Soil & Samples LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ■ Other ☐ _____

Facility/Project Name: Village Cleaners	License/Permit/Monitoring Number	Boring Number: V-2
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darren Last Name: Prentice Firm: Geiss Soil and Samples, LLC	Date Drilling Started: 10 10 2013 (M M D D Y Y Y Y)	Date Drilling Completed: 10 10 2013 (M M D D Y Y Y Y) Drilling Method: 4 1/4 " HAS
WI Unique Well No. / DNR Well ID No. / Common Well Name: V-2	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL Borehole Diameter: 8 Inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E S/C/N NW 1/4 of SE 1/4 of Section 26 ,T 28 N, R 13 W	Lat _____ Long _____	Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W
Facility ID	County: Dunn	DNR County Code: 17 Civil Town/City/ or Village: Menomonie

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Blind Drill										
			5											
			10											
			15											
			20	E.O.B @ 20'										
			25											
			30											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Ryan Stone Firm: Cedar corporation

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this report is mandatory. Failure to file this form may results in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Village Cleaners	Local Grid Location of Well ☐ N. ☐ S. _____ ft. ☐ E. ☐ W. _____ ft.	Well Name: V-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 10/10/2013 (m m d d Y Y Y Y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

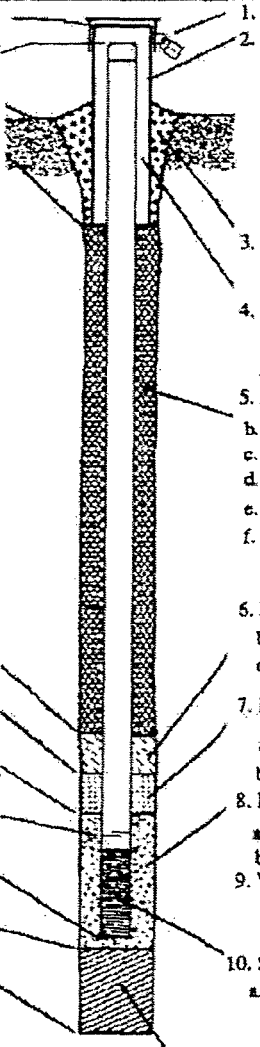
14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 5 ft.
F. Fine sand, top _____ ft. MSL or 11 ft.
G. Filter pack, top _____ ft. MSL or 13 ft.
H. Screen joint, top _____ ft. MSL or 15 ft.
I. Well bottom _____ ft. MSL or 20 ft.
J. Filter pack, bottom _____ ft. MSL or 21 ft.
K. Borehole, bottom _____ ft. MSL or 21 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☒ 30 Concrete ☒ 01 Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40 Red Flint
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 5 ft.
11. Backfill material (below filter pack): None ☐ 14 Other ☒

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Darrin Prentice Firm: Geiss Soil & Samples LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ■ Other ☐ _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Page 1 of 1

Facility/Project Name: Village Cleaners	License/Permit/Monitoring Number	Boring Number: V-3
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darren Last Name: Prentice Firm: Geiss Soil and Samples, LLC	Date Drilling Started: 10 10 2013 (M M D D Y Y Y Y)	Date Drilling Completed: 10 10 2013 (M M D D Y Y Y Y)
	Drilling Method: 4 1/4 " HAS	
WI Unique Well No.	DNR Well ID No.	Common Well Name: V-3
Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL	Borehole Diameter: 8 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E S/C/N	Lat ___ ___ ___ Long	Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W
NW 1/4 of SE 1/4 of Section 26 ,T 28 N, R 13 W		
Facility ID	County: Dunn	DNR County Code: 17
Civil Town/City/ or Village: Menomonie		

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Blind Drill ↓										
			5	Void: Empty Underground Tank										
			10	↓										
			15											
			20	E.O.B @ 20'										
			25											
			30											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Ryan Stapp Firm: Cedar corporation

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this report is mandatory. Failure to file this form may results in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Village Cleaners	Local Grid Location of Well ☐ ft. ☐ N. ☐ ft. ☐ E. ☐ S. ☐ W.	Well Name: V-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane ft. N. ft. E. S/C/N	Date Well Installed: 10/10/2013 (m m d d y y y y)
Type of Well Well Code /	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. ☐ E. ☐ W.	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

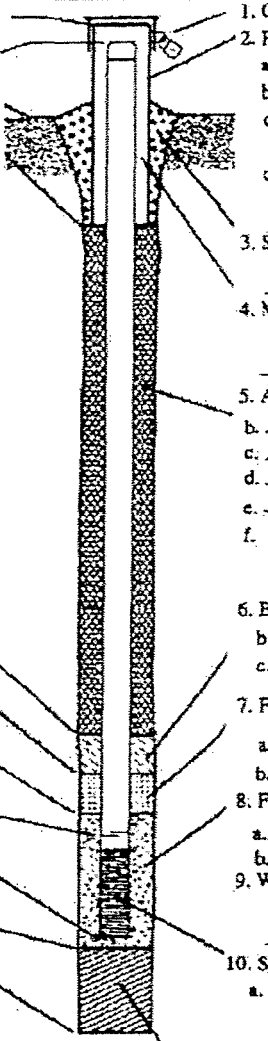
14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top _____ ft. MSL or 5 ft.
F. Fine sand, top _____ ft. MSL or 11 ft.
G. Filter pack, top _____ ft. MSL or 13 ft.
H. Screen joint, top _____ ft. MSL or 15 ft.
I. Well bottom _____ ft. MSL or 20 ft.
J. Filter pack, bottom _____ ft. MSL or 21 ft.
K. Borehole, bottom _____ ft. MSL or 21 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 3 ft.
c. Material: Steel ☒ 04 Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☒ 30 Concrete ☒ 01 Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40 Red Flint
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: ____ ft.
11. Backfill material (below filter pack): None ☐ 14 Other ☒

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Darrin Prentice Firm: Geiss Soil & Samples LLC

Please complete both Form 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ■ Other ☐ _____

Facility/Project Name: Village Cleaners	License/Permit/Monitoring Number	Boring Number: V-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darren Last Name: Prentice Firm: Geiss Soil and Samples, LLC	Date Drilling Started: 10 10 2013 (M M D D Y Y Y Y)	Date Drilling Completed: 10 10 2013 (M M D D Y Y Y Y) Drilling Method: 4 1/4" HAS
WI Unique Well No.	DNR Well ID No.	Common Well Name: V-4
Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL	Borehole Diameter: 8 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E S/C/N	Lat ___ ___ ___ Long ___ ___ ___	Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W
NW 1/4 of SE 1/4 of Section 26, T 28 N, R 13 W		
Facility ID	County: Dunn	DNR County Code: 17
Civil Town/City/ or Village: Menomonie		

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			5	Blind Drill										
			10											
			15											
			20											
			25											
			30											

Thereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Ryan Stupl Firm: Cedar corporation

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this report is mandatory. Failure to file this form may results in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the form should be sent.

V-4 cont.

Sample Number	Sample Length Recovered	Sample Blow Counts	Depth in Feet		USCS	Graphic Log	Well Diagram	PID / FID	Soil Properties: STD Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/Comments
			30	Blind Drill										
			35											
			40											
			45											
			50	T.O.B. @ 50'										
			55											
			60											
			65											
			70											

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Village Cleaners	Local Grid Location of Well ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: V-4
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 10/10/2013 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: ____

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

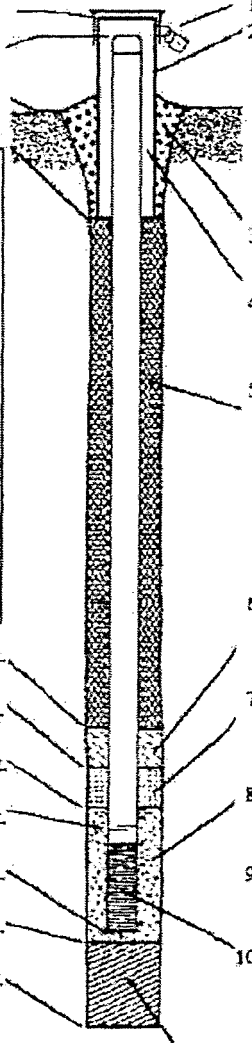
14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐ ____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
____

E. Bentonite seal, top ____ ft. MSL or 5 ft.
F. Fine sand, top ____ ft. MSL or 36 ft.
G. Filter pack, top ____ ft. MSL or 38 ft.
H. Screen joint, top ____ ft. MSL or 40 ft.
I. Well bottom ____ ft. MSL or 50 ft.
J. Filter pack, bottom ____ ft. MSL or 51 ft.
K. Borehole, bottom ____ ft. MSL or 51 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 3 ft.
c. Material: Steel ☒ 04 Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 30 Concrete ☐ 01 Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐ ____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. ____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40 Red Flint
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ ____
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ ____
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None ☐ 14 Other ☒ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Darrin Prentice Firm: Geiss Soil & Samples LLC

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ■ Other ☐ _____

Facility/Project Name: Village Cleaners	License/Permit/Monitoring Number	Boring Number: V-5
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darren Last Name: Prentice Firm: Geiss Soil and Samples, LLC	Date Drilling Started: 10 10 2013 (M M D D Y Y Y Y)	Date Drilling Completed: 10 10 2013 (M M D D Y Y Y Y) Drilling Method: 4 1/4" HAS
WI Unique Well No. / DNR Well ID No. / Common Well Name: V-5	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL Borehole Diameter: 8 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E S/C/N NW 1/4 of SE 1/4 of Section 26, T 28 N, R 13 W	Lat ___ ___ ___ Long	Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W
Facility ID	County: Dunn	DNR County Code: 17 — Civil Town/City/ or Village: Menomonie

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			0	Blind Drill										
			5											
			10											
			15											
			20	E.O.B. @ 20'										
			25											
			30											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Ryan Shope Firm: Cedar corporation

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State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Village Cleaners
Facility License, Permit or Monitoring No.:
Facility ID:
Type of Well — Well Code ____ / ____
Distance from Waste/Source ____ ft. | Enf. Stds. Apply ☐

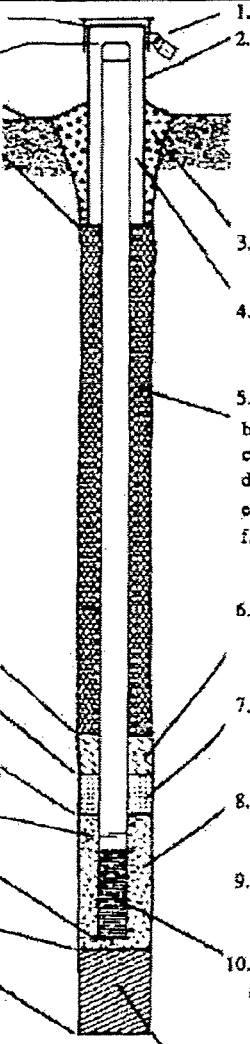
Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.
Local Grid Origin ☐ (estimated: ☐) or Well Location ☐
Lat. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or
St. Plane ____ ft. N, ____ ft. E. S/C/N
Section Location of Waste/Source
____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N. R. ____ ☐E ☐W
Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known
Gov. Lot Number:

Well Name: V-5
Wis. Unique Well No.: _____ DNR Well ID No.: _____
Date Well Installed: 10 / 10 / 2013 (m m d d y y y y)
Well Installed By: Name (first, last) and Firm
Darrin Prentice
Geiss Soil & Samples LLC

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐
13. Sieve analysis performed? ☐ Yes ☒ No
14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐ _____
15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99
16. Drilling additives used? ☐ Yes ☒ No
Describe _____
17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 5 ft.
F. Fine sand, top _____ ft. MSL or 11 ft.
G. Filter pack, top _____ ft. MSL or 13 ft.
H. Screen joint, top _____ ft. MSL or 15 ft.
I. Well bottom _____ ft. MSL or 20 ft.
J. Filter pack, bottom _____ ft. MSL or 21 ft.
K. Borehole, bottom _____ ft. MSL or 21 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☒ 30 Concrete ☒ 01 Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added _____ Ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. #40 Red Flint
b. Volume added _____ Ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ _____
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ _____
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 5 ft.
11. Backfill material (below filter pack): None ☐ 14 Other ☒ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Darrin Prentice Firm: Geiss Soil & Samples LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Appendix E

Disposal Documentation
and
Tank System Site Assessment

Cedar corporation

604 Wilson Avenue
Menomonie, WI 54751

engineers | architects | planners | environmental specialists
land surveyors | landscape architects | interior designers

800-472-7372
715-235-9081
www.cedarcorp.com

September 30, 2013

Patrick Collins
Wisconsin DNR
890 Spruce Street
Baldwin, WI 54002

SUBJECT: Norge Village Cleaners
Menomonie, WI
Tetrachloroethylene Waste "Contained Out" Calculation

Dear Mr. Collins:

Pursuant to NR 668.40, Cedar Corporation is requesting a "contained out" determination of the soil contamination at Norge Village Cleaners. The proposal is to landfill soil contaminated with concentrations of tetrachloroethylene as determined in soil borings B-6 (Figure 1). The upper 4 feet of soil over a 225 square foot area will be removed totaling some 47 tons.

Using the average soil contamination concentration for PERC at this location, a total mass of 0.7 pounds of PERC will be contained in the 33.3 cubic yards to be removed.

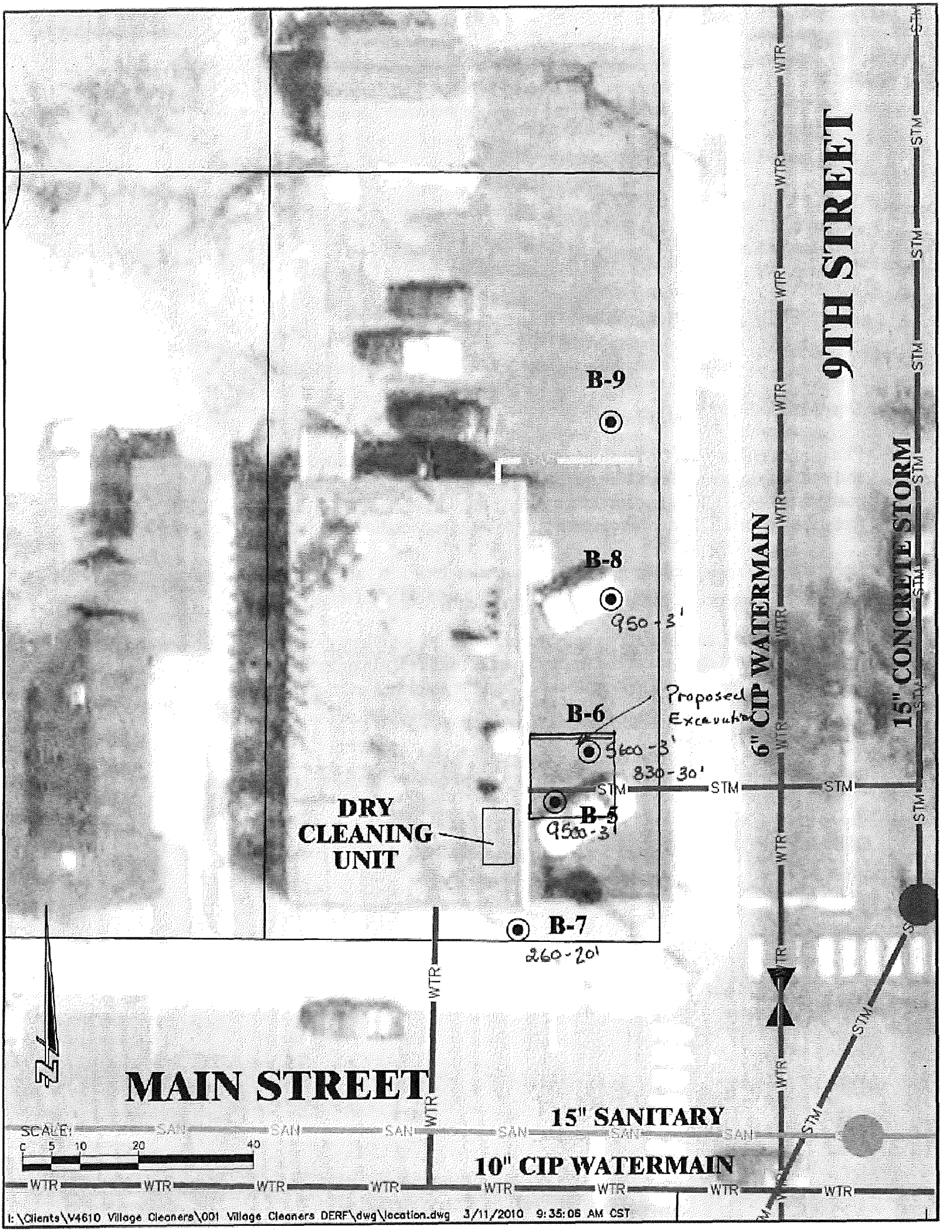
Under NR 668.48, as a hazardous constituent, tetrachloroethylene must be treated to below 6 mg/kg before land disposal of the waste can be considered. In order for the landfill to accept this waste, they require WDNR verification that the solid waste is "contained out" of the land disposal restrictions.

Please do not hesitate to contract me with any questions you may have regarding this project.

Yours truly,
CEDAR CORPORATION

Scott McCurdy, PG

Enclosure


9TH STREET
15" CONCRETE STORM
6" CIP WATERMAIN
B-9
B-8
950-3'
B-6
Proposed Excavation
5600-3'
830-30'
B-5
9500-3'
DRY CLEANING UNIT
B-7
260-20'
MAIN STREET
15" SANITARY
10" CIP WATERMAIN
SCALE:
0 5 10 20 40
WTR
SAN
STM
I:\Clients\V4610 Village Cleaners\001 Village Cleaners DERF\dwg\location.dwg 3/11/2010 9:35:05 AM CST

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

602 Commerce Drive Watertown, WI 53094 * 800-833-7036 * Fax 920-261-8120

November 09, 2009

Client:	CEDAR CORPORATION 604 Wilson Avenue Menomonie, WI 54751	Work Order: Project Name: Project Number:	WSJ1001 Village Cleaners [none]
Attn:	Mr. Matt Taylor	Date Received:	10/29/09

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
B-5 2-4'	WSJ1001-01	10/19/09 10:10
B-5 10-12'	WSJ1001-02	10/19/09 10:10
B-5 26-28'	WSJ1001-03	10/19/09 10:50
B-5 38-40'	WSJ1001-04	10/19/09 11:40
B-6 2-4'	WSJ1001-05	10/22/09 07:45
B-6 13-15'	WSJ1001-06	10/22/09 07:55
B-6 33-35'	WSJ1001-07	10/22/09 08:20
B-6 50-52'	WSJ1001-08	10/22/09 09:30
B-6 62-64'	WSJ1001-09	10/22/09 11:30
B-7 6-8'	WSJ1001-10	10/22/09 12:25
B-7 18-20'	WSJ1001-11	10/22/09 12:50
B-7 33-35'	WSJ1001-12	10/22/09 13:15
B-7 48-50'	WSJ1001-13	10/22/09 14:10
B-8 3-5'	WSJ1001-14	10/22/09 14:30
B-8 18-20'	WSJ1001-15	10/22/09 14:50
B-8 48-50'	WSJ1001-16	10/22/09 16:10
B-9 3-5'	WSJ1001-17	10/22/09 16:30
B-9 13-15'	WSJ1001-18	10/22/09 16:40
B-9 33-35'	WSJ1001-19	10/22/09 17:25
B-9 38-40'	WSJ1001-20	10/22/09 17:50

Samples were received on ice into laboratory at a temperature of 0 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, PVOC, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Approved By:

Brian DeJong

TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
602 Commerce Drive Watertown, WI 53094 * 800-833-7038 * Fax 920-261-8120

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-01 (B-5 2-4' - Soil)						**Sampled: 10/19/09 10:10**			
General Chemistry Parameters									
% Solids	93		%	NA	1	11/06/09 15:47	pam	9110197	SW 5035
VOCs by SW8260B									
Benzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Bromobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Bromochloromethane	<38		ug/kg dry	38	1	10/29/09 19:04	lek	9100794	SW 8260B
Bromodichloromethane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Bromoform	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Bromomethane	<110		ug/kg dry	110	1	10/29/09 19:04	lek	9100794	SW 8260B
n-Butylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
sec-Butylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
tert-Butylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Carbon Tetrachloride	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Chlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Chlorodibromomethane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Chloroethane	<54		ug/kg dry	54	1	10/29/09 19:04	lek	9100794	SW 8260B
Chloroform	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Chloromethane	<54		ug/kg dry	54	1	10/29/09 19:04	lek	9100794	SW 8260B
2-Chlorotoluene	<54		ug/kg dry	54	1	10/29/09 19:04	lek	9100794	SW 8260B
4-Chlorotoluene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,2-Dibromo-3-chloropropane	<54		ug/kg dry	54	1	10/29/09 19:04	lek	9100794	SW 8260B
1,2-Dibromoethane (EDB)	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Dibromomethane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,2-Dichlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,3-Dichlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,4-Dichlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Dichlorodifluoromethane	<54		ug/kg dry	54	1	10/29/09 19:04	lek	9100794	SW 8260B
1,1-Dichloroethane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,2-Dichloroethane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,1-Dichloroethene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
cis-1,2-Dichloroethene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
trans-1,2-Dichloroethene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,2-Dichloropropane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,3-Dichloropropane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
2,2-Dichloropropane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,1-Dichloropropene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
cis-1,3-Dichloropropene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
trans-1,3-Dichloropropene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
2,3-Dichloropropene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Isopropyl Ether	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Ethylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Hexachlorobutadiene	<38		ug/kg dry	38	1	10/29/09 19:04	lek	9100794	SW 8260B
Isopropylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
p-Isopropyltoluene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Methylene Chloride	<54		ug/kg dry	54	1	10/29/09 19:04	lek	9100794	SW 8260B
Methyl tert-Butyl Ether	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Naphthalene	<54		ug/kg dry	54	1	10/29/09 19:04	lek	9100794	SW 8260B
n-Propylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Styrene	<54		ug/kg dry	54	1	10/29/09 19:04	lek	9100794	SW 8260B
1,1,1,2-Tetrachloroethane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,1,2,2-Tetrachloroethane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B

TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-01RE1 (B-5 2-4' - Soil) - cont.						**Sampled: 10/19/09 10:10**			
VOCs by SW8260B - cont.									
Tetrachloroethene	9500		ug/kg dry	54	2	10/30/09 12:05	lek	9100809	SW 8260B
Toluene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,2,3-Trichlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,2,4-Trichlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,1,1-Trichloroethane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,1,2-Trichloroethane	<38		ug/kg dry	38	1	10/29/09 19:04	lek	9100794	SW 8260B
Trichloroethene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Trichlorofluoromethane	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,2,3-Trichloropropane	<54		ug/kg dry	54	1	10/29/09 19:04	lek	9100794	SW 8260B
1,2,4-Trimethylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
1,3,5-Trimethylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lek	9100794	SW 8260B
Vinyl chloride	<38		ug/kg dry	38	1	10/29/09 19:04	lek	9100794	SW 8260B
Xylenes, total	<91		ug/kg dry	91	1	10/29/09 19:04	lek	9100794	SW 8260B
Surr: Dibromofluoromethane (82-112%)	*92 %*								
Surr: Dibromofluoromethane (82-112%)	*90 %*								
Surr: Toluene-d8 (91-106%)	*99 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*101 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*100 %*								
Sample ID: WSJ1001-02 (B-5 10-12' - Soil)						**Sampled: 10/19/09 10:10**			
General Chemistry Parameters									
% Solids	97		%	NA	1	11/06/09 15:47	pam	9110197	SW 5035
VOCs by SW8260B									
Benzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Bromobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Bromochloromethane	<36		ug/kg dry	36	1	10/29/09 19:30	lek	9100794	SW 8260B
Bromodichloromethane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Bromoform	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Bromomethane	<100		ug/kg dry	100	1	10/29/09 19:30	lek	9100794	SW 8260B
n-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
sec-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
tert-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Carbon Tetrachloride	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Chlorobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Chlorodibromomethane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Chloroethane	<52		ug/kg dry	52	1	10/29/09 19:30	lek	9100794	SW 8260B
Chloroform	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Chloromethane	<52		ug/kg dry	52	1	10/29/09 19:30	lek	9100794	SW 8260B
2-Chlorotoluene	<52		ug/kg dry	52	1	10/29/09 19:30	lek	9100794	SW 8260B
4-Chlorotoluene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,2-Dibromo-3-chloropropane	<52		ug/kg dry	52	1	10/29/09 19:30	lek	9100794	SW 8260B
1,2-Dibromoethane (EDB)	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Dibromomethane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,2-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,3-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,4-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Dichlorodifluoromethane	<52		ug/kg dry	52	1	10/29/09 19:30	lek	9100794	SW 8260B
1,1-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,2-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,1-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
cis-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-02 (B-5 10-12' - Soil) - cont.						**Sampled: 10/19/09 10:10**			
VOCs by SW8260B - cont.									
trans-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,3-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
2,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,1-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
cis-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
trans-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
2,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Isopropyl Ether	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Ethylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Hexachlorobutadiene	<36		ug/kg dry	36	1	10/29/09 19:30	lek	9100794	SW 8260B
Isopropylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
p-Isopropyltoluene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Methylene Chloride	<52		ug/kg dry	52	1	10/29/09 19:30	lek	9100794	SW 8260B
Methyl tert-Butyl Ether	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Naphthalene	<52		ug/kg dry	52	1	10/29/09 19:30	lek	9100794	SW 8260B
n-Propylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Styrene	<52		ug/kg dry	52	1	10/29/09 19:30	lek	9100794	SW 8260B
1,1,1,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,1,2,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Tetrachloroethene	170		ug/kg dry	26	1	10/30/09 10:20	lek	9100809	SW 8260B
Toluene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,2,3-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,2,4-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,1,1-Trichloroethane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,1,2-Trichloroethane	<36		ug/kg dry	36	1	10/29/09 19:30	lek	9100794	SW 8260B
Trichloroethene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Trichlorofluoromethane	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,2,3-Trichloropropane	<52		ug/kg dry	52	1	10/29/09 19:30	lek	9100794	SW 8260B
1,2,4-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
1,3,5-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lek	9100794	SW 8260B
Vinyl chloride	<36		ug/kg dry	36	1	10/29/09 19:30	lek	9100794	SW 8260B
Xylenes, total	<88		ug/kg dry	88	1	10/29/09 19:30	lek	9100794	SW 8260B
Surr: Dibromofluoromethane (82-112%)	*91 %*								
Surr: Dibromofluoromethane (82-112%)	*93 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: Toluene-d8 (91-106%)	*99 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*100 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*102 %*								

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
502 Commerce Drive Watertown, WI 53094 * 800-833-7036 * Fax 920-261-8120

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-03 (B-5 26-28' - Soil)						**Sampled: 10/19/09 10:50**			
General Chemistry Parameters									
% Solids	96		%	NA	1	11/06/09 15:47	pam	9110197	SW 5035
VOCs by SW8260B									
Benzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Bromobenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Bromochloromethane	<40		ug/kg dry	40	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Bromodichloromethane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Bromoform	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Bromomethane	<110		ug/kg dry	110	1.1	10/29/09 19:56	lek	9100794	SW 8260B
n-Butylbenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
sec-Butylbenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
tert-Butylbenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Carbon Tetrachloride	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Chlorobenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Chlorodibromomethane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Chloroethane	<57		ug/kg dry	57	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Chloroform	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Chloromethane	<57		ug/kg dry	57	1.1	10/29/09 19:56	lek	9100794	SW 8260B
2-Chlorotoluene	<57		ug/kg dry	57	1.1	10/29/09 19:56	lek	9100794	SW 8260B
4-Chlorotoluene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,2-Dibromo-3-chloropropane	<57		ug/kg dry	57	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,2-Dibromoethane (EDB)	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Dibromomethane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,2-Dichlorobenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,3-Dichlorobenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,4-Dichlorobenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Dichlorodifluoromethane	<57		ug/kg dry	57	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,1-Dichloroethane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,2-Dichloroethane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,1-Dichloroethene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
cis-1,2-Dichloroethene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
trans-1,2-Dichloroethene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,2-Dichloropropane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,3-Dichloropropane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
2,2-Dichloropropane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,1-Dichloropropene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
cis-1,3-Dichloropropene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
trans-1,3-Dichloropropene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
2,3-Dichloropropene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Isopropyl Ether	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Ethylbenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Hexachlorobutadiene	<40		ug/kg dry	40	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Isopropylbenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
p-Isopropyltoluene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Methylene Chloride	<57		ug/kg dry	57	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Methyl tert-Butyl Ether	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Naphthalene	<57		ug/kg dry	57	1.1	10/29/09 19:56	lek	9100794	SW 8260B
n-Propylbenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Styrene	<57		ug/kg dry	57	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,1,1,2-Tetrachloroethane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,1,2,2-Tetrachloroethane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Tetrachloroethene	370		ug/kg dry	29	1.1	10/30/09 10:46	lek	9100809	SW 8260B
Toluene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B

TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-03 (B-5 26-28' - Soil) - cont.						**Sampled: 10/19/09 10:50**			
VOCs by SW8260B - cont.									
1,2,3-Trichlorobenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,2,4-Trichlorobenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,1,1-Trichloroethane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,1,2-Trichloroethane	<40		ug/kg dry	40	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Trichloroethene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Trichlorofluoromethane	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,2,3-Trichloropropane	<57		ug/kg dry	57	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,2,4-Trimethylbenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
1,3,5-Trimethylbenzene	<29		ug/kg dry	29	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Vinyl chloride	<40		ug/kg dry	40	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Xylenes, total	<97		ug/kg dry	97	1.1	10/29/09 19:56	lek	9100794	SW 8260B
Surr: Dibromofluoromethane (82-112%)	*92 %*								
Surr: Dibromofluoromethane (82-112%)	*92 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*102 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*101 %*								
Sample ID: WSJ1001-04 (B-5 38-40' - Soil)						**Sampled: 10/19/09 11:40**			
General Chemistry Parameters									
% Solids	97		%	NA	1	11/05/09 15:47	pam	9110197	SW 5035
VOCs by SW8260B									
Benzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Bromobenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Bromochloromethane	<36		ug/kg dry	36	1	10/29/09 20:22	lek	9100794	SW 8260B
Bromodichloromethane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Bromoform	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Bromomethane	<100		ug/kg dry	100	1	10/29/09 20:22	lek	9100794	SW 8260B
n-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
sec-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
tert-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Carbon Tetrachloride	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Chlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Chlorodibromomethane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Chloroethane	<51		ug/kg dry	51	1	10/29/09 20:22	lek	9100794	SW 8260B
Chloroform	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Chloromethane	<51		ug/kg dry	51	1	10/29/09 20:22	lek	9100794	SW 8260B
2-Chlorotoluene	<51		ug/kg dry	51	1	10/29/09 20:22	lek	9100794	SW 8260B
4-Chlorotoluene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,2-Dibromo-3-chloropropane	<51		ug/kg dry	51	1	10/29/09 20:22	lek	9100794	SW 8260B
1,2-Dibromoethane (EDB)	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Dibromomethane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,2-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,3-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,4-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Dichlorodifluoromethane	<51		ug/kg dry	51	1	10/29/09 20:22	lek	9100794	SW 8260B
1,1-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,2-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,1-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
cis-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
trans-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B

TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-04 (B-5 38-40' - Soil) - cont.						**Sampled: 10/19/09 11:40**			
VOCs by SW8260B - cont.									
1,3-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
2,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,1-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
cis-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
trans-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
2,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Isopropyl Ether	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Ethylbenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Hexachlorobutadiene	<36		ug/kg dry	36	1	10/29/09 20:22	lek	9100794	SW 8260B
Isopropylbenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
p-Isopropyltoluene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Methylene Chloride	<51		ug/kg dry	51	1	10/29/09 20:22	lek	9100794	SW 8260B
Methyl tert-Butyl Ether	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Naphthalene	<51		ug/kg dry	51	1	10/29/09 20:22	lek	9100794	SW 8260B
n-Propylbenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Styrene	<51		ug/kg dry	51	1	10/29/09 20:22	lek	9100794	SW 8260B
1,1,1,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,1,2,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Tetrachloroethene	180		ug/kg dry	26	1	10/30/09 11:13	lek	9100809	SW 8260B
Toluene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,2,3-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,2,4-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,1,1-Trichloroethane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,1,2-Trichloroethane	<36		ug/kg dry	36	1	10/29/09 20:22	lek	9100794	SW 8260B
Trichloroethene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Trichlorofluoromethane	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,2,3-Trichloropropane	<51		ug/kg dry	51	1	10/29/09 20:22	lek	9100794	SW 8260B
1,2,4-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
1,3,5-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 20:22	lek	9100794	SW 8260B
Vinyl chloride	<36		ug/kg dry	36	1	10/29/09 20:22	lek	9100794	SW 8260B
Xylenes, total	<87		ug/kg dry	87	1	10/29/09 20:22	lek	9100794	SW 8260B
Surr: Dibromofluoromethane (82-112%)	*91 %*								
Surr: Dibromofluoromethane (82-112%)	*93 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*100 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*101 %*								

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-05 (B-6 2-4' - Soil)						**Sampled: 10/22/09 07:45**			
General Chemistry Parameters									
% Solids	95		%	NA	1	11/06/09 15:47	pam	9110197	SW 5035
VOCs by SW8260B									
Benzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Bromobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Bromochloromethane	<37		ug/kg dry	37	1	10/29/09 20:48	lek	9100794	SW 8260B
Bromodichloromethane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Bromoform	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Bromomethane	<110		ug/kg dry	110	1	10/29/09 20:48	lek	9100794	SW 8260B
n-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
sec-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
tert-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Carbon Tetrachloride	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Chlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Chlorodibromomethane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Chloroethane	<53		ug/kg dry	53	1	10/29/09 20:48	lek	9100794	SW 8260B
Chloroform	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Chloromethane	<53		ug/kg dry	53	1	10/29/09 20:48	lek	9100794	SW 8260B
2-Chlorotoluene	<53		ug/kg dry	53	1	10/29/09 20:48	lek	9100794	SW 8260B
4-Chlorotoluene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,2-Dibromo-3-chloropropane	<53		ug/kg dry	53	1	10/29/09 20:48	lek	9100794	SW 8260B
1,2-Dibromoethane (EDB)	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Dibromomethane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,2-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,3-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,4-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Dichlorodifluoromethane	<53		ug/kg dry	53	1	10/29/09 20:48	lek	9100794	SW 8260B
1,1-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,2-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,1-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
cis-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
trans-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,3-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
2,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,1-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
cis-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
trans-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
2,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Isopropyl Ether	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Ethylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Hexachlorobutadiene	<37		ug/kg dry	37	1	10/29/09 20:48	lek	9100794	SW 8260B
Isopropylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
p-Isopropyltoluene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Methylene Chloride	<53		ug/kg dry	53	1	10/29/09 20:48	lek	9100794	SW 8260B
Methyl tert-Butyl Ether	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Naphthalene	<53		ug/kg dry	53	1	10/29/09 20:48	lek	9100794	SW 8260B
n-Propylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Styrene	<53		ug/kg dry	53	1	10/29/09 20:48	lek	9100794	SW 8260B
1,1,1,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,1,2,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Tetrachloroethene	5600		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Toluene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B

TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-05 (B-6 2-4' - Soil) - cont.						**Sampled: 10/22/09 07:45**			
VOCs by SW8260B - cont.									
1,2,3-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,2,4-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,1,1-Trichloroethane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,1,2-Trichloroethane	<37		ug/kg dry	37	1	10/29/09 20:48	lek	9100794	SW 8260B
Trichloroethene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Trichlorofluoromethane	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,2,3-Trichloropropane	<53		ug/kg dry	53	1	10/29/09 20:48	lek	9100794	SW 8260B
1,2,4-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
1,3,5-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lek	9100794	SW 8260B
Vinyl chloride	<37		ug/kg dry	37	1	10/29/09 20:48	lek	9100794	SW 8260B
Xylenes, total	<90		ug/kg dry	90	1	10/29/09 20:48	lek	9100794	SW 8260B
Surr: Dibromofluoromethane (82-112%)	*93 %*								
Surr: Toluene-d8 (91-110%)	*99 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*99 %*								
Sample ID: WSJ1001-06 (B-6 13-15' - Soil)						**Sampled: 10/22/09 07:55**			
General Chemistry Parameters									
% Solids	97		%	NA	1	11/06/09 15:47	pam	9110197	SW 5035
VOCs by SW8260B									
Benzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Bromobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Bromochloromethane	<36		ug/kg dry	36	1	10/29/09 21:15	lek	9100794	SW 8260B
Bromodichloromethane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Bromoform	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Bromomethane	<100		ug/kg dry	100	1	10/29/09 21:15	lek	9100794	SW 8260B
n-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
sec-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
tert-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Carbon Tetrachloride	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Chlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Chlorodibromomethane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Chloroethane	<52		ug/kg dry	52	1	10/29/09 21:15	lek	9100794	SW 8260B
Chloroform	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Chloromethane	<52		ug/kg dry	52	1	10/29/09 21:15	lek	9100794	SW 8260B
2-Chlorotoluene	<52		ug/kg dry	52	1	10/29/09 21:15	lek	9100794	SW 8260B
4-Chlorotoluene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,2-Dibromo-3-chloropropane	<52		ug/kg dry	52	1	10/29/09 21:15	lek	9100794	SW 8260B
1,2-Dibromoethane (EDB)	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Dibromomethane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,2-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,3-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,4-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Dichlorodifluoromethane	<52		ug/kg dry	52	1	10/29/09 21:15	lek	9100794	SW 8260B
1,1-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,2-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,1-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
cis-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
trans-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,3-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
2,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,1-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B

TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-06 (B-6 13-15' - Soil) - cont.						**Sampled: 10/22/09 07:55**			
VOCs by SW8260B - cont									
cis-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
trans-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
2,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Isopropyl Ether	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Ethylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Hexachlorobutadiene	<36		ug/kg dry	36	1	10/29/09 21:15	lek	9100794	SW 8260B
Isopropylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
p-Isopropyltoluene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Methylene Chloride	<52		ug/kg dry	52	1	10/29/09 21:15	lek	9100794	SW 8260B
Methyl tert-Butyl Ether	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Naphthalene	<52		ug/kg dry	52	1	10/29/09 21:15	lek	9100794	SW 8260B
n-Propylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Styrene	<52		ug/kg dry	52	1	10/29/09 21:15	lek	9100794	SW 8260B
1,1,1,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,1,2,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Tetrachloroethene	**110**		ug/kg dry	26	1	10/30/09 11:39	lek	9100809	SW 8260B
Toluene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,2,3-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,2,4-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,1,1-Trichloroethane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,1,2-Trichloroethane	<36		ug/kg dry	36	1	10/29/09 21:15	lek	9100794	SW 8260B
Trichloroethene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Trichlorofluoromethane	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,2,3-Trichloropropane	<52		ug/kg dry	52	1	10/29/09 21:15	lek	9100794	SW 8260B
1,2,4-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
1,3,5-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lek	9100794	SW 8260B
Vinyl chloride	<36		ug/kg dry	36	1	10/29/09 21:15	lek	9100794	SW 8260B
Xylenes, total	<88		ug/kg dry	88	1	10/29/09 21:15	lek	9100794	SW 8260B
Surr: Dibromofluoromethane (82-112%)	*91 %*								
Surr: Dibromofluoromethane (82-112%)	*91 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*100 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*101 %*								

Advanced Disposal

Special Waste Profile Sheet

PROFILE #	
Original submittal Recertification	☐ ☐
One time project	☐

Designated Facility: Advanced Disposal Seven Mile Creek Landfill Sales Representative: Jim Davis

A. Generator

Name: NORGE VILLAGE CLEANERS
Site Address: 821 MAIN ST
City, State, Zip: MENOMONIE, WI 54751
Contact: DENNY BODOH
Phone: 715-235-5900
Fax:

B. Billing

Name: NORGE VILLAGE CLEANERS
Address: 821 MAIN ST
City, State, Zip: MENOMONIE WI 54751
Contact: DENNY BODOH
Phone: 715 235 5900

C. Description of Waste

Name of Waste: CONTAMINATED SOIL Process Generating Waste: PERC Leak

Estimated Volume: 65 tons
Frequency: once
Physical State: Solid Color: light brown Free Liquids: 0
Flash Point (°F): — pH: — Total Solids: —

D. Other Waste Data or Comments

E. Sample Information

Check all that apply:

☐ Sample submitted with profile ☑ Laboratory Analysis submitted ☐ Material Safety Data Sheet Submitted

Laboratory Name: TestAmerica Sample Date: 10/19/09 Sample I.D.: WSJ 1001-01 WSJ 1001-05

F. Generator Certifications

1. This waste is not a hazardous waste as defined in Wisconsin Administrative Code NR 661 or 40 CFR 261.
2. This waste does not contain regulated quantities of PCB's.
3. This waste does not contain regulated quantities of herbicides or pesticides.
4. This waste does not contain regulated quantities of F500 solvents as specified in Wisconsin Administrative Code NR 605.
5. This waste does not contain infectious wastes as defined in Wisconsin Administrative Code NR 526.
6. All information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix 1 and was obtained by using this or an equivalent sampling method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

Generator's Signature: Denny Bodoh Title: OWNER

Print Name: DENNY BODOH Date: Oct 2, 2013

G. Landfill Approval

My approval is based upon the laboratory analysis of a representative sample and/or material safety data sheets submitted by the generator.

Landfill Signature _____ Date _____
Approvals Signature _____ Date _____
Waste Category _____ Analytical Protocol _____ Disposal Operation _____ Recert. Date _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
602 Commerce Drive Watertown, WI 53094 * 800-833-7036 * Fax 920-261-8120

November 09, 2009

Client: CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751

Attn: Mr. Matt Taylor

Work Order: WSJ1001
Project Name: Village Cleaners
Project Number: [none]

Date Received: 10/29/09

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
B-5 2-4'	WSJ1001-01	10/19/09 10:10
B-5 10-12'	WSJ1001-02	10/19/09 10:10
B-5 26-28'	WSJ1001-03	10/19/09 10:50
B-5 38-40'	WSJ1001-04	10/19/09 11:40
B-6 2-4'	WSJ1001-05	10/22/09 07:45
B-6 13-15'	WSJ1001-06	10/22/09 07:55
B-6 33-35'	WSJ1001-07	10/22/09 08:20
B-6 50-52'	WSJ1001-08	10/22/09 09:30
B-6 62-64'	WSJ1001-09	10/22/09 11:30
B-7 6-8'	WSJ1001-10	10/22/09 12:25
B-7 18-20'	WSJ1001-11	10/22/09 12:50
B-7 33-35'	WSJ1001-12	10/22/09 13:15
B-7 48-50'	WSJ1001-13	10/22/09 14:10
B-8 3-5'	WSJ1001-14	10/22/09 14:30
B-8 18-20'	WSJ1001-15	10/22/09 14:50
B-8 48-50'	WSJ1001-16	10/22/09 16:10
B-9 3-5'	WSJ1001-17	10/22/09 16:30
B-9 13-15'	WSJ1001-18	10/22/09 16:40
B-9 33-35'	WSJ1001-19	10/22/09 17:25
B-9 38-40'	WSJ1001-20	10/22/09 17:50

Samples were received on ice into laboratory at a temperature of 0 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, PVOC, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Approved By:

Brian DeJong

TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-01 (B-5 2-4' - Soil)						**Sampled: 10/19/09 10:10**			
General Chemistry Parameters									
% Solids	93		%	NA	1	11/06/09 15:47	pam	9110197	SW 5035
VOCs by SW8260B									
Benzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Bromobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Bromochloromethane	<38		ug/kg dry	38	1	10/29/09 19:04	lck	9100794	SW 8260B
Bromodichloromethane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Bromoform	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Bromomethane	<110		ug/kg dry	110	1	10/29/09 19:04	lck	9100794	SW 8260B
n-Butylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
sec-Butylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
tert-Butylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Carbon Tetrachloride	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Chlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Chlorodibromomethane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Chloroethane	<54		ug/kg dry	54	1	10/29/09 19:04	lck	9100794	SW 8260B
Chloroform	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Chloromethane	<54		ug/kg dry	54	1	10/29/09 19:04	lck	9100794	SW 8260B
2-Chlorotoluene	<54		ug/kg dry	54	1	10/29/09 19:04	lck	9100794	SW 8260B
4-Chlorotoluene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,2-Dibromo-3-chloropropane	<54		ug/kg dry	54	1	10/29/09 19:04	lck	9100794	SW 8260B
1,2-Dibromoethane (EDB)	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Dibromomethane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,2-Dichlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,3-Dichlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,4-Dichlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Dichlorodifluoromethane	<54		ug/kg dry	54	1	10/29/09 19:04	lck	9100794	SW 8260B
1,1-Dichloroethane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,2-Dichloroethane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,1-Dichloroethene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
cis-1,2-Dichloroethene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
trans-1,2-Dichloroethene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,2-Dichloropropane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,3-Dichloropropane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
2,2-Dichloropropane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,1-Dichloropropene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
cis-1,3-Dichloropropene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
trans-1,3-Dichloropropene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
2,3-Dichloropropene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Isopropyl Ether	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Ethylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Hexachlorobutadiene	<38		ug/kg dry	38	1	10/29/09 19:04	lck	9100794	SW 8260B
Isopropylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
p-Isopropyltoluene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Methylene Chloride	<54		ug/kg dry	54	1	10/29/09 19:04	lck	9100794	SW 8260B
Methyl tert-Butyl Ether	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Naphthalene	<54		ug/kg dry	54	1	10/29/09 19:04	lck	9100794	SW 8260B
n-Propylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Styrene	<54		ug/kg dry	54	1	10/29/09 19:04	lck	9100794	SW 8260B
1,1,1,2-Tetrachloroethane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,1,2,2-Tetrachloroethane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B

TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-01RE1 (B-5 2-4' - Soil) - cont.						**Sampled: 10/19/09 10:10**			
VOCs by SW8260B - cont.									
Tetrachloroethene	**9500**		ug/kg dry	54	2	10/30/09 12:05	lck	9100809	SW 8260B
Toluene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,2,3-Trichlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,2,4-Trichlorobenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,1,1-Trichloroethane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,1,2-Trichloroethane	<38		ug/kg dry	38	1	10/29/09 19:04	lck	9100794	SW 8260B
Trichloroethene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Trichlorofluoromethane	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,2,3-Trichloropropane	<54		ug/kg dry	54	1	10/29/09 19:04	lck	9100794	SW 8260B
1,2,4-Trimethylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
1,3,5-Trimethylbenzene	<27		ug/kg dry	27	1	10/29/09 19:04	lck	9100794	SW 8260B
Vinyl chloride	<38		ug/kg dry	38	1	10/29/09 19:04	lck	9100794	SW 8260B
Xylenes, total	<91		ug/kg dry	91	1	10/29/09 19:04	lck	9100794	SW 8260B
Surr: Dibromofluoromethane (82-112%)	*92 %*								
Surr: Dibromofluoromethane (82-112%)	*90 %*								
Surr: Toluene-d8 (91-106%)	*99 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*101 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*100 %*								
Sample ID: WSJ1001-02 (B-5 10-12' - Soil)						**Sampled: 10/19/09 10:10**			
General Chemistry Parameters									
% Solids	**97**		%	NA	1	11/06/09 15:47	pam	9110197	SW 5035
VOCs by SW8260B									
Benzene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Bromobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Bromochloromethane	<36		ug/kg dry	36	1	10/29/09 19:30	lck	9100794	SW 8260B
Bromodichloromethane	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Bromoform	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Bromomethane	<100		ug/kg dry	100	1	10/29/09 19:30	lck	9100794	SW 8260B
n-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
sec-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
tert-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Carbon Tetrachloride	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Chlorobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Chlorodibromomethane	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Chloroethane	<52		ug/kg dry	52	1	10/29/09 19:30	lck	9100794	SW 8260B
Chloroform	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Chloromethane	<52		ug/kg dry	52	1	10/29/09 19:30	lck	9100794	SW 8260B
2-Chlorotoluene	<52		ug/kg dry	52	1	10/29/09 19:30	lck	9100794	SW 8260B
4-Chlorotoluene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
1,2-Dibromo-3-chloropropane	<52		ug/kg dry	52	1	10/29/09 19:30	lck	9100794	SW 8260B
1,2-Dibromoethane (EDB)	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Dibromomethane	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
1,2-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
1,3-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
1,4-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
Dichlorodifluoromethane	<52		ug/kg dry	52	1	10/29/09 19:30	lck	9100794	SW 8260B
1,1-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
1,2-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
1,1-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B
cis-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 19:30	lck	9100794	SW 8260B

TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-05 (B-6 2-4' - Soil)						**Sampled: 10/22/09 07:45**			
General Chemistry Parameters									
% Solids	95		%	NA	1	11/06/09 15:47	pam	9110197	SW 5035
VOCs by SW8260B									
Benzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Bromobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Bromochloromethane	<37		ug/kg dry	37	1	10/29/09 20:48	lck	9100794	SW 8260B
Bromodichloromethane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Bromoform	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Bromomethane	<110		ug/kg dry	110	1	10/29/09 20:48	lck	9100794	SW 8260B
n-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
sec-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
tert-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Carbon Tetrachloride	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Chlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Chlorodibromomethane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Chloroethane	<53		ug/kg dry	53	1	10/29/09 20:48	lck	9100794	SW 8260B
Chloroform	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Chloromethane	<53		ug/kg dry	53	1	10/29/09 20:48	lck	9100794	SW 8260B
2-Chlorotoluene	<53		ug/kg dry	53	1	10/29/09 20:48	lck	9100794	SW 8260B
4-Chlorotoluene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,2-Dibromo-3-chloropropane	<53		ug/kg dry	53	1	10/29/09 20:48	lck	9100794	SW 8260B
1,2-Dibromoethane (EDB)	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Dibromomethane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,2-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,3-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,4-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Dichlorodifluoromethane	<53		ug/kg dry	53	1	10/29/09 20:48	lck	9100794	SW 8260B
1,1-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,2-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,1-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
cis-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
trans-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,3-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
2,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,1-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
cis-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
trans-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
2,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Isopropyl Ether	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Ethylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Hexachlorobutadiene	<37		ug/kg dry	37	1	10/29/09 20:48	lck	9100794	SW 8260B
Isopropylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
p-Isopropyltoluene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Methylene Chloride	<53		ug/kg dry	53	1	10/29/09 20:48	lck	9100794	SW 8260B
Methyl tert-Butyl Ether	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Naphthalene	<53		ug/kg dry	53	1	10/29/09 20:48	lck	9100794	SW 8260B
n-Propylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Styrene	<53		ug/kg dry	53	1	10/29/09 20:48	lck	9100794	SW 8260B
1,1,1,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,1,2,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Tetrachloroethene	**5600**		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Toluene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B

TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-05 (B-6 2-4' - Soil) - cont.						**Sampled: 10/22/09 07:45**			
VOCs by SW8260B - cont.									
1,2,3-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,2,4-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,1,1-Trichloroethane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,1,2-Trichloroethane	<37		ug/kg dry	37	1	10/29/09 20:48	lck	9100794	SW 8260B
Trichloroethene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Trichlorofluoromethane	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,2,3-Trichloropropane	<53		ug/kg dry	53	1	10/29/09 20:48	lck	9100794	SW 8260B
1,2,4-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
1,3,5-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 20:48	lck	9100794	SW 8260B
Vinyl chloride	<37		ug/kg dry	37	1	10/29/09 20:48	lck	9100794	SW 8260B
Xylenes, total	<90		ug/kg dry	90	1	10/29/09 20:48	lck	9100794	SW 8260B
Surr: Dibromofluoromethane (82-112%)	*93 %*								
Surr: Toluene-d8 (91-106%)	*99 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*99 %*								
Sample ID: WSJ1001-06 (B-6 13-15' - Soil)						**Sampled: 10/22/09 07:55**			
General Chemistry Parameters									
% Solids	97		%	NA	1	11/06/09 15:47	pam	9110197	SW 5035
VOCs by SW8260B									
Benzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Bromobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Bromochloromethane	<36		ug/kg dry	36	1	10/29/09 21:15	lck	9100794	SW 8260B
Bromodichloromethane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Bromoform	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Bromomethane	<100		ug/kg dry	100	1	10/29/09 21:15	lck	9100794	SW 8260B
n-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
sec-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
tert-Butylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Carbon Tetrachloride	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Chlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Chlorodibromomethane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Chloroethane	<52		ug/kg dry	52	1	10/29/09 21:15	lck	9100794	SW 8260B
Chloroform	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Chloromethane	<52		ug/kg dry	52	1	10/29/09 21:15	lck	9100794	SW 8260B
2-Chlorotoluene	<52		ug/kg dry	52	1	10/29/09 21:15	lck	9100794	SW 8260B
4-Chlorotoluene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,2-Dibromo-3-chloropropane	<52		ug/kg dry	52	1	10/29/09 21:15	lck	9100794	SW 8260B
1,2-Dibromoethane (EDB)	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Dibromomethane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,2-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,3-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,4-Dichlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Dichlorodifluoromethane	<52		ug/kg dry	52	1	10/29/09 21:15	lck	9100794	SW 8260B
1,1-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,2-Dichloroethane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,1-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
cis-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
trans-1,2-Dichloroethene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,3-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
2,2-Dichloropropane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,1-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B

CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Mr. Matt Taylor

Work Order: WSJ1001
Project: Village Cleaners
Project Number: [none]

Received: 10/29/09
Reported: 11/09/09 12:10

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WSJ1001-06 (B-6 13-15' - Soil) - cont.						**Sampled: 10/22/09 07:55**			
VOCs by SW8260B - cont.									
cis-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
trans-1,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
2,3-Dichloropropene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Isopropyl Ether	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Ethylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Hexachlorobutadiene	<36		ug/kg dry	36	1	10/29/09 21:15	lck	9100794	SW 8260B
Isopropylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
p-Isopropyltoluene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Methylene Chloride	<52		ug/kg dry	52	1	10/29/09 21:15	lck	9100794	SW 8260B
Methyl tert-Butyl Ether	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Naphthalene	<52		ug/kg dry	52	1	10/29/09 21:15	lck	9100794	SW 8260B
n-Propylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Styrene	<52		ug/kg dry	52	1	10/29/09 21:15	lck	9100794	SW 8260B
1,1,1,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,1,2,2-Tetrachloroethane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Tetrachloroethene	**110**		ug/kg dry	26	1	10/30/09 11:39	lck	9100809	SW 8260B
Toluene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,2,3-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,2,4-Trichlorobenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,1,1-Trichloroethane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,1,2-Trichloroethane	<36		ug/kg dry	36	1	10/29/09 21:15	lck	9100794	SW 8260B
Trichloroethene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Trichlorofluoromethane	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,2,3-Trichloropropane	<52		ug/kg dry	52	1	10/29/09 21:15	lck	9100794	SW 8260B
1,2,4-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
1,3,5-Trimethylbenzene	<26		ug/kg dry	26	1	10/29/09 21:15	lck	9100794	SW 8260B
Vinyl chloride	<36		ug/kg dry	36	1	10/29/09 21:15	lck	9100794	SW 8260B
Xylenes, total	<88		ug/kg dry	88	1	10/29/09 21:15	lck	9100794	SW 8260B
Surr: Dibromofluoromethane (82-112%)	*91 %*								
Surr: Dibromofluoromethane (82-112%)	*91 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: Toluene-d8 (91-106%)	*100 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*100 %*								
Surr: 4-Bromofluorobenzene (89-110%)	*101 %*								

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
890 Spruce Street
Baldwin, WI 54002

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

October 10, 2013

Debbi & Denny Bodoh
Village Cleaners
821 E Main St
Menomonie, WI 54751

SUBJECT: Approval of Consultant Selection, Scope of Work and Bid Costs
For the Remedial Action at the Village Cleaners,
821 E Main St, Menomonie, WI
DNR BRRTS Activity # 02-17-552037
WDNR FID # 617044780

Dear Mrs. & Mr. Bodoh:

On August 13, 2013, the Wisconsin Department of Natural Resources (Department) received your request to hire Cedar Corporation as your environmental consultant for the remedial action activities at the Village Cleaners site. After careful review of the submitted proposals the Department is approving your request to hire Cedar Corporation for the remedial action activities at the Village Cleaners site. The Scope of Work for the remedial action is also approved.

The remedial action for this site includes groundwater monitoring, installation and operation of a multi well soil vapor extraction system including a horizontal pipe installed below the facility slab on the east side of the building, Limited soil excavation and disposal, and system operation and maintenance.

In regards to the hazardous waste determination requirements, your consultant has submitted information to the Department in a letter report dated September 30, 2013. That letter report entitled *Tetrachloroethylene Waste "Contained Out" Calculation* at the above referenced site describes the guidance and method used to make that determination. Based on that guidance, your consultant has determined that the material which is proposed to be landfilled would not be classified as hazardous waste and can be characterized as solid waste and can be disposed of at a subtitle D landfill.

Cost approved for this scope of work is $17,990 for consulting and $61,763 for sub-contractors, for a total of $79,753.00.

Please be aware that you are required to comply with all applicable statutes and administrative rules including the NR 700 series, Wisconsin Administrative Code, hazardous waste management and wastewater discharges.

This approval does not guarantee the reimbursement of costs under the Dry Cleaner Environmental Response Program. Final determination regarding the eligibility of costs for reimbursement will be made at the time of claim review.

If you have any questions or concerns regarding the content of this letter, please contact me at 715 684-2914 ext. 117.

Sincerely,

Patrick Collins

Patrick Collins
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Scott, McCurdy – Cedar Corp.
Sarah Bradley - CF/2, GEF 2, Madison

Part B – To be completed by environmental professional

Submit original Part B to the WDNR along with a copy of Part A

I. TANK-SYSTEM SITE ASSESSMENT (TSSA)

Site Name: Norge Village Cleaners

Address: 821 E. Main Street, Menomonie

Note: Site name and address must match with Part A Section 1.

To determine if a TSSA is required, see Comm 10 and section II part B of *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.*

If a TSSA is required, then follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.*

1. Site Information

a. Has there been a previously documented release at this site? ■ Y ☐ N

If yes, provide the DSPS # _____, or DNR BRRT's # 02-17-552037.

b. Number of active tanks[1] at facility prior to completion of current services USTs 1 ASTs _____.

(NOTE 1: Do not include previously closed systems or system components.)

c. Excavation/trench dimensions (in feet). (Photos must be provided.)

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
tank bed	9	8	8

2. Visual Excavation/Trench Inspection (Photos must be provided for "Yes" responses, except item b.)

Do any of the following conditions exist in or about the excavation(s)?

a. Stained soils: ☐ Y ■ N b. Petroleum odor: ■ Y ☐ N c. Water In excavation/trench: ☐ Y ■ N

d. Free product in the excavation/trench: ☐ Y ■ N e. Sheen or free product on water: ☐ Y ☐ N

3. Geology/Hydrogeology

a. Depth to groundwater 55 feet feet b. Indicate type of geology[2] S

(Note 2: Use these symbols individually or in combination as appropriate: C = Clay, SLT = Silt, S = Sand, Gr = Gravel)

4. Receptors

a. Water supply well(s) within 250 feet of the facility? ☐ Y ■ N If yes, specify _____

b. Surface water(s) within 1000 feet of the facility? ■ Y ☐ N If yes, specify Lake Menomin

5. Sampling

a. Follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.*

b. Complete Tables 1 and 2 as appropriate. (Attach chain-of-custody and laboratory analytical reports.)

c. Attach a detailed map of site features and sample locations.

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

UST was encountered during a remedial soil excavation project to reduce PERC contaminated soils at dry cleaner site. Due to type of use and known contamination present samples only run for VOC. Detections of Tetrachloroethene (PERC) were reported in all samples.

TABLE 1 SOIL FIELD SCREENING & GRO/DRO LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
Base	beneath UST / S	x				1.5		NA	NA
North	north sidewall / S	x				-1.5		NA	NA
South	south sidewall / S	x				-1.5		NA	NA
East	east sidewall / S	x				-1.5		NA	NA
West	west sidewall / S	x				-1.5		NA	NA

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Base	<4.2	<6.4	<7.1	<24	<12	27	<28
North	<4.1	<6.4	<7.0	<24	<12	30	<28
South	<4.2	<6.5	<7.1	<24	<12	29	<28
East	<4.2	<6.4	<7.1	<24	<12	24	<28
West	<4.3	<6.6	<7.3	<25	<12	24	<29

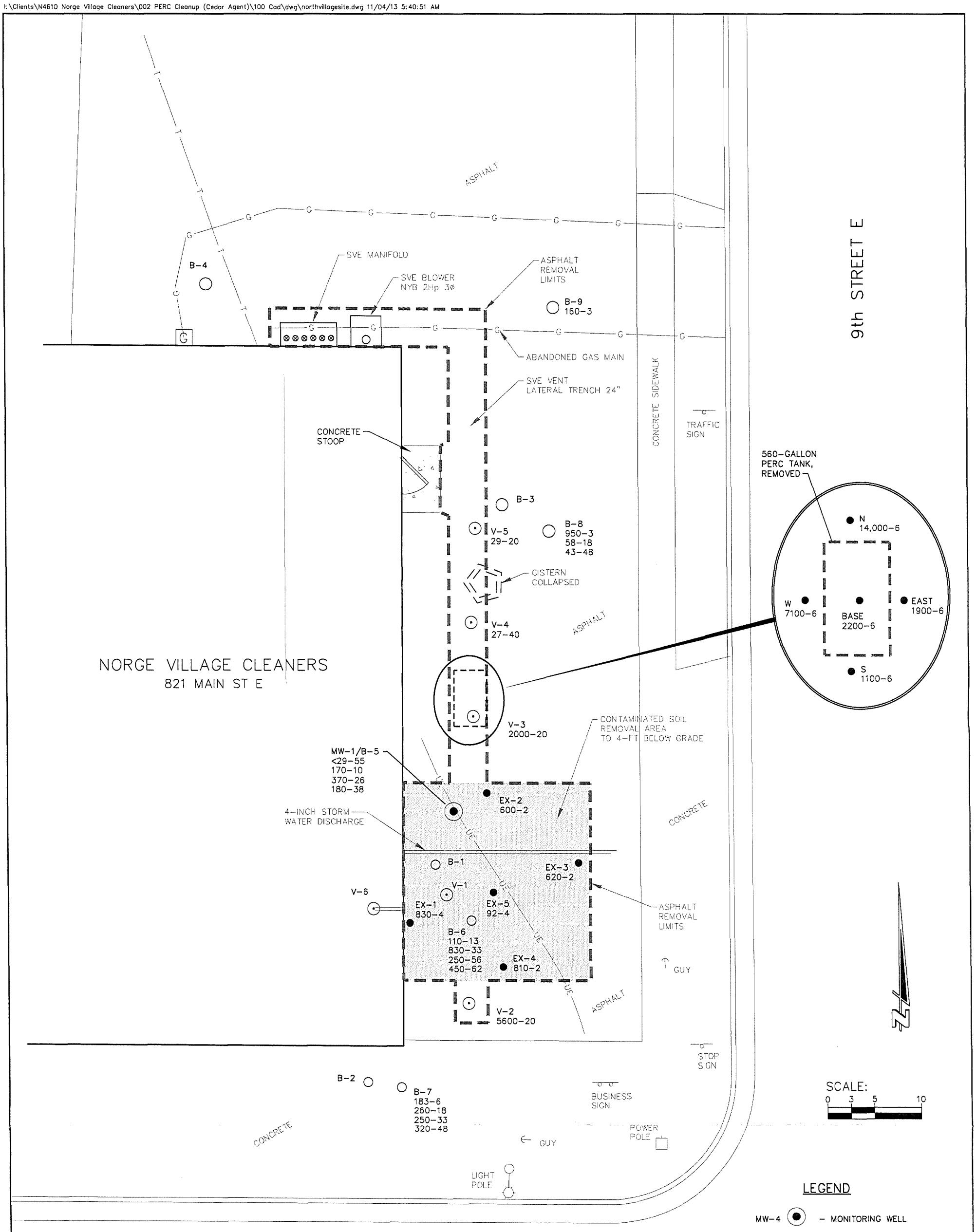
K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

☐ As a tank-system site assessor certified under Wis. Admin. Code section Comm 5.83, it is my opinion that there is no indication of a release of a regulated substance to the environment.

☒ Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section Comm 10.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter Comm 10 shall immediately report any release of a regulated substance to the Wisconsin Department of Natural Resources. Failure to do so may result in forfeitures of a minimum of $10 and a maximum of $5000 for each violation under Wis. Stats. section 101.09 (5). Each day of continued violation and each tank are treated as separate offenses.

Matt Taylor		41812
Tank-System Site Assessor Name (print)	Tank-System Site Assessor Signature	Certification Number #
715-235-9081	11/07/2013	Cedar Corporation
Tank-System Site Assessor Telephone Number	Date Signed	Company Name

I:\Clients\N4610 Norge Village Cleaners\002 PERC Cleanup (Cedar Agent)\100 Cad\dwg\northvillagesite.dwg 11/04/13 5:40:51 AM



LEGEND

MW-4	◉	– MONITORING WELL
V-5	⊙	– SOIL VENT
EX-3	●	– SOIL SAMPLE
B-7	○	– BORING
250		– TETRACHLOROETHENE (ppb)
-33		– DEPTH OF SAMPLE

SHEET NO. 2 OF 2

NORGE VILLAGE CLEANERS
PERC REMDIATIONS SYSTEM
CITY OF MENOMONIE, WI
OCTOBER 2013 – SOIL CONTAMINATION LEVELS

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers

800-472-7372
www.cedarcorp.com

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

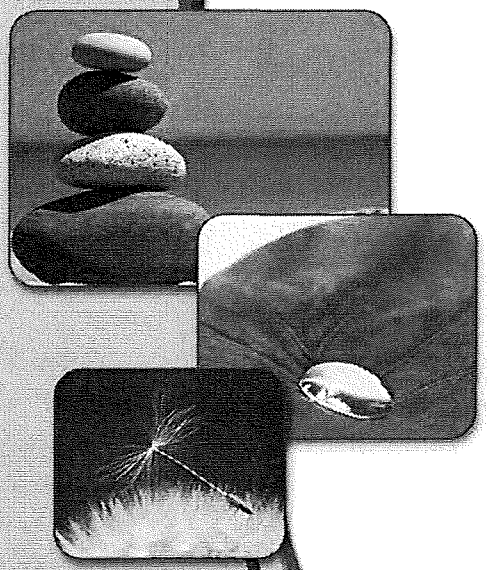
2820 Walton Commons West
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

2737 S. Ridge Rd.
Suite 400
Green Bay, WI 54304
920-491-9081
FAX 920-491-9020

JOB NO. N4610-002
BOOK NO.
DRAWN BY RDJ/KAT
CHECKED BY SEM
DATE OCT 2013
REVISIONS
REFERENCE FILE northvillagesite...
DRAWING FILE northvillagesite...

Tank after removal

Tank bed after removal looking west toward building



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-65246-1
Client Project/Site: Village Cleaners - 4610

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Scott McCurdy

Sandie Fredrick

Authorized for release by:
10/29/2013 7:07:36 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-65246-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-65246-1

Comments
No additional comments.

Receipt
The samples were received on 10/19/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for batch 208324 and the matrix spike (-8MS) for sample -8 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS and MS and was not detected in the associated samples; therefore, the data has been reported.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Client Sample ID: EX-1 4' — Lab Sample ID: 500-65246-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	830		58	9.7	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: EX-2 2' — Lab Sample ID: 500-65246-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	600		56	9.3	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: EX-3 2' — Lab Sample ID: 500-65246-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	620		58	9.8	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: EX-4 2' — Lab Sample ID: 500-65246-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	810		57	9.5	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	23	J	28	3.9	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: EX-5 4' — Lab Sample ID: 500-65246-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	92		55	9.2	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: Base — Lab Sample ID: 500-65246-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2200		56	9.3	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	27	J	28	3.8	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: North — Lab Sample ID: 500-65246-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	14000		560	93	ug/Kg	500	☼	8260B	Total/NA
Trichloroethene	27	J	28	10	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	30		28	3.8	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: South — Lab Sample ID: 500-65246-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1100		56	9.4	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	29		28	3.9	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: East — Lab Sample ID: 500-65246-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1400		56	9.3	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	24	J	28	3.8	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: West — Lab Sample ID: 500-65246-10

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Client Sample ID: West (Continued)

Lab Sample ID: 500-65246-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1100		58	9.7	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	24	J	29	4.0	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-65246-11

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-65246-1	EX-1 4'	Solid	10/16/13 11:00	10/19/13 09:15
500-65246-2	EX-2 2'	Solid	10/16/13 11:00	10/19/13 09:15
500-65246-3	EX-3 2'	Solid	10/16/13 11:00	10/19/13 09:15
500-65246-4	EX-4 2'	Solid	10/16/13 11:00	10/19/13 09:15
500-65246-5	EX-5 4'	Solid	10/16/13 11:00	10/19/13 09:15
500-65246-6	Base	Solid	10/16/13 15:30	10/19/13 09:15
500-65246-7	North	Solid	10/16/13 15:30	10/19/13 09:15
500-65246-8	South	Solid	10/16/13 15:30	10/19/13 09:15
500-65246-9	East	Solid	10/16/13 15:30	10/19/13 09:15
500-65246-10	West	Solid	10/16/13 15:30	10/19/13 09:15
500-65246-11	Trip Blank	Solid	10/16/13 15:30	10/19/13 09:15

Client Sample ID: EX-1 4'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-1
Matrix: Solid
Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.3		14	4.3	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Bromobenzene	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Bromochloromethane	<22		120	22	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Bromoform	<26		120	26	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Bromomethane	<40	*	120	40	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
sec-Butylbenzene	<8.9		58	8.9	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
tert-Butylbenzene	<7.9		58	7.9	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Chlorobenzene	<8.3		58	8.3	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Chloroethane	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Chloroform	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Chloromethane	<27		120	27	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
4-Chlorotoluene	<11		58	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Dibromomethane	<28		120	28	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2-Dichloroethane	<17		58	17	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,3-Dichloropropane	<7.8		58	7.8	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Ethylbenzene	<7.3		14	7.3	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Methylene Chloride	<40		290	40	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Naphthalene	<29		120	29	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Styrene	<5.7		58	5.7	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Tetrachloroethene	**830**		58	9.7	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Toluene	<6.7		14	6.7	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50

Client Sample ID: EX-1 4'

Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-1
Matrix: Solid
Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Trichloroethene	<11		29	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Xylenes, Total	<4.0		29	4.0	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*	*10/16/13 11:00*	*10/24/13 03:27*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:27*	*50*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:27*	*50*
Dibromofluoromethane	*92*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:27*	*50*

Client Sample ID: EX-2 2'

Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-2
Matrix: Solid
Percent Solids: 94.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.1		14	4.1	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
n-Butylbenzene	<7.2		56	7.2	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
sec-Butylbenzene	<8.6		56	8.6	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
tert-Butylbenzene	<7.6		56	7.6	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Carbon tetrachloride	<14		56	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Chlorobenzene	<8.0		56	8.0	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Chloroform	<11		56	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
2-Chlorotoluene	<12		56	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2-Dibromo-3-Chloropropane	<48		110	48	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,4-Dichlorobenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50

Client Sample ID: EX-2 2'

Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-2

Matrix: Solid
Percent Solids: 94.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
cis-1,2-Dichloroethene	<6.8		56	6.8	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
cis-1,3-Dichloropropene	<9.9		56	9.9	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Isopropyl ether	<8.2		110	8.2	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Ethylbenzene	<7.0		14	7.0	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Naphthalene	<27		110	27	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
N-Propylbenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Styrene	<5.5		56	5.5	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Tetrachloroethene	**600**		56	9.3	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Toluene	<6.4		14	6.4	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2,3-Trichlorobenzene	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Trichloroethene	<10		28	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Vinyl chloride	<5.8		14	5.8	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Xylenes, Total	<3.8		28	3.8	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*10/16/13 11:00*	*10/24/13 03:52*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:52*	*50*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:52*	*50*
Dibromofluoromethane	*88*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:52*	*50*

Client Sample ID: EX-3 2'

Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-3

Matrix: Solid
Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.3		15	4.3	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Bromobenzene	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Bromochloromethane	<22		120	22	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50

Client Sample ID: EX-3 2'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-3
Matrix: Solid
Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Bromoform	<26		120	26	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Bromomethane	<40	*	120	40	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
sec-Butylbenzene	<9.0		58	9.0	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
tert-Butylbenzene	<8.0		58	8.0	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Chlorobenzene	<8.4		58	8.4	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Chloroethane	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Chloroform	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Chloromethane	<27		120	27	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
4-Chlorotoluene	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2-Dibromo-3-Chloropropane	<51		120	51	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Dibromomethane	<28		120	28	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2-Dichloroethane	<17		58	17	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
cis-1,2-Dichloroethene	<7.2		58	7.2	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
trans-1,2-Dichloroethene	<15		58	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,3-Dichloropropane	<7.8		58	7.8	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Isopropyl ether	<8.6		120	8.6	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Ethylbenzene	<7.4		15	7.4	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Methylene Chloride	<40		290	40	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Naphthalene	<29		120	29	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Styrene	<5.8		58	5.8	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Tetrachloroethene	**620**		58	9.8	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Toluene	<6.7		15	6.7	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50

Client Sample ID: EX-3 2'

Lab Sample ID: 500-65246-3

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Trichloroethene	<11		29	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2,3-Trichloropropane	<34		120	34	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Vinyl chloride	<6.1		15	6.1	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Xylenes, Total	<4.0		29	4.0	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*10/16/13 11:00*	*10/24/13 04:16*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:16*	*50*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:16*	*50*
Dibromofluoromethane	*91*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:16*	*50*

Client Sample ID: EX-4 2'

Lab Sample ID: 500-65246-4

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.2		14	4.2	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Bromomethane	<39	*	110	39	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
n-Butylbenzene	<7.3		57	7.3	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
sec-Butylbenzene	<8.7		57	8.7	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
tert-Butylbenzene	<7.7		57	7.7	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Carbon tetrachloride	<15		57	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Chlorobenzene	<8.1		57	8.1	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Dibromochloromethane	<20		110	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Chloroethane	<25		110	25	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Chloroform	<12		57	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
2-Chlorotoluene	<12		57	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
4-Chlorotoluene	<11		57	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2-Dichlorobenzene	<12		110	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,3-Dichlorobenzene	<15		110	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,4-Dichlorobenzene	<9.9		110	9.9	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1-Dichloroethane	<10		57	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2-Dichloroethane	<16		57	16	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1-Dichloroethene	<17		57	17	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
cis-1,2-Dichloroethene	<7.0		57	7.0	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
trans-1,2-Dichloroethene	<14		57	14	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50

Client Sample ID: EX-4 2'

Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-4
Matrix: Solid
Percent Solids: 93.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<11		57	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,3-Dichloropropane	<7.6		57	7.6	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
2,2-Dichloropropane	<18		57	18	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1-Dichloropropene	<20		57	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
cis-1,3-Dichloropropene	<10		57	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
trans-1,3-Dichloropropene	<12		57	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Isopropyl ether	<8.3		110	8.3	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Ethylbenzene	<7.1		14	7.1	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Hexachlorobutadiene	<20		110	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Methylene Chloride	<39		280	39	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Naphthalene	<28		110	28	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
N-Propylbenzene	<9.9		110	9.9	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Styrene	<5.6		57	5.6	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1,1,2-Tetrachloroethane	<20		110	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1,2,2-Tetrachloroethane	<13		57	13	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Tetrachloroethene	**810**		57	9.5	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Toluene	<6.5		14	6.5	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1,1-Trichloroethane	<11		57	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1,2-Trichloroethane	<16		57	16	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Trichloroethene	<11		28	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Trichlorofluoromethane	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2,3-Trichloropropane	<33		110	33	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Vinyl chloride	<5.9		14	5.9	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Xylenes, Total	**23**	J	28	3.9	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 125*	*10/16/13 11:00*	*10/24/13 04:41*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:41*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:41*	*50*
Dibromofluoromethane	*92*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:41*	*50*

Client Sample ID: EX-5 4'

Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-5
Matrix: Solid
Percent Solids: 95.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.1		14	4.1	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Bromoform	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50

Client Sample ID: EX-5 4'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-5
Matrix: Solid
Percent Solids: 95.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<7.1		55	7.1	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
sec-Butylbenzene	<8.5		55	8.5	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
tert-Butylbenzene	<7.5		55	7.5	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Carbon tetrachloride	<14		55	14	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Chlorobenzene	<7.9		55	7.9	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Chloroform	<11		55	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
2-Chlorotoluene	<11		55	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
4-Chlorotoluene	<11		55	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2-Dibromo-3-Chloropropane	<48		110	48	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,4-Dichlorobenzene	<9.6		110	9.6	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Dichlorodifluoromethane	<28		110	28	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1-Dichloroethane	<10		55	10	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2-Dichloroethane	<16		55	16	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1-Dichloroethene	<17		55	17	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
cis-1,2-Dichloroethene	<6.8		55	6.8	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
trans-1,2-Dichloroethene	<14		55	14	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2-Dichloropropane	<11		55	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,3-Dichloropropane	<7.4		55	7.4	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
2,2-Dichloropropane	<17		55	17	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1-Dichloropropene	<19		55	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
cis-1,3-Dichloropropene	<9.8		55	9.8	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
trans-1,3-Dichloropropene	<12		55	12	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Isopropyl ether	<8.1		110	8.1	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Ethylbenzene	<7.0		14	7.0	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Naphthalene	<27		110	27	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
N-Propylbenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Styrene	<5.5		55	5.5	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1,2,2-Tetrachloroethane	<13		55	13	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Tetrachloroethene	**92**		55	9.2	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Toluene	<6.4		14	6.4	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2,3-Trichlorobenzene	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1,1-Trichloroethane	<11		55	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1,2-Trichloroethane	<15		55	15	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Trichloroethene	<10		28	10	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50

Client Sample ID: EX-5 4'

Lab Sample ID: 500-65246-5

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 95.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Vinyl chloride	<5.8		14	5.8	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Xylenes, Total	<3.8		28	3.8	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 125*	*10/16/13 11:00*	*10/24/13 05:06*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/13 11:00*	*10/24/13 05:06*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*10/16/13 11:00*	*10/24/13 05:06*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*10/16/13 11:00*	*10/24/13 05:06*	*50*

Client Sample ID: Base

Lab Sample ID: 500-65246-6

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.2		14	4.2	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
n-Butylbenzene	<7.2		56	7.2	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
sec-Butylbenzene	<8.6		56	8.6	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
tert-Butylbenzene	<7.6		56	7.6	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Carbon tetrachloride	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Chlorobenzene	<8.0		56	8.0	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Chloroform	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
2-Chlorotoluene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,4-Dichlorobenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
cis-1,2-Dichloroethene	<6.9		56	6.9	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50

Client Sample ID: Base

Lab Sample ID: 500-65246-6

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
cis-1,3-Dichloropropene	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Isopropyl ether	<8.2		110	8.2	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Ethylbenzene	<7.1		14	7.1	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Naphthalene	<28		110	28	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
N-Propylbenzene	<9.8		110	9.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Styrene	<5.5		56	5.5	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Tetrachloroethene	**2200**		56	9.3	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Toluene	<6.4		14	6.4	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Trichloroethene	<10		28	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Vinyl chloride	<5.8		14	5.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Xylenes, Total	**27**	J	28	3.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*	*10/16/13 15:30*	*10/24/13 05:31*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:31*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:31*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:31*	*50*

Client Sample ID: North

Lab Sample ID: 500-65246-7

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.1		14	4.1	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
n-Butylbenzene	<7.2		56	7.2	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
sec-Butylbenzene	<8.6		56	8.6	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
tert-Butylbenzene	<7.6		56	7.6	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50

Client Sample ID: North
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-7
Matrix: Solid
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Chlorobenzene	<8.0		56	8.0	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Chloroform	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
2-Chlorotoluene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,4-Dichlorobenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
cis-1,2-Dichloroethene	<6.9		56	6.9	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
cis-1,3-Dichloropropene	<9.9		56	9.9	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Isopropyl ether	<8.2		110	8.2	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Ethylbenzene	<7.0		14	7.0	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Naphthalene	<28		110	28	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
N-Propylbenzene	<9.8		110	9.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Styrene	<5.5		56	5.5	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Tetrachloroethene	**14000**		560	93	ug/Kg	☼	10/16/13 15:30	10/24/13 06:20	500
Toluene	<6.4		14	6.4	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Trichloroethene	**27**	J	28	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50

Client Sample ID: North

Lab Sample ID: 500-65246-7

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<5.8		14	5.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Xylenes, Total	30		28	3.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*10/16/13 15:30*	*10/24/13 05:56*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 125*	*10/16/13 15:30*	*10/24/13 06:20*	*500*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:56*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:20*	*500*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:56*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:20*	*500*
Dibromofluoromethane	*91*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:56*	*50*
Dibromofluoromethane	*92*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:20*	*500*

Client Sample ID: South

Lab Sample ID: 500-65246-8

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.2		14	4.2	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
n-Butylbenzene	<7.3		56	7.3	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
sec-Butylbenzene	<8.7		56	8.7	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
tert-Butylbenzene	<7.7		56	7.7	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Carbon tetrachloride	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Chlorobenzene	<8.1		56	8.1	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Chloroform	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
2-Chlorotoluene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2-Dichlorobenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,4-Dichlorobenzene	<9.8		110	9.8	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
cis-1,2-Dichloroethene	<6.9		56	6.9	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50

Client Sample ID: South

Lab Sample ID: 500-65246-8

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
cis-1,3-Dichloropropene	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Isopropyl ether	<8.3		110	8.3	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Ethylbenzene	<7.1		14	7.1	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Naphthalene	<28		110	28	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
N-Propylbenzene	<9.9		110	9.9	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Styrene	<5.6		56	5.6	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Tetrachloroethene	**1100**		56	9.4	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Toluene	<6.5		14	6.5	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Trichloroethene	<10		28	10	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Vinyl chloride	<5.9		14	5.9	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Xylenes, Total	**29**		28	3.9	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*	*10/16/13 15:30*	*10/24/13 06:45*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:45*	*50*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:45*	*50*
Dibromofluoromethane	*88*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:45*	*50*

Client Sample ID: East

Lab Sample ID: 500-65246-9

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.2		14	4.2	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
n-Butylbenzene	<7.2		56	7.2	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
sec-Butylbenzene	<8.6		56	8.6	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50

Client Sample ID: East
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-9
Matrix: Solid
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<7.6		56	7.6	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Carbon tetrachloride	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Chlorobenzene	<8.0		56	8.0	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Chloroform	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
2-Chlorotoluene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,4-Dichlorobenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
cis-1,2-Dichloroethene	<6.9		56	6.9	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
cis-1,3-Dichloropropene	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Isopropyl ether	<8.2		110	8.2	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Ethylbenzene	<7.1		14	7.1	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Naphthalene	<28		110	28	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
N-Propylbenzene	<9.8		110	9.8	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Styrene	<5.5		56	5.5	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Tetrachloroethene	**1400**		56	9.3	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Toluene	<6.4		14	6.4	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Trichloroethene	<10		28	10	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50

Client Sample ID: East

Lab Sample ID: 500-65246-9

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Vinyl chloride	<5.8		14	5.8	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Xylenes, Total	24	J	28	3.8	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*10/16/13 15:30*	*10/24/13 07:10*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*10/16/13 15:30*	*10/24/13 07:10*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*10/16/13 15:30*	*10/24/13 07:10*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*10/16/13 15:30*	*10/24/13 07:10*	*50*

Client Sample ID: West

Lab Sample ID: 500-65246-10

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.3		14	4.3	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Bromobenzene	<25		120	25	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Bromochloromethane	<22		120	22	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Bromoform	<25		120	25	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Bromomethane	<39		120	39	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
sec-Butylbenzene	<8.9		58	8.9	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
tert-Butylbenzene	<7.9		58	7.9	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Chlorobenzene	<8.3		58	8.3	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Chloroethane	<25		120	25	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Chloroform	<12		58	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Chloromethane	<27		120	27	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
4-Chlorotoluene	<11		58	11	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Dibromomethane	<28		120	28	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2-Dichloroethane	<16		58	16	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,3-Dichloropropane	<7.7		58	7.7	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50

Client Sample ID: West

Lab Sample ID: 500-65246-10

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Ethylbenzene	<7.3		14	7.3	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Methylene Chloride	<39		290	39	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Naphthalene	<29		120	29	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Styrene	<5.7		58	5.7	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Tetrachloroethene	**1100**		58	9.7	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Toluene	<6.6		14	6.6	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Trichloroethene	<11		29	11	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Xylenes, Total	**24**	J	29	4.0	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*	*10/16/13 15:30*	*10/24/13 16:52*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*10/16/13 15:30*	*10/24/13 16:52*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*10/16/13 15:30*	*10/24/13 16:52*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*10/16/13 15:30*	*10/24/13 16:52*	*50*

Client Sample ID: Trip Blank

Lab Sample ID: 500-65246-11

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<3.7		13	3.7	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Bromobenzene	<21		100	21	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Bromochloromethane	<19		100	19	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Bromodichloromethane	<17		100	17	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Bromoform	<22		100	22	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Bromomethane	<34		100	34	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Carbon tetrachloride	<13		50	13	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		10/16/13 15:30	10/24/13 17:17	50

Client Sample ID: Trip Blank
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-11
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<17		100	17	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Chloroethane	<22		100	22	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Chloroform	<10		50	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Chloromethane	<23		100	23	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
2-Chlorotoluene	<10		50	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2-Dibromoethane	<16		100	16	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Dibromomethane	<24		100	24	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2-Dichloroethane	<14		50	14	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1-Dichloroethene	<15		50	15	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
2,2-Dichloropropane	<16		50	16	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1-Dichloropropene	<17		50	17	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Hexachlorobutadiene	<17		100	17	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Isopropylbenzene	<13		100	13	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Methylene Chloride	<34		250	34	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Naphthalene	<25		100	25	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Styrene	<4.9		50	4.9	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Toluene	<5.8		13	5.8	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Trichloroethene	<9.3		25	9.3	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Trichlorofluoromethane	<21		100	21	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		10/16/13 15:30	10/24/13 17:17	50

Client Sample ID: Trip Blank
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-11
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125	10/16/13 15:30	10/24/13 17:17	50
Toluene-d8 (Surr)	100		75 - 120	10/16/13 15:30	10/24/13 17:17	50
4-Bromofluorobenzene (Surr)	102		75 - 120	10/16/13 15:30	10/24/13 17:17	50
Dibromofluoromethane	91		75 - 120	10/16/13 15:30	10/24/13 17:17	50

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 207824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65246-1	EX-1 4'	Total/NA	Solid	5035	
500-65246-2	EX-2 2'	Total/NA	Solid	5035	
500-65246-3	EX-3 2'	Total/NA	Solid	5035	
500-65246-4	EX-4 2'	Total/NA	Solid	5035	
500-65246-5	EX-5 4'	Total/NA	Solid	5035	
500-65246-6	Base	Total/NA	Solid	5035	
500-65246-7	North	Total/NA	Solid	5035	
500-65246-8	South	Total/NA	Solid	5035	
500-65246-9	East	Total/NA	Solid	5035	
500-65246-9 MS	East	Total/NA	Solid	5035	
500-65246-9 MSD	East	Total/NA	Solid	5035	
500-65246-10	West	Total/NA	Solid	5035	
500-65246-11	Trip Blank	Total/NA	Solid	5035	
LB3 500-207824/12-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-207824/13-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 208324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65246-1	EX-1 4'	Total/NA	Solid	8260B	207824
500-65246-2	EX-2 2'	Total/NA	Solid	8260B	207824
500-65246-3	EX-3 2'	Total/NA	Solid	8260B	207824
500-65246-4	EX-4 2'	Total/NA	Solid	8260B	207824
500-65246-5	EX-5 4'	Total/NA	Solid	8260B	207824
500-65246-6	Base	Total/NA	Solid	8260B	207824
500-65246-7	North	Total/NA	Solid	8260B	207824
500-65246-7	North	Total/NA	Solid	8260B	207824
500-65246-8	South	Total/NA	Solid	8260B	207824
500-65246-9	East	Total/NA	Solid	8260B	207824
500-65246-9 MS	East	Total/NA	Solid	8260B	207824
500-65246-9 MSD	East	Total/NA	Solid	8260B	207824
LCS 500-208324/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-208324/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 208456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65246-10	West	Total/NA	Solid	8260B	207824
500-65246-11	Trip Blank	Total/NA	Solid	8260B	207824
LB3 500-207824/12-A LB3	Method Blank	Total/NA	Solid	8260B	207824
LCS 500-207824/13-A	Lab Control Sample	Total/NA	Solid	8260B	207824
LCS 500-208456/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-208456/6	Method Blank	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 208096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65246-1	EX-1 4'	Total/NA	Solid	Moisture	
500-65246-2	EX-2 2'	Total/NA	Solid	Moisture	
500-65246-3	EX-3 2'	Total/NA	Solid	Moisture	
500-65246-4	EX-4 2'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 208096 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65246-5	EX-5 4'	Total/NA	Solid	Moisture	
500-65246-6	Base	Total/NA	Solid	Moisture	
500-65246-7	North	Total/NA	Solid	Moisture	
500-65246-8	South	Total/NA	Solid	Moisture	
500-65246-9	East	Total/NA	Solid	Moisture	
500-65246-10	West	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (75-125)	TOL (75-120)	BFB (75-120)	DBFM (75-120)
500-65246-1	EX-1 4'	106	102	105	92
500-65246-2	EX-2 2'	104	99	105	88
500-65246-3	EX-3 2'	107	100	103	91
500-65246-4	EX-4 2'	108	99	108	92
500-65246-5	EX-5 4'	109	99	104	89
500-65246-6	Base	105	101	104	89
500-65246-7	North	107	99	106	91
500-65246-7	North	110	99	108	92
500-65246-8	South	105	101	107	88
500-65246-9	East	107	100	104	90
500-65246-9 MS	East	107	97	99	96
500-65246-9 MSD	East	105	96	98	98
500-65246-10	West	106	100	104	90
500-65246-11	Trip Blank	107	100	102	91
LB3 500-207824/12-A LB3	Method Blank	104	99	103	90
LCS 500-207824/13-A	Lab Control Sample	106	98	96	97
LCS 500-208324/4	Lab Control Sample	106	99	94	95
LCS 500-208456/4	Lab Control Sample	99	98	96	95
MB 500-208324/6	Method Blank	106	100	102	91
MB 500-208456/6	Method Blank	104	101	102	88

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-207824/12-A LB3
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 207824

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<3.7		13	3.7	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Bromobenzene	<21		100	21	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Bromochloromethane	<19		100	19	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Bromodichloromethane	<17		100	17	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Bromoform	<22		100	22	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Bromomethane	<34		100	34	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Carbon tetrachloride	<13		50	13	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Dibromochloromethane	<17		100	17	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Chloroethane	<22		100	22	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Chloroform	<10		50	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Chloromethane	<23		100	23	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
2-Chlorotoluene	<10		50	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2-Dibromoethane	<16		100	16	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Dibromomethane	<24		100	24	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2-Dichloroethane	<14		50	14	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1-Dichloroethene	<15		50	15	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
2,2-Dichloropropane	<16		50	16	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1-Dichloropropene	<17		50	17	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Hexachlorobutadiene	<17		100	17	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Isopropylbenzene	<13		100	13	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Methylene Chloride	<34		250	34	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Naphthalene	<25		100	25	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Styrene	<4.9		50	4.9	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		10/19/13 20:00	10/24/13 16:28	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-207824/12-A LB3 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208456 — **Prep Batch: 207824**

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<5.8		13	5.8	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Trichloroethene	<9.3		25	9.3	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Trichlorofluoromethane	<21		100	21	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		10/19/13 20:00	10/24/13 16:28	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*10/19/13 20:00*	*10/24/13 16:28*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/19/13 20:00*	*10/24/13 16:28*	*50*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*	*10/19/13 20:00*	*10/24/13 16:28*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*10/19/13 20:00*	*10/24/13 16:28*	*50*

Lab Sample ID: LCS 500-207824/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208456 — **Prep Batch: 207824**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2500	2540		ug/Kg		101	70 - 120
Bromobenzene	2500	2390		ug/Kg		95	70 - 120
Bromochloromethane	2500	2440		ug/Kg		98	67 - 122
Bromodichloromethane	2500	2470		ug/Kg		99	70 - 120
Bromoform	2500	2090		ug/Kg		83	70 - 125
Bromomethane	2500	3390		ug/Kg		136	50 - 150
n-Butylbenzene	2500	2490		ug/Kg		99	75 - 120
sec-Butylbenzene	2500	2490		ug/Kg		100	70 - 120
tert-Butylbenzene	2500	2450		ug/Kg		98	70 - 120
Carbon tetrachloride	2500	2430		ug/Kg		97	70 - 125
Chlorobenzene	2500	2420		ug/Kg		97	70 - 120
Dibromochloromethane	2500	2260		ug/Kg		90	70 - 120
Chloroethane	2500	2720		ug/Kg		109	50 - 150
Chloroform	2500	2620		ug/Kg		105	70 - 120
Chloromethane	2500	2060		ug/Kg		82	50 - 134
2-Chlorotoluene	2500	2470		ug/Kg		99	70 - 120
4-Chlorotoluene	2500	2460		ug/Kg		98	70 - 120
1,2-Dibromo-3-Chloropropane	2500	2240		ug/Kg		90	60 - 121
1,2-Dibromoethane	2500	2410		ug/Kg		96	70 - 120
Dibromomethane	2500	2520		ug/Kg		101	70 - 120
1,2-Dichlorobenzene	2500	2480		ug/Kg		99	75 - 120
1,3-Dichlorobenzene	2500	2400		ug/Kg		96	70 - 120
1,4-Dichlorobenzene	2500	2390		ug/Kg		96	75 - 120
Dichlorodifluoromethane	2500	1460		ug/Kg		58	40 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-207824/13-A
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	2500	2610		ug/Kg		105	68 - 121
1,2-Dichloroethane	2500	2780		ug/Kg		111	69 - 120
1,1-Dichloroethene	2500	2290		ug/Kg		92	58 - 122
cis-1,2-Dichloroethene	2500	2440		ug/Kg		98	70 - 120
trans-1,2-Dichloroethene	2500	2420		ug/Kg		97	70 - 124
1,2-Dichloropropane	2500	2530		ug/Kg		101	70 - 120
1,3-Dichloropropane	2500	2550		ug/Kg		102	70 - 120
2,2-Dichloropropane	2500	2670		ug/Kg		107	67 - 125
1,1-Dichloropropene	2500	2500		ug/Kg		100	70 - 120
cis-1,3-Dichloropropene	2500	2460		ug/Kg		98	70 - 120
trans-1,3-Dichloropropene	2500	2410		ug/Kg		96	70 - 120
Ethylbenzene	2500	2400		ug/Kg		96	75 - 120
Hexachlorobutadiene	2500	2260		ug/Kg		91	65 - 135
Isopropylbenzene	2500	2450		ug/Kg		98	70 - 120
p-Isopropyltoluene	2500	2460		ug/Kg		98	70 - 120
Methylene Chloride	2500	2570		ug/Kg		103	65 - 125
Methyl tert-butyl ether	2500	2570		ug/Kg		103	58 - 122
Naphthalene	2500	2640		ug/Kg		106	55 - 132
N-Propylbenzene	2500	2480		ug/Kg		99	70 - 120
Styrene	2500	2470		ug/Kg		99	75 - 120
1,1,1,2-Tetrachloroethane	2500	2320		ug/Kg		93	75 - 120
1,1,2,2-Tetrachloroethane	2500	2460		ug/Kg		99	70 - 128
Tetrachloroethene	2500	2300		ug/Kg		92	70 - 123
Toluene	2500	2510		ug/Kg		101	70 - 120
1,2,3-Trichlorobenzene	2500	2460		ug/Kg		98	56 - 137
1,2,4-Trichlorobenzene	2500	2370		ug/Kg		95	65 - 121
1,1,1-Trichloroethane	2500	2560		ug/Kg		102	70 - 123
1,1,2-Trichloroethane	2500	2440		ug/Kg		98	69 - 120
Trichloroethene	2500	2410		ug/Kg		96	70 - 120
Trichlorofluoromethane	2500	2310		ug/Kg		92	63 - 134
1,2,3-Trichloropropane	2500	2430		ug/Kg		97	70 - 120
1,2,4-Trimethylbenzene	2500	2530		ug/Kg		101	75 - 121
1,3,5-Trimethylbenzene	2500	2500		ug/Kg		100	75 - 123
Vinyl chloride	2500	2010		ug/Kg		81	62 - 138
Xylenes, Total	5000	4940		ug/Kg		99	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*
Toluene-d8 (Surr)	*98*		*75 - 120*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*
Dibromofluoromethane	*97*		*75 - 120*

Lab Sample ID: 500-65246-9 MS
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: East
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<4.2		2800	2950		ug/Kg	☼	105	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-65246-9 MS
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: East
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	<24		2800	2990		ug/Kg	☼	107	70 - 120
Bromochloromethane	<21		2800	2900		ug/Kg	☼	104	67 - 122
Bromodichloromethane	<19		2800	2910		ug/Kg	☼	104	70 - 120
Bromoform	<25		2800	2580		ug/Kg	☼	92	70 - 125
Bromomethane	<38	*	2800	4510	F	ug/Kg	☼	161	50 - 150
n-Butylbenzene	<7.2		2800	2880		ug/Kg	☼	103	75 - 120
sec-Butylbenzene	<8.6		2800	3040		ug/Kg	☼	109	70 - 120
tert-Butylbenzene	<7.6		2800	3020		ug/Kg	☼	108	70 - 120
Carbon tetrachloride	<14		2800	2790		ug/Kg	☼	100	70 - 125
Chlorobenzene	<8.0		2800	2890		ug/Kg	☼	103	70 - 120
Dibromochloromethane	<19		2800	2620		ug/Kg	☼	94	70 - 120
Chloroethane	<24		2800	3470		ug/Kg	☼	124	50 - 150
Chloroform	<11		2800	3070		ug/Kg	☼	110	70 - 120
Chloromethane	<26		2800	2970		ug/Kg	☼	106	50 - 134
2-Chlorotoluene	<12		2800	3050		ug/Kg	☼	109	70 - 120
4-Chlorotoluene	<11		2800	3010		ug/Kg	☼	107	70 - 120
1,2-Dibromo-3-Chloropropane	<49		2800	2780		ug/Kg	☼	99	60 - 121
1,2-Dibromoethane	<18		2800	2880		ug/Kg	☼	103	70 - 120
Dibromomethane	<27		2800	3000		ug/Kg	☼	107	70 - 120
1,2-Dichlorobenzene	<11		2800	3020		ug/Kg	☼	108	75 - 120
1,3-Dichlorobenzene	<14		2800	2890		ug/Kg	☼	103	70 - 120
1,4-Dichlorobenzene	<9.7		2800	2850		ug/Kg	☼	102	75 - 120
Dichlorodifluoromethane	<29		2800	2680		ug/Kg	☼	96	40 - 140
1,1-Dichloroethane	<10		2800	3000		ug/Kg	☼	107	68 - 121
1,2-Dichloroethane	<16		2800	3170		ug/Kg	☼	113	69 - 120
1,1-Dichloroethene	<17		2800	2550		ug/Kg	☼	91	58 - 122
cis-1,2-Dichloroethene	<6.9		2800	2830		ug/Kg	☼	101	70 - 120
trans-1,2-Dichloroethene	<14		2800	2740		ug/Kg	☼	98	70 - 124
1,2-Dichloropropane	<11		2800	2910		ug/Kg	☼	104	70 - 120
1,3-Dichloropropane	<7.5		2800	3040		ug/Kg	☼	109	70 - 120
2,2-Dichloropropane	<18		2800	3050		ug/Kg	☼	109	67 - 125
1,1-Dichloropropene	<19		2800	2910		ug/Kg	☼	104	70 - 120
cis-1,3-Dichloropropene	<10		2800	2800		ug/Kg	☼	100	70 - 120
trans-1,3-Dichloropropene	<12		2800	2860		ug/Kg	☼	102	70 - 120
Ethylbenzene	<7.1		2800	2860		ug/Kg	☼	102	75 - 120
Hexachlorobutadiene	<19		2800	2700		ug/Kg	☼	96	65 - 135
Isopropylbenzene	<14		2800	2990		ug/Kg	☼	107	70 - 120
p-Isopropyltoluene	<10		2800	2950		ug/Kg	☼	105	70 - 120
Methylene Chloride	<38		2800	2980		ug/Kg	☼	107	65 - 125
Methyl tert-butyl ether	<24		2800	2910		ug/Kg	☼	104	58 - 122
Naphthalene	<28		2800	3220		ug/Kg	☼	115	55 - 132
N-Propylbenzene	<9.8		2800	2990		ug/Kg	☼	107	70 - 120
Styrene	<5.5		2800	2990		ug/Kg	☼	107	75 - 120
1,1,1,2-Tetrachloroethane	<19		2800	2780		ug/Kg	☼	99	75 - 120
1,1,2,2-Tetrachloroethane	<13		2800	3080		ug/Kg	☼	110	70 - 128
Tetrachloroethene	1400		2800	3950		ug/Kg	☼	91	70 - 123
Toluene	<6.4		2800	2910		ug/Kg	☼	104	70 - 120
1,2,3-Trichlorobenzene	<20		2800	2880		ug/Kg	☼	103	56 - 137

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-65246-9 MS
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: East
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	<21		2800	2720		ug/Kg	☼	97	65 - 121
1,1,1-Trichloroethane	<11		2800	2910		ug/Kg	☼	104	70 - 123
1,1,2-Trichloroethane	<16		2800	2900		ug/Kg	☼	104	69 - 120
Trichloroethene	<10		2800	2780		ug/Kg	☼	99	70 - 120
Trichlorofluoromethane	<23		2800	2900		ug/Kg	☼	104	63 - 134
1,2,3-Trichloropropane	<32		2800	3060		ug/Kg	☼	109	70 - 120
1,2,4-Trimethylbenzene	<12		2800	3040		ug/Kg	☼	109	75 - 121
1,3,5-Trimethylbenzene	<12		2800	3040		ug/Kg	☼	109	75 - 123
Vinyl chloride	<5.8		2800	2910		ug/Kg	☼	104	62 - 138
Xylenes, Total	24	J	5600	5920		ug/Kg	☼	105	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*
Toluene-d8 (Surr)	*97*		*75 - 120*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane	*96*		*75 - 120*

Lab Sample ID: 500-65246-9 MSD
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: East
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<4.2		2800	2780		ug/Kg	☼	99	70 - 120	6	30
Bromobenzene	<24		2800	2650		ug/Kg	☼	95	70 - 120	12	30
Bromochloromethane	<21		2800	2710		ug/Kg	☼	97	67 - 122	7	30
Bromodichloromethane	<19		2800	2710		ug/Kg	☼	97	70 - 120	7	30
Bromoform	<25		2800	2410		ug/Kg	☼	86	70 - 125	7	30
Bromomethane	<38	*	2800	4180		ug/Kg	☼	150	50 - 150	8	30
n-Butylbenzene	<7.2		2800	2790		ug/Kg	☼	100	75 - 120	3	30
sec-Butylbenzene	<8.6		2800	2790		ug/Kg	☼	100	70 - 120	9	30
tert-Butylbenzene	<7.6		2800	2730		ug/Kg	☼	97	70 - 120	10	30
Carbon tetrachloride	<14		2800	2620		ug/Kg	☼	94	70 - 125	6	30
Chlorobenzene	<8.0		2800	2710		ug/Kg	☼	97	70 - 120	7	30
Dibromochloromethane	<19		2800	2510		ug/Kg	☼	90	70 - 120	4	30
Chloroethane	<24		2800	3370		ug/Kg	☼	121	50 - 150	3	30
Chloroform	<11		2800	2880		ug/Kg	☼	103	70 - 120	6	30
Chloromethane	<26		2800	2990		ug/Kg	☼	107	50 - 134	1	30
2-Chlorotoluene	<12		2800	2770		ug/Kg	☼	99	70 - 120	10	30
4-Chlorotoluene	<11		2800	2770		ug/Kg	☼	99	70 - 120	8	30
1,2-Dibromo-3-Chloropropane	<49		2800	2460		ug/Kg	☼	88	60 - 121	12	30
1,2-Dibromoethane	<18		2800	2590		ug/Kg	☼	93	70 - 120	10	30
Dibromomethane	<27		2800	2760		ug/Kg	☼	99	70 - 120	8	30
1,2-Dichlorobenzene	<11		2800	2790		ug/Kg	☼	100	75 - 120	8	30
1,3-Dichlorobenzene	<14		2800	2710		ug/Kg	☼	97	70 - 120	6	30
1,4-Dichlorobenzene	<9.7		2800	2700		ug/Kg	☼	97	75 - 120	5	30
Dichlorodifluoromethane	<29		2800	2860		ug/Kg	☼	102	40 - 140	6	30
1,1-Dichloroethane	<10		2800	2840		ug/Kg	☼	101	68 - 121	6	30
1,2-Dichloroethane	<16		2800	3020		ug/Kg	☼	108	69 - 120	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-65246-9 MSD
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: East
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	<17		2800	2420		ug/Kg	☼	86	58 - 122	5	30
cis-1,2-Dichloroethene	<6.9		2800	2740		ug/Kg	☼	98	70 - 120	3	30
trans-1,2-Dichloroethene	<14		2800	2630		ug/Kg	☼	94	70 - 124	4	30
1,2-Dichloropropane	<11		2800	2750		ug/Kg	☼	98	70 - 120	6	30
1,3-Dichloropropane	<7.5		2800	2810		ug/Kg	☼	100	70 - 120	8	30
2,2-Dichloropropane	<18		2800	2860		ug/Kg	☼	102	67 - 125	6	30
1,1-Dichloropropene	<19		2800	2740		ug/Kg	☼	98	70 - 120	6	30
cis-1,3-Dichloropropene	<10		2800	2650		ug/Kg	☼	95	70 - 120	6	30
trans-1,3-Dichloropropene	<12		2800	2700		ug/Kg	☼	96	70 - 120	6	30
Ethylbenzene	<7.1		2800	2730		ug/Kg	☼	98	75 - 120	4	30
Hexachlorobutadiene	<19		2800	2500		ug/Kg	☼	89	65 - 135	8	30
Isopropylbenzene	<14		2800	2720		ug/Kg	☼	97	70 - 120	9	30
p-Isopropyltoluene	<10		2800	2770		ug/Kg	☼	99	70 - 120	6	30
Methylene Chloride	<38		2800	2840		ug/Kg	☼	102	65 - 125	5	30
Methyl tert-butyl ether	<24		2800	2760		ug/Kg	☼	99	58 - 122	5	30
Naphthalene	<28		2800	2980		ug/Kg	☼	106	55 - 132	8	30
N-Propylbenzene	<9.8		2800	2780		ug/Kg	☼	99	70 - 120	7	30
Styrene	<5.5		2800	2790		ug/Kg	☼	100	75 - 120	7	30
1,1,1,2-Tetrachloroethane	<19		2800	2620		ug/Kg	☼	94	75 - 120	6	30
1,1,2,2-Tetrachloroethane	<13		2800	2740		ug/Kg	☼	98	70 - 128	12	30
Tetrachloroethene	1400		2800	3890		ug/Kg	☼	89	70 - 123	2	30
Toluene	<6.4		2800	2740		ug/Kg	☼	98	70 - 120	6	30
1,2,3-Trichlorobenzene	<20		2800	2780		ug/Kg	☼	99	56 - 137	4	30
1,2,4-Trichlorobenzene	<21		2800	2690		ug/Kg	☼	96	65 - 121	1	30
1,1,1-Trichloroethane	<11		2800	2780		ug/Kg	☼	99	70 - 123	5	30
1,1,2-Trichloroethane	<16		2800	2680		ug/Kg	☼	96	69 - 120	8	30
Trichloroethene	<10		2800	2670		ug/Kg	☼	95	70 - 120	4	30
Trichlorofluoromethane	<23		2800	3030		ug/Kg	☼	108	63 - 134	5	30
1,2,3-Trichloropropane	<32		2800	2670		ug/Kg	☼	95	70 - 120	14	30
1,2,4-Trimethylbenzene	<12		2800	2830		ug/Kg	☼	101	75 - 121	7	30
1,3,5-Trimethylbenzene	<12		2800	2790		ug/Kg	☼	100	75 - 123	9	30
Vinyl chloride	<5.8		2800	2890		ug/Kg	☼	103	62 - 138	1	30
Xylenes, Total	24	J	5600	5600		ug/Kg	☼	100	70 - 120	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*
Toluene-d8 (Surr)	*96*		*75 - 120*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*
Dibromofluoromethane	*98*		*75 - 120*

Lab Sample ID: MB 500-208324/6
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.25	0.074	ug/Kg			10/23/13 22:55	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			10/23/13 22:55	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			10/23/13 22:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-208324/6
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			10/23/13 22:55	1
Bromoform	<0.44		2.0	0.44	ug/Kg			10/23/13 22:55	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			10/23/13 22:55	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			10/23/13 22:55	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			10/23/13 22:55	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			10/23/13 22:55	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			10/23/13 22:55	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			10/23/13 22:55	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			10/23/13 22:55	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			10/23/13 22:55	1
Chloroform	<0.21		1.0	0.21	ug/Kg			10/23/13 22:55	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			10/23/13 22:55	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			10/23/13 22:55	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			10/23/13 22:55	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			10/23/13 22:55	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			10/23/13 22:55	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			10/23/13 22:55	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			10/23/13 22:55	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			10/23/13 22:55	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			10/23/13 22:55	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			10/23/13 22:55	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			10/23/13 22:55	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			10/23/13 22:55	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			10/23/13 22:55	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			10/23/13 22:55	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			10/23/13 22:55	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			10/23/13 22:55	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			10/23/13 22:55	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			10/23/13 22:55	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			10/23/13 22:55	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			10/23/13 22:55	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			10/23/13 22:55	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			10/23/13 22:55	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			10/23/13 22:55	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			10/23/13 22:55	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			10/23/13 22:55	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			10/23/13 22:55	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			10/23/13 22:55	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			10/23/13 22:55	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			10/23/13 22:55	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			10/23/13 22:55	1
Styrene	<0.099		1.0	0.099	ug/Kg			10/23/13 22:55	1
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			10/23/13 22:55	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			10/23/13 22:55	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			10/23/13 22:55	1
Toluene	<0.12		0.25	0.12	ug/Kg			10/23/13 22:55	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			10/23/13 22:55	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			10/23/13 22:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-208324/6
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			10/23/13 22:55	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			10/23/13 22:55	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			10/23/13 22:55	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			10/23/13 22:55	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			10/23/13 22:55	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/23/13 22:55	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/23/13 22:55	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			10/23/13 22:55	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			10/23/13 22:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*		*10/23/13 22:55*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*10/23/13 22:55*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*10/23/13 22:55*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*10/23/13 22:55*	*1*

Lab Sample ID: LCS 500-208324/4
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.1		ug/Kg		102	70 - 120
Bromobenzene	50.0	47.2		ug/Kg		94	70 - 120
Bromochloromethane	50.0	48.7		ug/Kg		97	67 - 122
Bromodichloromethane	50.0	50.6		ug/Kg		101	70 - 120
Bromoform	50.0	44.3		ug/Kg		89	70 - 125
Bromomethane	50.0	77.3	*	ug/Kg		155	50 - 150
n-Butylbenzene	50.0	52.3		ug/Kg		105	75 - 120
sec-Butylbenzene	50.0	50.4		ug/Kg		101	70 - 120
tert-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 120
Carbon tetrachloride	50.0	48.3		ug/Kg		97	70 - 125
Chlorobenzene	50.0	50.1		ug/Kg		100	70 - 120
Dibromochloromethane	50.0	46.0		ug/Kg		92	70 - 120
Chloroethane	50.0	65.8		ug/Kg		132	50 - 150
Chloroform	50.0	52.6		ug/Kg		105	70 - 120
Chloromethane	50.0	51.7		ug/Kg		103	50 - 134
2-Chlorotoluene	50.0	49.7		ug/Kg		99	70 - 120
4-Chlorotoluene	50.0	50.0		ug/Kg		100	70 - 120
1,2-Dibromo-3-Chloropropane	50.0	46.2		ug/Kg		92	60 - 121
1,2-Dibromoethane	50.0	48.8		ug/Kg		98	70 - 120
Dibromomethane	50.0	50.7		ug/Kg		101	70 - 120
1,2-Dichlorobenzene	50.0	49.8		ug/Kg		100	75 - 120
1,3-Dichlorobenzene	50.0	49.4		ug/Kg		99	70 - 120
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	75 - 120
Dichlorodifluoromethane	50.0	48.4		ug/Kg		97	40 - 140
1,1-Dichloroethane	50.0	51.5		ug/Kg		103	68 - 121
1,2-Dichloroethane	50.0	55.1		ug/Kg		110	69 - 120
1,1-Dichloroethene	50.0	44.1		ug/Kg		88	58 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-208324/4
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	50.0	49.8		ug/Kg		100	70 - 120
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	70 - 124
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	70 - 120
1,3-Dichloropropane	50.0	52.0		ug/Kg		104	70 - 120
2,2-Dichloropropane	50.0	52.0		ug/Kg		104	67 - 125
1,1-Dichloropropene	50.0	50.6		ug/Kg		101	70 - 120
cis-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	70 - 120
trans-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	70 - 120
Ethylbenzene	50.0	50.1		ug/Kg		100	75 - 120
Hexachlorobutadiene	50.0	47.1		ug/Kg		94	65 - 135
Isopropylbenzene	50.0	48.6		ug/Kg		97	70 - 120
p-Isopropyltoluene	50.0	50.1		ug/Kg		100	70 - 120
Methylene Chloride	50.0	50.5		ug/Kg		101	65 - 125
Methyl tert-butyl ether	50.0	50.6		ug/Kg		101	58 - 122
Naphthalene	50.0	52.6		ug/Kg		105	55 - 132
N-Propylbenzene	50.0	50.3		ug/Kg		101	70 - 120
Styrene	50.0	51.7		ug/Kg		103	75 - 120
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	75 - 120
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/Kg		99	70 - 128
Tetrachloroethene	50.0	47.8		ug/Kg		96	70 - 123
Toluene	50.0	51.3		ug/Kg		103	70 - 120
1,2,3-Trichlorobenzene	50.0	51.9		ug/Kg		104	56 - 137
1,2,4-Trichlorobenzene	50.0	51.4		ug/Kg		103	65 - 121
1,1,1-Trichloroethane	50.0	50.4		ug/Kg		101	70 - 123
1,1,2-Trichloroethane	50.0	49.8		ug/Kg		100	69 - 120
Trichloroethene	50.0	49.7		ug/Kg		99	70 - 120
Trichlorofluoromethane	50.0	51.0		ug/Kg		102	63 - 134
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	70 - 120
1,2,4-Trimethylbenzene	50.0	51.0		ug/Kg		102	75 - 121
1,3,5-Trimethylbenzene	50.0	50.3		ug/Kg		101	75 - 123
Vinyl chloride	50.0	51.6		ug/Kg		103	62 - 138
Xylenes, Total	100	103		ug/Kg		103	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*
Toluene-d8 (Surr)	*99*		*75 - 120*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*
Dibromofluoromethane	*95*		*75 - 120*

Lab Sample ID: MB 500-208456/6
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.25	0.074	ug/Kg			10/24/13 10:40	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			10/24/13 10:40	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			10/24/13 10:40	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			10/24/13 10:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-208456/6
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.44		2.0	0.44	ug/Kg			10/24/13 10:40	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			10/24/13 10:40	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			10/24/13 10:40	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			10/24/13 10:40	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			10/24/13 10:40	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			10/24/13 10:40	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			10/24/13 10:40	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			10/24/13 10:40	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			10/24/13 10:40	1
Chloroform	<0.21		1.0	0.21	ug/Kg			10/24/13 10:40	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			10/24/13 10:40	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			10/24/13 10:40	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			10/24/13 10:40	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			10/24/13 10:40	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			10/24/13 10:40	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			10/24/13 10:40	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			10/24/13 10:40	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			10/24/13 10:40	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			10/24/13 10:40	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			10/24/13 10:40	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			10/24/13 10:40	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			10/24/13 10:40	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			10/24/13 10:40	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			10/24/13 10:40	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			10/24/13 10:40	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			10/24/13 10:40	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			10/24/13 10:40	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			10/24/13 10:40	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			10/24/13 10:40	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			10/24/13 10:40	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			10/24/13 10:40	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			10/24/13 10:40	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			10/24/13 10:40	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			10/24/13 10:40	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			10/24/13 10:40	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			10/24/13 10:40	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			10/24/13 10:40	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			10/24/13 10:40	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			10/24/13 10:40	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			10/24/13 10:40	1
Styrene	<0.099		1.0	0.099	ug/Kg			10/24/13 10:40	1
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			10/24/13 10:40	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			10/24/13 10:40	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			10/24/13 10:40	1
Toluene	<0.12		0.25	0.12	ug/Kg			10/24/13 10:40	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			10/24/13 10:40	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			10/24/13 10:40	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			10/24/13 10:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-208456/6
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			10/24/13 10:40	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			10/24/13 10:40	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			10/24/13 10:40	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			10/24/13 10:40	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/24/13 10:40	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/24/13 10:40	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			10/24/13 10:40	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			10/24/13 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*		*10/24/13 10:40*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*10/24/13 10:40*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*10/24/13 10:40*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*10/24/13 10:40*	*1*

Lab Sample ID: LCS 500-208456/4
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.6		ug/Kg		95	70 - 120
Bromobenzene	50.0	45.8		ug/Kg		92	70 - 120
Bromochloromethane	50.0	44.7		ug/Kg		89	67 - 122
Bromodichloromethane	50.0	45.1		ug/Kg		90	70 - 120
Bromoform	50.0	39.7		ug/Kg		79	70 - 125
Bromomethane	50.0	68.0		ug/Kg		136	50 - 150
n-Butylbenzene	50.0	52.6		ug/Kg		105	75 - 120
sec-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 120
tert-Butylbenzene	50.0	48.8		ug/Kg		98	70 - 120
Carbon tetrachloride	50.0	46.1		ug/Kg		92	70 - 125
Chlorobenzene	50.0	47.8		ug/Kg		96	70 - 120
Dibromochloromethane	50.0	42.3		ug/Kg		85	70 - 120
Chloroethane	50.0	57.3		ug/Kg		115	50 - 150
Chloroform	50.0	48.5		ug/Kg		97	70 - 120
Chloromethane	50.0	46.8		ug/Kg		94	50 - 134
2-Chlorotoluene	50.0	48.6		ug/Kg		97	70 - 120
4-Chlorotoluene	50.0	49.6		ug/Kg		99	70 - 120
1,2-Dibromo-3-Chloropropane	50.0	42.4		ug/Kg		85	60 - 121
1,2-Dibromoethane	50.0	44.3		ug/Kg		89	70 - 120
Dibromomethane	50.0	46.1		ug/Kg		92	70 - 120
1,2-Dichlorobenzene	50.0	47.4		ug/Kg		95	75 - 120
1,3-Dichlorobenzene	50.0	47.7		ug/Kg		95	70 - 120
1,4-Dichlorobenzene	50.0	47.8		ug/Kg		96	75 - 120
Dichlorodifluoromethane	50.0	44.5		ug/Kg		89	40 - 140
1,1-Dichloroethane	50.0	48.2		ug/Kg		96	68 - 121
1,2-Dichloroethane	50.0	50.1		ug/Kg		100	69 - 120
1,1-Dichloroethene	50.0	40.5		ug/Kg		81	58 - 122
cis-1,2-Dichloroethene	50.0	44.6		ug/Kg		89	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-208456/4
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	44.0		ug/Kg		88	70 - 124
1,2-Dichloropropane	50.0	46.1		ug/Kg		92	70 - 120
1,3-Dichloropropane	50.0	47.1		ug/Kg		94	70 - 120
2,2-Dichloropropane	50.0	52.4		ug/Kg		105	67 - 125
1,1-Dichloropropene	50.0	48.7		ug/Kg		97	70 - 120
cis-1,3-Dichloropropene	50.0	45.6		ug/Kg		91	70 - 120
trans-1,3-Dichloropropene	50.0	45.9		ug/Kg		92	70 - 120
Ethylbenzene	50.0	47.8		ug/Kg		96	75 - 120
Hexachlorobutadiene	50.0	46.3		ug/Kg		93	65 - 135
Isopropylbenzene	50.0	48.0		ug/Kg		96	70 - 120
p-Isopropyltoluene	50.0	50.2		ug/Kg		100	70 - 120
Methylene Chloride	50.0	45.5		ug/Kg		91	65 - 125
Methyl tert-butyl ether	50.0	44.5		ug/Kg		89	58 - 122
Naphthalene	50.0	45.6		ug/Kg		91	55 - 132
N-Propylbenzene	50.0	50.2		ug/Kg		100	70 - 120
Styrene	50.0	49.0		ug/Kg		98	75 - 120
1,1,1,2-Tetrachloroethane	50.0	44.6		ug/Kg		89	75 - 120
1,1,2,2-Tetrachloroethane	50.0	45.3		ug/Kg		91	70 - 128
Tetrachloroethene	50.0	45.5		ug/Kg		91	70 - 123
Toluene	50.0	48.1		ug/Kg		96	70 - 120
1,2,3-Trichlorobenzene	50.0	46.1		ug/Kg		92	56 - 137
1,2,4-Trichlorobenzene	50.0	46.6		ug/Kg		93	65 - 121
1,1,1-Trichloroethane	50.0	47.0		ug/Kg		94	70 - 123
1,1,2-Trichloroethane	50.0	45.9		ug/Kg		92	69 - 120
Trichloroethene	50.0	47.1		ug/Kg		94	70 - 120
Trichlorofluoromethane	50.0	47.9		ug/Kg		96	63 - 134
1,2,3-Trichloropropane	50.0	46.1		ug/Kg		92	70 - 120
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	75 - 121
1,3,5-Trimethylbenzene	50.0	49.7		ug/Kg		99	75 - 123
Vinyl chloride	50.0	47.7		ug/Kg		95	62 - 138
Xylenes, Total	100	97.9		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*
Toluene-d8 (Surr)	*98*		*75 - 120*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*
Dibromofluoromethane	*95*		*75 - 120*

Lab Chronicle

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Client Sample ID: EX-1 4'

Lab Sample ID: 500-65246-1

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 03:27	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: EX-2 2'

Lab Sample ID: 500-65246-2

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 03:52	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: EX-3 2'

Lab Sample ID: 500-65246-3

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 04:16	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: EX-4 2'

Lab Sample ID: 500-65246-4

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 04:41	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: EX-5 4'

Lab Sample ID: 500-65246-5

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 05:06	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Lab Chronicle

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Client Sample ID: Base

Lab Sample ID: 500-65246-6

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 05:31	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: North

Lab Sample ID: 500-65246-7

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 05:56	BDA	TAL CHI
Total/NA	Analysis	8260B		500	208324	10/24/13 06:20	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: South

Lab Sample ID: 500-65246-8

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 06:45	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: East

Lab Sample ID: 500-65246-9

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 07:10	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: West

Lab Sample ID: 500-65246-10

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208456	10/24/13 16:52	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Lab Chronicle

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Client Sample ID: Trip Blank
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208456	10/24/13 17:17	BDA	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-14
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-14
South Carolina	State Program	4	77001	04-30-14
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534.

500-65246 COC

(optional)

Report To
Contact: Scott McCurdy
Company: Cedar Corp
Address: 604 Wilson Ave
Address: Menomonie, WI 54751
Phone: 715-235-9081
Fax:
E-Mail:

(optional)

Bill To
Contact: Same
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-65246

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 2.3

Client	Client Project #	Preservative	8/9										
Cedar Corp	4610												
Project Name: Village Cleanouts		Parameter	VOC's										
Project Location/State: Menomonie, WI 54751	Lab Project #												
Sampler: Ryan Shafer	Lab PM: Sandie Fredrick												

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC's								Comments
1		EX-1 4'	10/16/13	1100	2	SO	X								
2		EX-2 2'		1100											
3		EX-3 2'		1100											
4		EX-4 2'		1100											
5		EX-5 4'		1100											
6		Base		1530											
7		North		1530											
8		South		1530											
9		East		1530											
10		West		1530											

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Ryan Shafer	Cedar Corp	10/17/13	1630		TA	10/19/13	0915
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FX
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:
11-Trip blank

TAL-4124-500 (1209)
10/29/2013

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-65246-1

Login Number: 65246
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.3
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

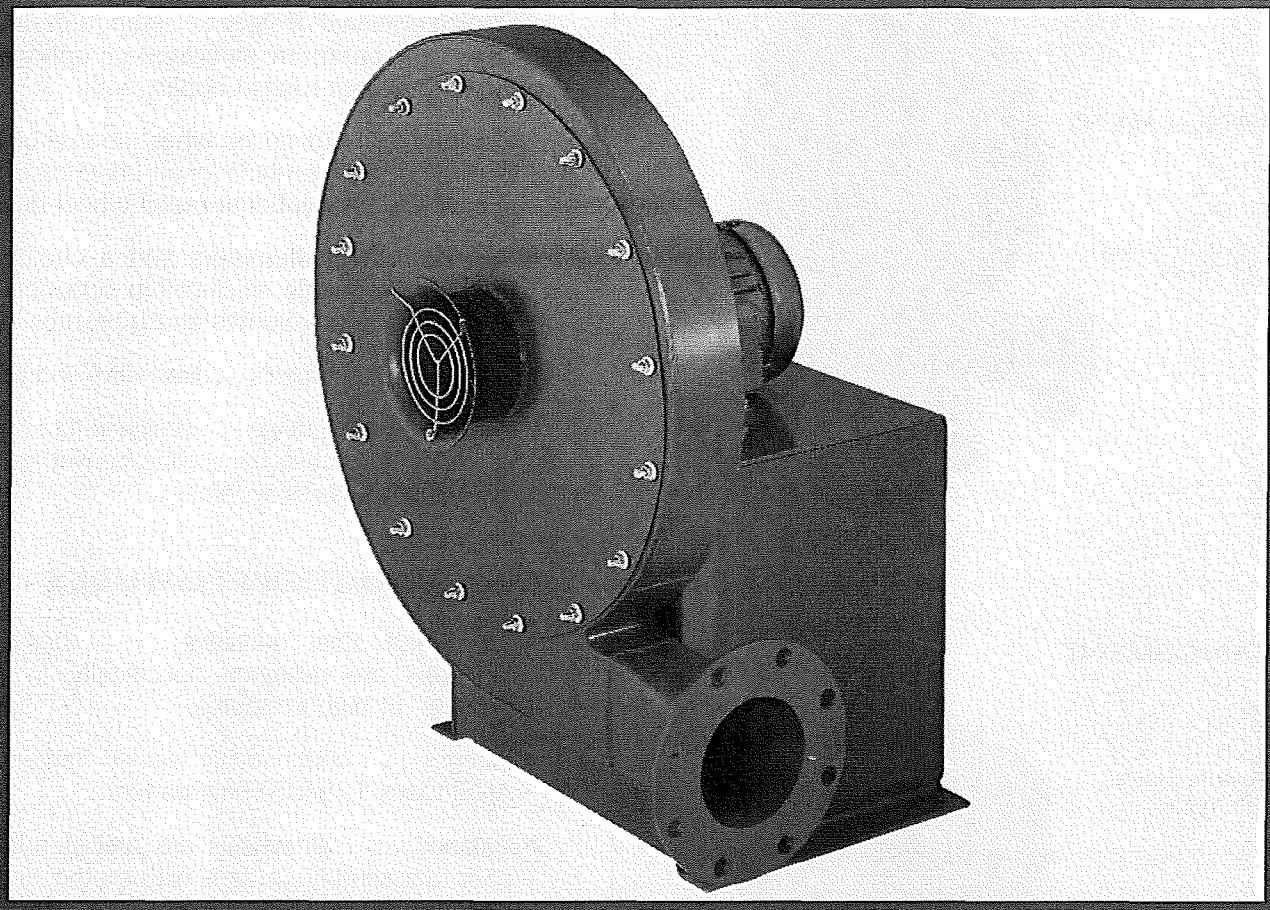
Appendix F

Soil Vapor Extraction System Equipment

BULLETIN 451
SEPTEMBER, 2011

PRESSURE BLOWERS

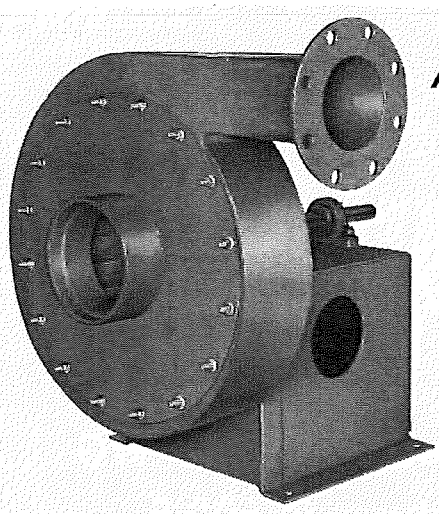
- Capacities to 5,200 CFM
- Two wheel choices
- Static pressures to 58"WG
- Temperatures to 600°F.



THE NEW YORK BLOWER COMPANY
7660 Quincy Street
Willowbrook, IL 60527-5530

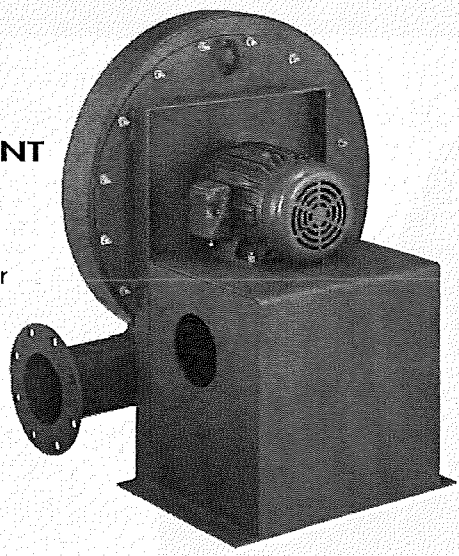
Visit us on the Web: http://www.nyb.com
Phone: (800) 208-7918 Email: nyb@nyb.com

For greater pressures and capacities: see Type HP Pressure Blowers



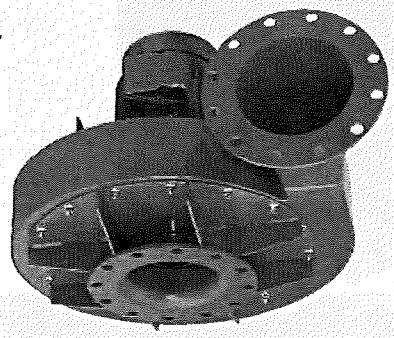
ARRANGEMENT 1

Pressure Blower with plain pipe inlet.



ARRANGEMENT 4

Pressure Blower with motor.



ARRANGEMENT 4-V

Pressure Blower with motor.

The New York Blower Company certifies that the Pressure Blowers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

PRESSURE BLOWERS

...for process systems

DESIGN FEATURES

- Pressures to 58"WG.
- Capacities to 5,200 CFM.
- Stable performance . . . the pressure curve remains stable from wide-open to closed-off . . . fan instability, or pulsation, is eliminated even when "turn-down" approaches zero flow.
- Choice of wheel designs . . . standard aluminum wheel for optimum efficiency or optional steel wheel for more rugged applications.
- Efficiency . . . advanced wheel and aerodynamic housing design combine for air-handling efficiency superior to conventional radial-wheel designs.
- Variable wheel diameters and a choice of six outlet sizes enable efficient fan selection across a wide range of volumes and pressures.
- Choice of arrangements . . . direct-drive and belt-drive.
- Wide application range . . . designed for continuous operation in combustion, cooling, conveying, drying, and various process systems.

CONSTRUCTION FEATURES

- All-welded steel housings . . . heavy-gauge housings are designed specifically to prevent "flexing" at high pressures.
- Flanges . . . continuously welded flanges match ANSI Class 125/150 hole pattern.
- Balance . . . all wheels are precision-balanced prior to assembly . . . fans with motors and drives mounted by **nyb** are given a final trim balance check at the specified running speed.
- Shafting . . . straightened to close tolerance to minimize "run-out" and ensure smooth operation.
- Inlet configuration . . . a choice of three inlet types allows units to be tailored to specific application requirements.
- Lifting eyes . . . standard on all units for ease of handling and installation.
- Finish . . . medium-green industrial coating.

ACCESSORIES/MODIFICATIONS

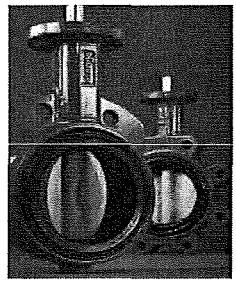
- **COMPANION FLANGES**
  Designed to fit flush with fan inlet and outlet flanges, provided with a matching hole pattern.

- **DRAINS**
  Tank flange is welded to the lowest point of the housing scroll . . . female pipe thread.

- **INLET FILTER**
  Filters are available with a choice of three element types: wire mesh, hi-flow polyester, and ultra-synthetic. High-efficiency filter is flange-mounted. Furnished standard with outboard support bracket and available with or without protective hood.

- **SILENCERS**
  Available to match standard inlet or outlet flange sizes. Heavy-welded construction filled with high-density, acoustical absorption material.

- **OUTLET DAMPERS**
  Available as either an integral outlet design for fixed damper control or as a separate wafer design for variable-flow applications [shown]. Wafer damper is available with an optional actuator and positioner.



- **SHAFT SEALS**
  Ceramic-felt shaft seals consist of compressed ceramic felt elements. Lubricated lip seals [Buna, Teflon®, and Viton®] and gas-purgeable, segmental bushing seals are also available. See your **nyb** representative for availability.
  [Teflon and Viton are registered trademarks of DuPont and DuPont Dow Elastomers, respectively.]

- **ACCESS DOOR**
  Gasketed, flush-bolted door opens to provide access to the wheel.

- **HEAT-FAN CONSTRUCTION**
  Available on Arrangements 1, 8, 9, and 10 steel wheel Pressure Blowers up to 600°F. Modifications include shaft cooler and shaft-cooler guard.

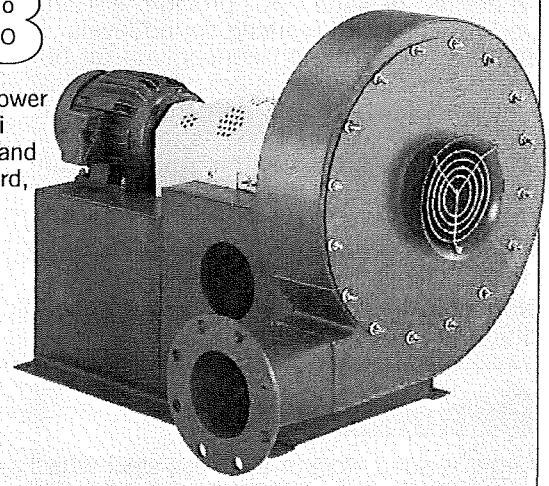
- **LL-1 LOW LEAKAGE CONSTRUCTION**
  Special construction to minimize leakage includes lip-type shaft seal, non-rotatable housing with solid drive side, double studs, and neoprene gasketing. Maximum temperature 200°F. due to gasketing limitations. Not available with heat-fan construction. Contact your **nyb** representative for other options.

- **SPECIAL ALLOY CONSTRUCTION**
  Airstream components can be constructed of a wide range of alternate alloys for corrosive applications.

- **UNITARY BASE**
  Fan, motor, and guards can be mounted and shipped on a rugged, structural-steel base. Factory-assembled and run-tested prior to shipment.

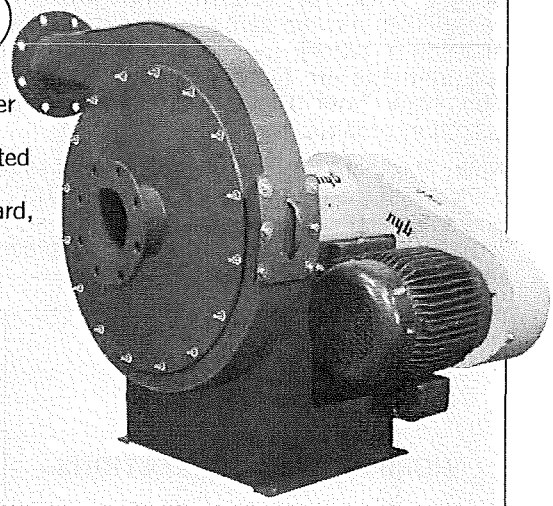
ARRANGEMENT 8

Pressure Blower with Venturi inlet, shaft and bearing guard, coupling guard, and motor.



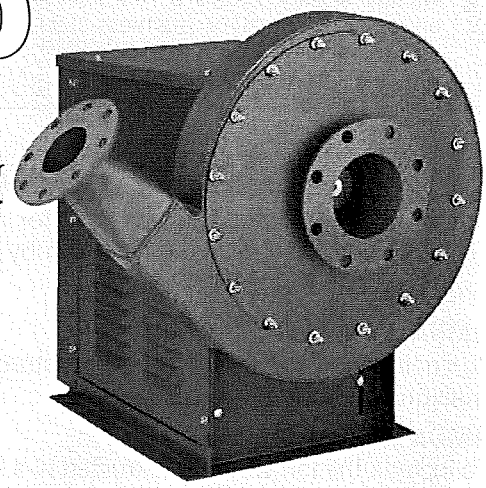
ARRANGEMENT 9

Pressure Blower with flanged inlet, flush-bolted cleanout door, motor, belt guard, and shaft and bearing guard.



ARRANGEMENT 10

Pressure Blower with flanged inlet and optional weather cover/belt guard.

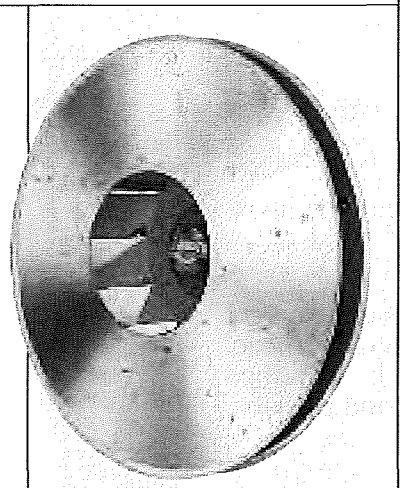


Wheels

Standard Aluminum

The unique Aluminum Pressure Blower wheel is designed to provide efficient performance and reduced sound levels ... the dual-taper design concept on all but the narrowest wheel sizes yields typical efficiencies up to 10 percentage points greater than conventional straight radial wheels. Riveted high-strength aluminum alloy blades and side plates minimize overhung wheel weight and starting inertia. Ductile-iron, taper-lock hubs make wheels easily removable.

Note: Maximum operating temperature of aluminum wheel is 200°F.



Optional Steel

Either welded steel or stainless-steel wheel construction is available in straight radial design. AMCA Certified Ratings Seal applies to Pressure Blowers with aluminum-wheel design only. Air volume and pressure capabilities are the same as the dual-taper aluminum wheel, but brake horsepower requirements are typically higher. Refer to The New York Blower Company's fan-selection program for details.

Note: Maximum operating temperature of steel wheel with heat fan construction is 600°F. Some fan-and-motor combinations with steel wheels may be restricted due to starting torque requirements. Consult **nyb**.

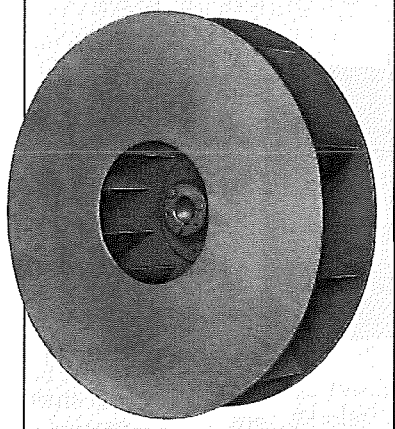


Chart II

STEEL WHEEL HORSEPOWER CORRECTIONS

18" Pressure Blower with 04 outlet to handle 400 CFM at 23½"SP at .075 lbs./ft.³ density. Aluminum wheels require 2.6 BHP as shown on page 7. Steel or stainless-steel wheels require [1.15 x 2.6] 3.0 BHP.

Outlet size	Wheel size	BHP correction factors
03	14 to 22 23 to 26	0.96 1.02
04	14 to 26	1.15
06	14 to 18 19 to 26	1.06 1.15
08	15 to 22 23 to 26	1.06 1.15
10	19 to 26	1.06
12	23 to 26	1.06

Spark-Resistant Construction [SRC]

Intended to minimize the potential for any two or more fan components to generate sparks within the airstream by rubbing or striking during operation.

The following types are available:

AMCA A [AIRSTREAM] SRC

To include all airstream parts constructed of a spark-resistant alloy . . . maximum temperature: 200°F.

AMCA B [WHEEL] SRC

To include the fan wheel constructed of a spark-resistant alloy and a buffer plate around the housing shaft-hole opening . . . maximum temperature: 200°F.

Chart I Maximum Safe Speeds [RPM]†

Wheel diameter	Aluminum wheel	Steel wheel	
	All Arr.	Arr. 1, 4, 4-V, 8, 9*	Arr. 10
14	4000	4000	4000
15	4000	4000	4000
16	4000	4000	4000
17	4000	4000	4000
18	4000	4000	4000
19	3900	3900	2992
20	3900	3900	2918
21	3900	3900	2851
22	3900	3900	2787
23	3800	3800	3178
24	3800	3800	3121
25	3800	3800	3068
26	3800	3800	3017

† derate for temperature not required.
* Arr. 9 fans may have additional speed limits based on pedestal length.

SAFETY EQUIPMENT

Safety accessories are available from **nyb**, but selection of the appropriate devices is the responsibility of the system-designer who is familiar with the particular installation, or application, and can provide for guards for all exposed moving parts as well as protection from access to high-velocity airstreams. Neither **nyb** nor its sales representatives is in a position to make such a determination. Users and/or installers should read "Recommended Safety Practices for Air Moving Devices" as published by the Air Movement and Control Association International, Arlington Heights, Illinois.

PERFORMANCE

USING PERFORMANCE CURVES

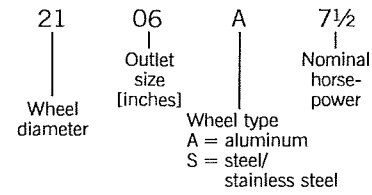
Performance is shown according to outlet sizes for quick reference to duct diameter. Brake horsepower increments are identified on each curve. Recommended standard blower size and motor combinations, which are based on the most efficient area of operation, are listed on page 14 for Arrangements 4, 4-V, and 8. Nonstandard combinations are generally available, but are usually less efficient than the standard combinations.

SIZING NOMENCLATURE

7-digit model number designates the wheel diameter, outlet size, wheel type, and nominal motor horsepower.

Note: the last two digits showing motor horsepower are not required for Arrangement 1 Pressure Blowers.

EXAMPLE



PROCEDURE	STEPS	EXAMPLE
Determine the appropriate outlet size.	1	The 06 outlet is selected for 800 CFM at 32"SP.
Plot the CFM and SP [standard] and select a performance curve for the fan size that meets or slightly exceeds the required performance.	2	A Size 2106A will provide 800 CFM at 33.6"SP.
Determine the BHP required for the point of operation . . . see page 4 for steel or stainless-steel wheel factors.	3	2106A requires 6.3 BHP. 2106S requires 7.2 BHP [6.3 x 1.15].
Read to the right to select motor horsepower.	4	A 7½ HP motor will cover both wheel types.

Note: The horsepower coverage of a given motor will increase 15% when a 1.15 service factor motor is utilized.

CORRECTION FACTORS

Performance is based on actual cubic feet per minute [ACFM] at the blower inlet at standard density [.075 lbs./ft.^{3}] and static pressure at the blower outlet. Static pressure capabilities are shown in inches water gauge ["WG].

Air density corrections are necessary for proper selection when air density varies from the standard .075 lbs./ft.^{3} at 70°F. at sea level. This also occurs when negative static pressure exists [rarefication] on the inlet side of the fan. Multiply the required static pressure at conditions by the appropriate factors in Charts III, IV, and V to obtain corrected pressure for blower selection. Pressure and BHP will be reduced at conditions by the inverse of these factors. Multiply one factor by the other if temperature, altitude, and rarefication are non-standard. For example: If the installation is located at an altitude of 4000 feet, the gas temperature is 300°F., and the inlet pressure is –40"WG, the correction factor is 1.84 [1.16 x 1.43 x 1.11].

CHART III
ALTITUDE [ft.] CORRECTIONS

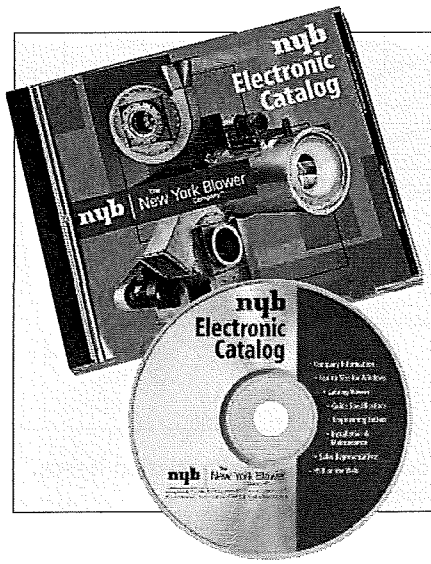
Alt.	Factor
0	1.00
500	1.02
1000	1.04
1500	1.06
2000	1.08
2500	1.10
3000	1.12
3500	1.14
4000	1.16
4500	1.18
5000	1.20
6000	1.25
7000	1.30
8000	1.35
9000	1.40
10000	1.45

CHART IV
TEMPERATURE CORRECTIONS

Temp. °F.	Factor
0	.87
20	.91
40	.94
60	.98
70	1.00
80	1.02
100	1.06
120	1.09
140	1.13
160	1.17
180	1.21
200	1.25
300	1.43
400	1.62
500	1.81
600	2.00

CHART V
RAREFICATION CORRECTIONS

Neg. inlet pressure "WG	Factor
15	1.04
20	1.05
25	1.07
30	1.08
35	1.09
40	1.11
45	1.12
50	1.14
55	1.16
60	1.17
65	1.19
70	1.21
75	1.23
85	1.26



ELECTRONIC CATALOG

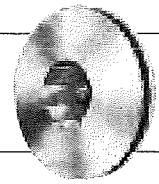
A complete New York Blower Catalog on one CD. No more manual calculations and bulky product catalogs. A critical tool for all system-designers and engineers who select and specify air-moving equipment.

SELECTION BENEFITS
- Fast, accurate fan selection.
- Automatic altitude, temperature, and density corrections.
- Sound levels by octave band.
- Fan-performance curves.
- Multiple model and size choices.
- Metric or English units.

CATALOG CONTENTS
- Fan-selection program.
- Complete product catalog in PDF including drawings, dimensions, and design specifications.
- Sample guide specifications.
- New York Blower Engineering Letters.
- Installation and Maintenance Manuals.
- Listing of New York Blower representatives.

To obtain your copy of New York Blower's Electronic Catalog contact your local New York Blower representative or go to www.nyb.com and click on *Selection/Engineering Tools*.

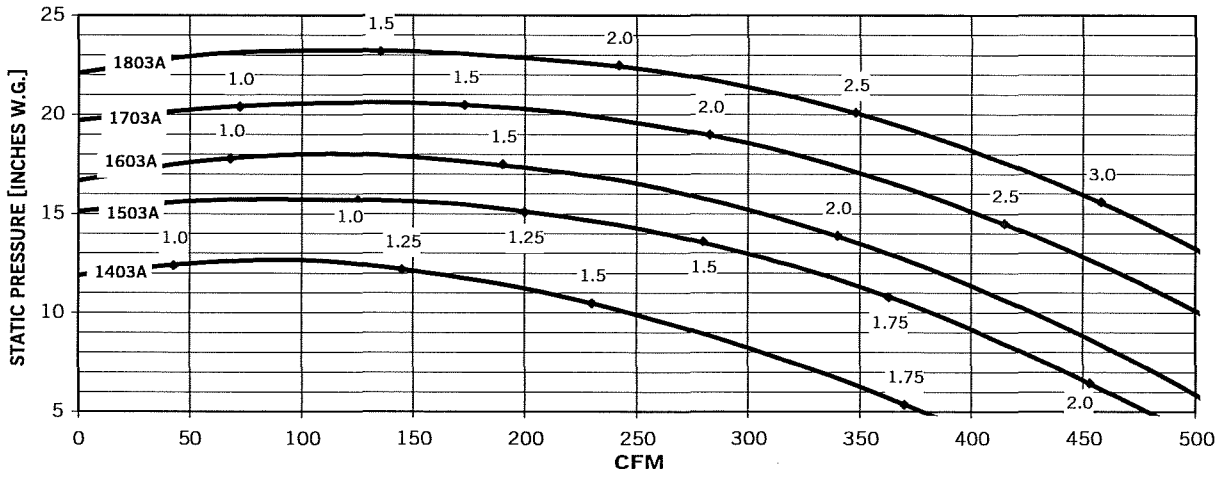
PERFORMANCE AT 3500 RPM



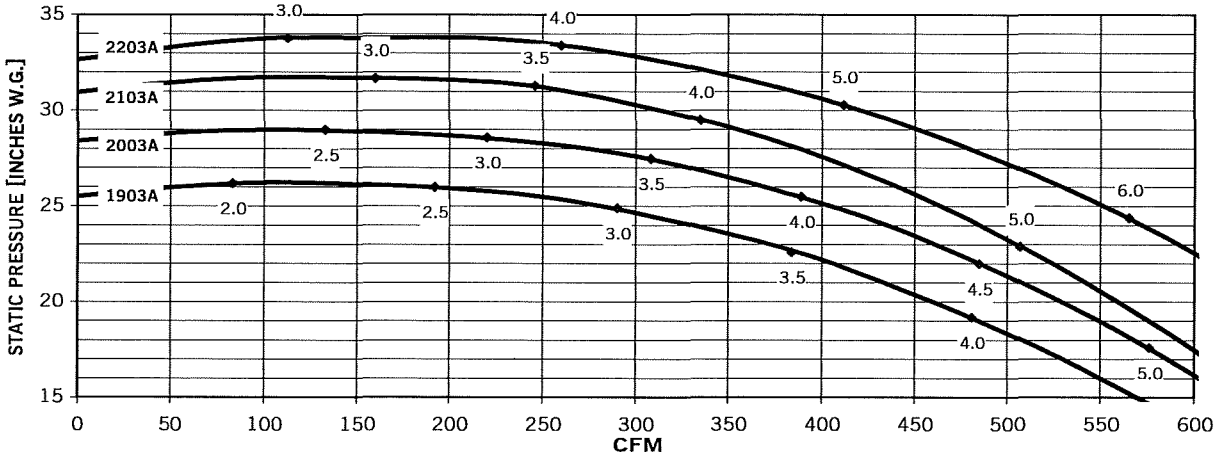
Aluminum Wheel
Pressure Blower

NOTE: Values shown on curves indicate brake horsepower [BHP] required.

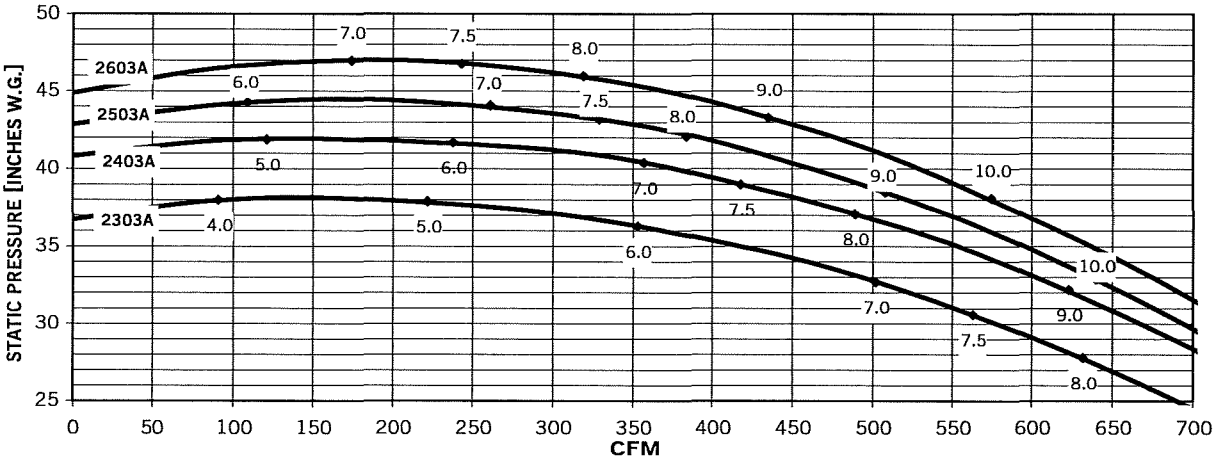
1403A-1803A



1903A-2203A

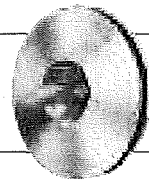


2303A-2603A



Performance certified is installation Type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

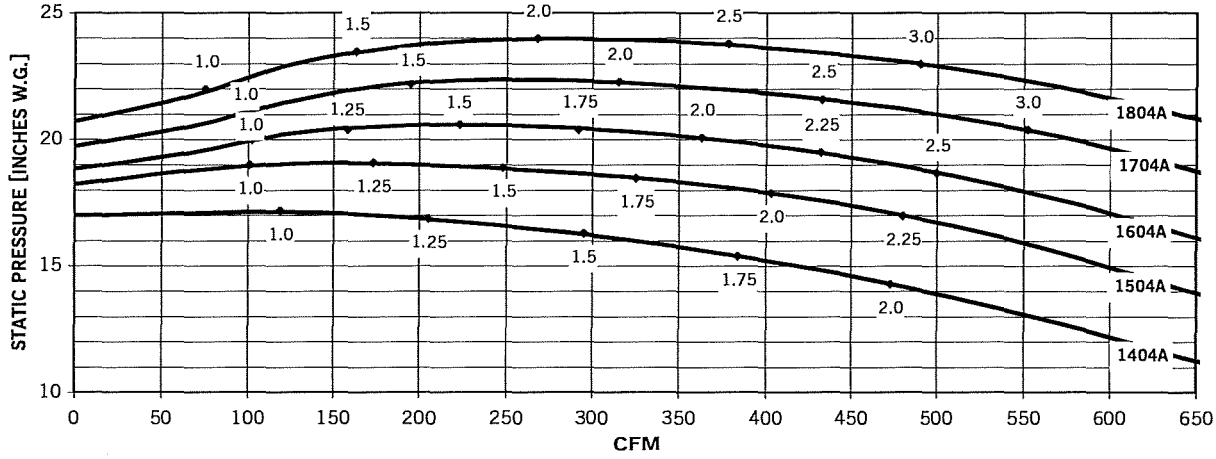
PERFORMANCE AT 3500 RPM



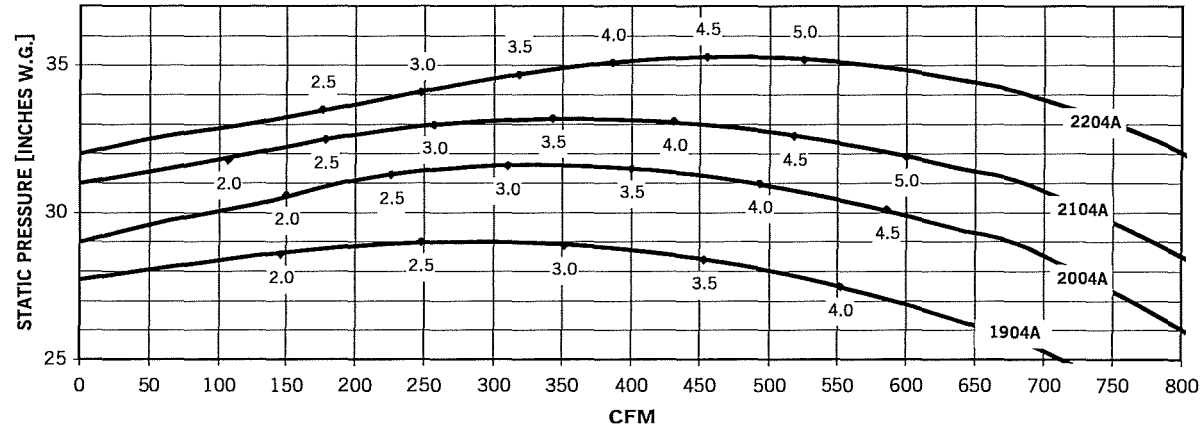
Aluminum Wheel
Pressure Blower

NOTE: Values shown on curves indicate brake horsepower [BHP] required.

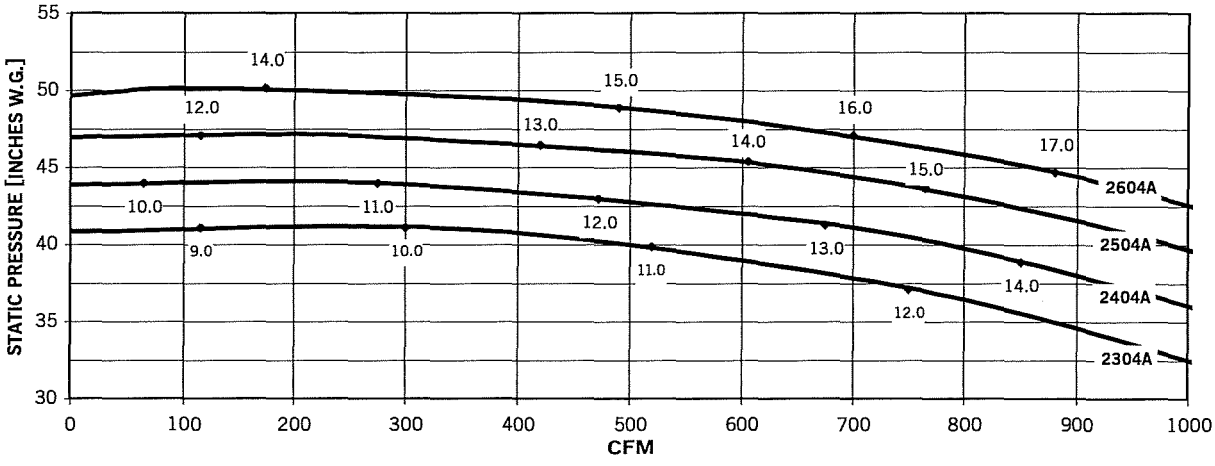
1404A-1804A



1904A-2204A

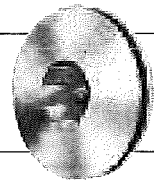


2304A-2604A



Performance certified is installation Type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

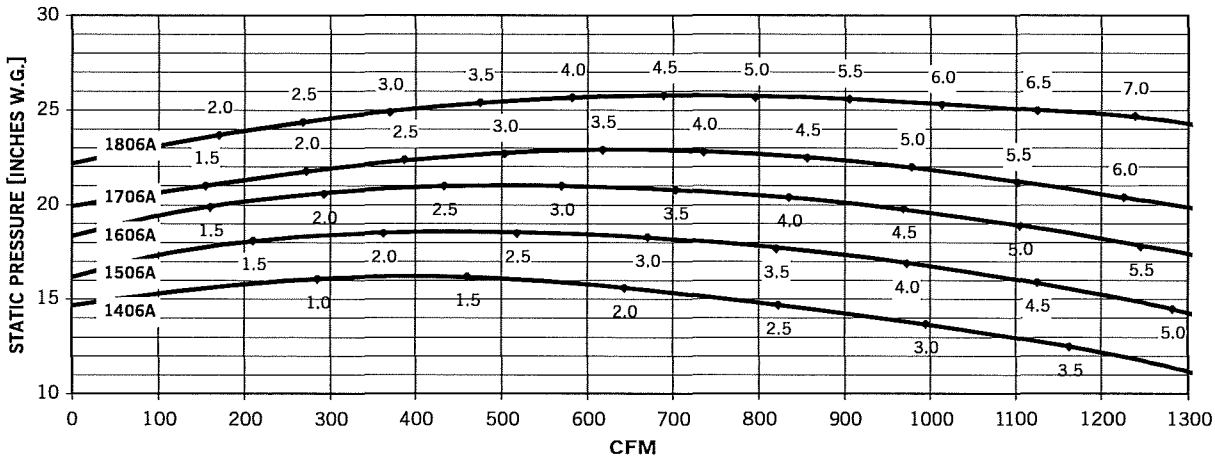
PERFORMANCE AT 3500 RPM



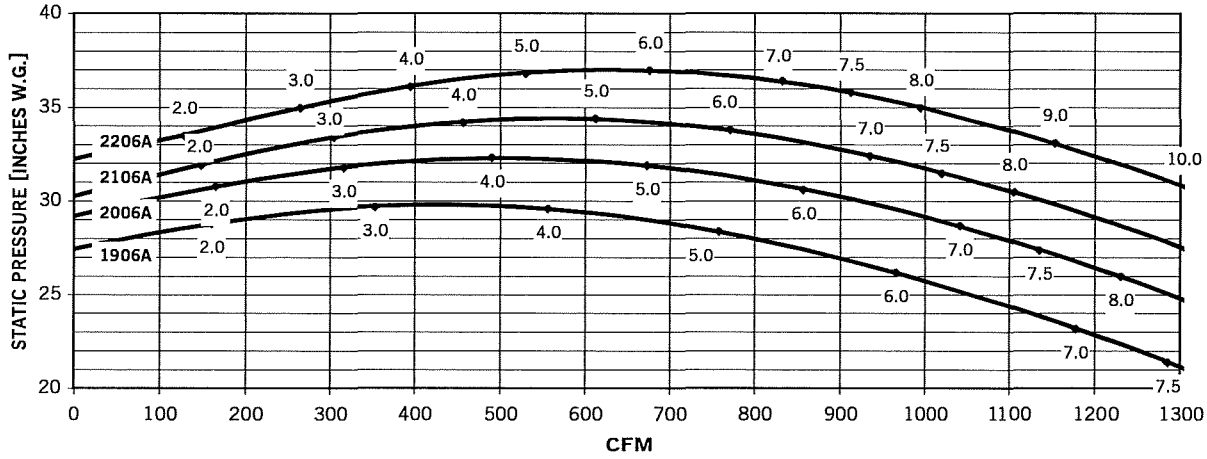
Aluminum Wheel
Pressure Blower

NOTE: Values shown on curves indicate brake horsepower [BHP] required.

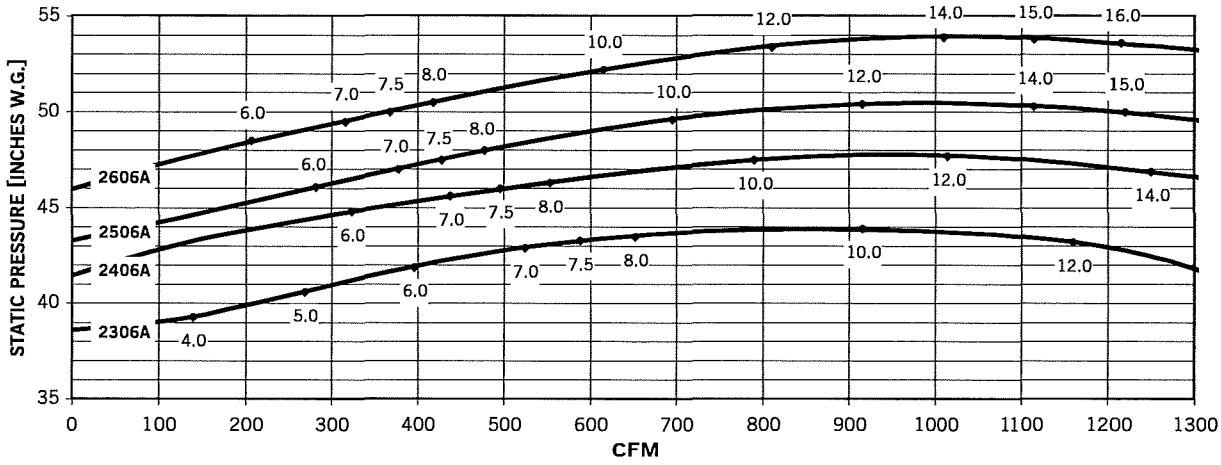
1406A-1806A



1906A-2206A

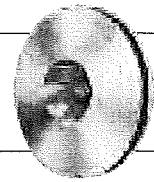


2306A-2606A



Performance certified is installation Type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

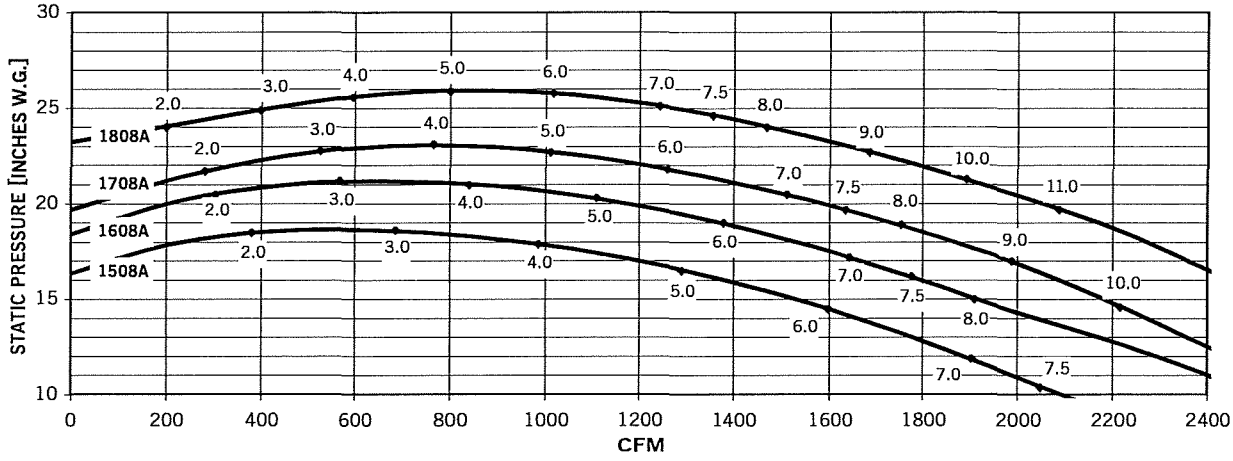
PERFORMANCE AT 3500 RPM



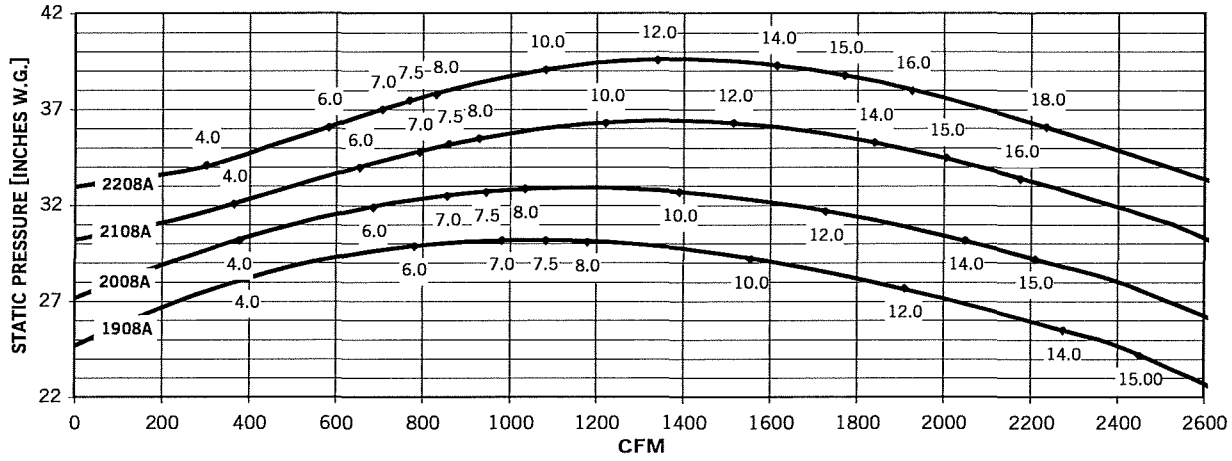
Aluminum Wheel
Pressure Blower

NOTE: Values shown on curves indicate brake horsepower [BHP] required.

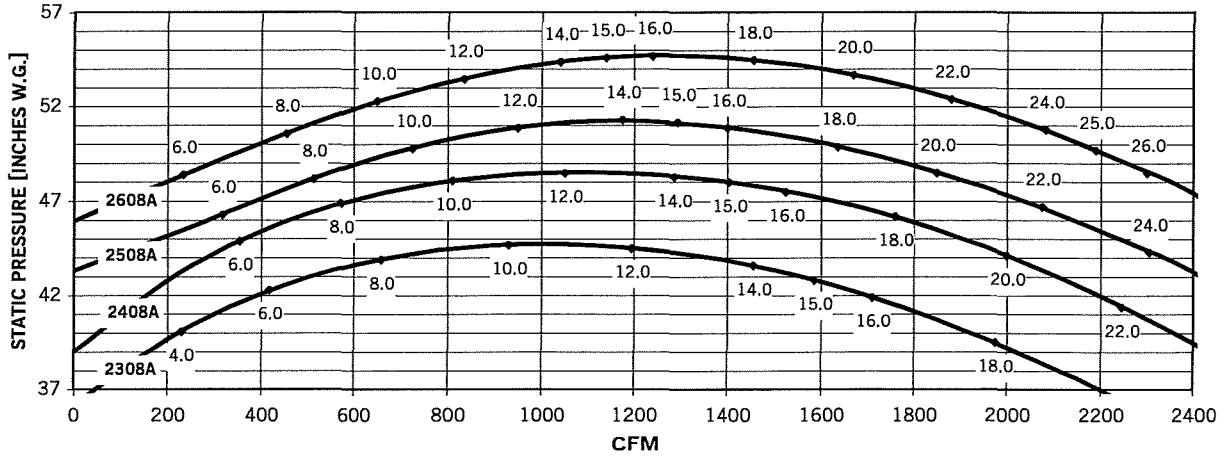
1508A-1808A



1908A-2208A

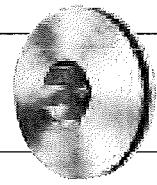


2308A-2608A



Performance certified is installation Type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

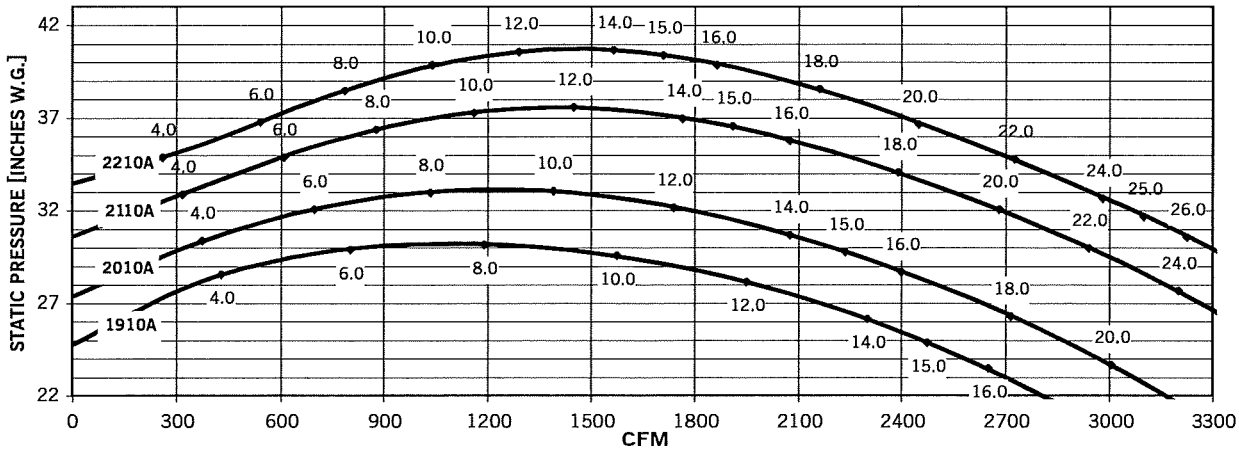
PERFORMANCE AT 3500/3550 RPM



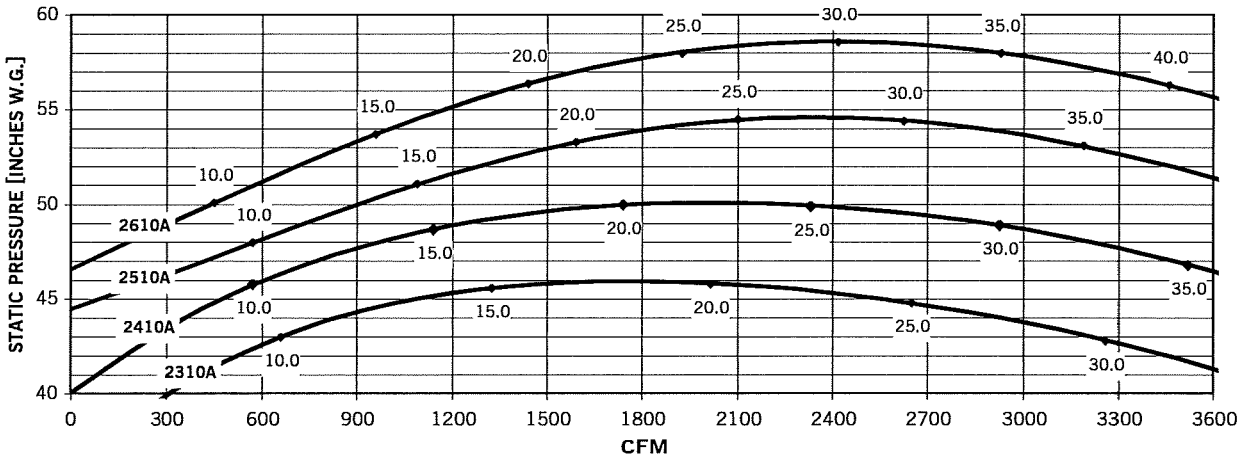
Aluminum Wheel
Pressure Blower

NOTE: Values shown on curves indicate brake horsepower [BHP] required.

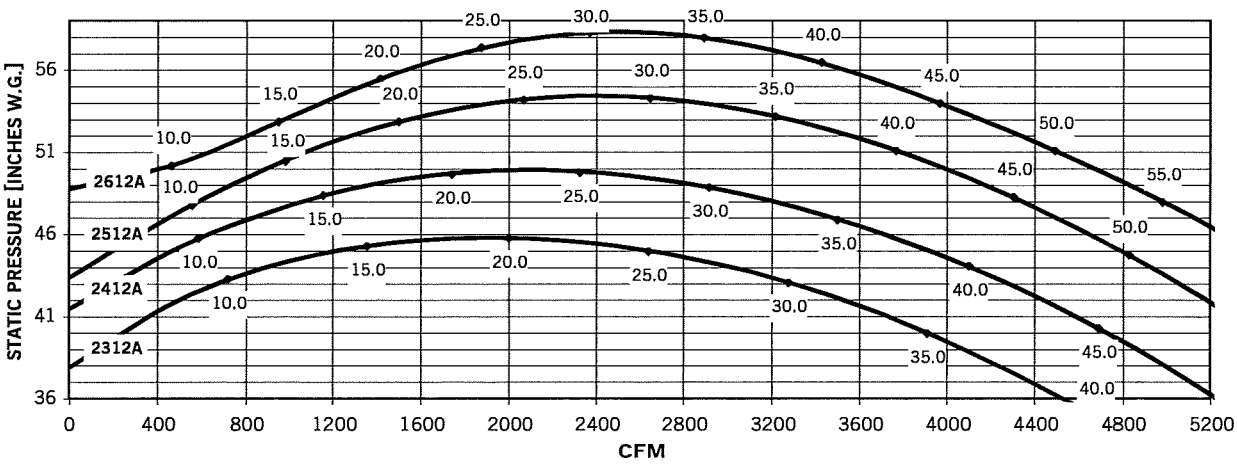
1910A-2210A



2310A-2610A



2312A-2612A



Performance certified is installation Type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

SPECIFICATIONS

U.S. standard sheet gauge to 7 gauge. Dimensions in inches. Weights in pounds. WR^2 in lb.-ft.^{2}.

WHEEL SPECIFICATIONS

Size	Aluminum		Steel	
	Wt.	WR^2	Wt.	WR^2
1403	10.1	0.96	19.7	2.74
1404	8.5	1.43	18.0	3.04
1406	11.7	2.40	20.5	3.46
1503	10.8	1.23	21.8	3.59
1504	8.8	1.69	19.0	3.68
1506, 1508	11.8	2.40	21.5	4.16
1603	11.5	1.53	23.9	4.56
1604	9.0	1.98	20.0	4.41
1606, 1608	12.1	2.50	23.0	5.07
1703	12.3	1.93	26.3	5.79
1704	9.3	2.30	21.0	5.22
1706, 1708	12.2	2.60	24.5	6.09
1803	13.0	2.36	28.6	7.16
1804	9.5	2.65	22.0	6.13
1806, 1808	12.4	2.60	26.0	7.25
1903	14.2	2.92	31.1	8.42
1904, 1906	12.0	3.73	29.5	9.16
1908, 1910	15.1	5.10	34.5	10.72
2003	15.1	5.02	33.7	10.23
2004, 2006	12.3	4.22	31.0	10.67
2008, 2010	15.3	5.20	36.5	12.56
2103	16.0	4.24	36.5	12.31
2104, 2106	12.5	4.74	32.5	12.33
2108, 2110	15.5	5.30	38.0	14.42
2203	17.1	5.02	39.3	14.70
2204, 2206	12.8	5.31	34.0	14.16
2208, 2210	15.6	5.40	40.0	16.66
2303	18.3	6.07	49.4	20.83
2304	19.8	6.50	52.5	22.27
2306, 2308	18.5	8.42	45.0	20.93
2310, 2312	21.7	10.60	53.5	24.35
2403	19.4	7.16	53.1	24.50
2404	20.9	7.80	56.4	26.14
2406, 2408	18.8	9.29	48.0	23.79
2410, 2412	21.9	10.80	56.0	27.75
2503	20.5	8.33	56.9	28.64
2504	22.0	9.00	60.4	30.49
2506, 2508	19.0	10.22	50.0	26.89
2510, 2512	21.9	11.00	58.5	31.46
2603	21.8	9.63	60.9	33.27
2604	23.1	10.30	64.5	35.36
2606, 2608	19.3	11.20	52.0	30.24
2610, 2612	22.3	11.20	61.0	35.48

MATERIAL SPECIFICATIONS

HOUSING

Wheel diameter	Sides	Scroll	Inlet plate	Drive plate
14-18	10	10	1/4	10
19-22	10	10	1/4	10
23-26	10	10	1/4	10

SHAFT DIAMETER

Wheel diameter	Arrangement 1		Arrangement 8	
	Standard	Heat Fan with Shaft Seal	Standard	Heat Fan with Shaft Seal
14-18	1 7/16	1 7/16	1 7/16	1 7/16
19-22	1 7/16	1 11/16	1 7/16	1 7/16
23-26	1 11/16	1 15/16‡	1 7/16	1 11/16

SHAFT DIAMETER

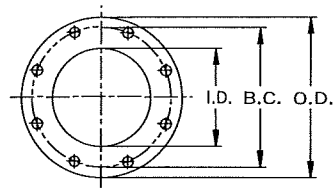
Wheel diameter	Arrangement 9		Arrangement 10	
	Standard	Heat Fan with Shaft Seal	Standard	Heat Fan
14-18	1 7/16	1 7/16	1 7/16	1 7/16
19-22	1 11/16	1 11/16	1 7/16	1 7/16
23-26	1 15/16	1 15/16	1 11/16	1 11/16

BEARINGS*

Wheel diameter	Arrangement 1/9		Arrangement 8	Arrangement 10
	Inboard	Outboard		
14-18	A	A‡	A	A
19-22	B	B	A	B
23-26	C	B‡	A	B

A–200 Series ball bearing. B–22400 Series roller bearing.
C–300 Series ball bearing.
***nyb** reserves the right to substitute bearings of equal rating.
‡ Fans with heat fan construction and shaft seal:
Arr. 1: Sizes 23-26 include a shaft turndown at the outboard bearing, with a bearing size of 1 11/16". Inboard bearing size is 1 15/16".
Arr. 9: Sizes 14-18 include a Type B outboard bearing, in lieu of the standard Type A.

FLANGE



DIMENSIONS [INCHES]

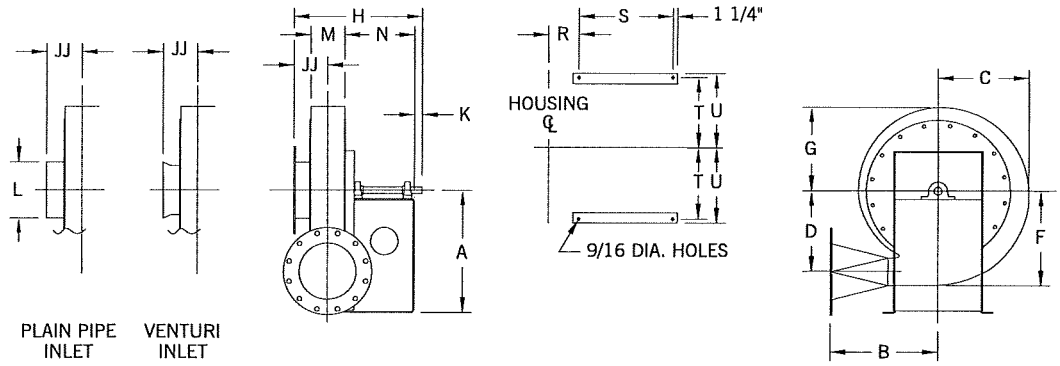
Size	I.D.	O.D.	Bolt circle	Holes† No. – size
03	3	7 1/2	6	4 – 3/4"
04	4	9	7 1/2	8 – 3/4"
05	5	10	8 1/2	8 – 7/8"
06	6	11	9 1/2	8 – 7/8"
08	8	13 1/2	11 3/4	8 – 7/8"
10	10	16	14 1/4	12 – 1"
12	12	19	17	12 – 1"

† Holes straddle centerline. ANSI Class 125/150 hole pattern. Flange thickness 3/8"

ARRANGEMENTS 1/9

PRESSURE BLOWERS

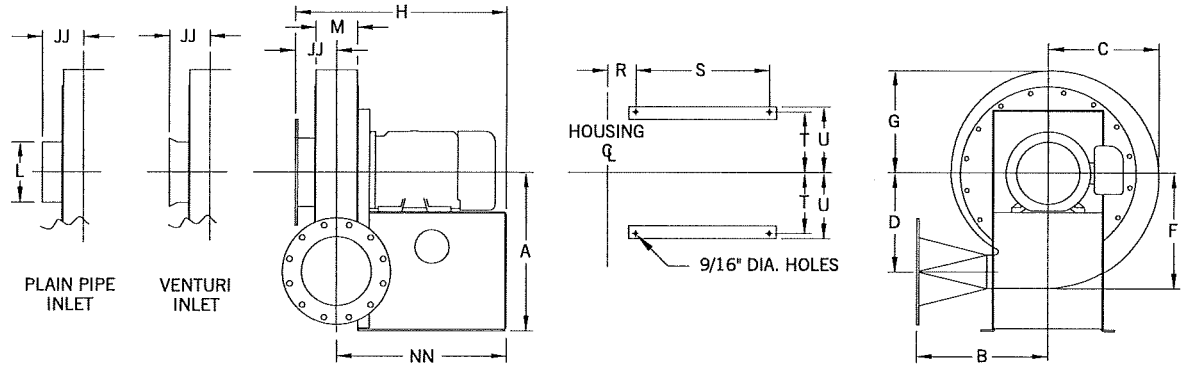
Maximum Airstream Temperature:
200°F. – aluminum wheel.
300°F. – steel wheel.
600°F. – heat fan.



ARRANGEMENT 4

PRESSURE BLOWERS

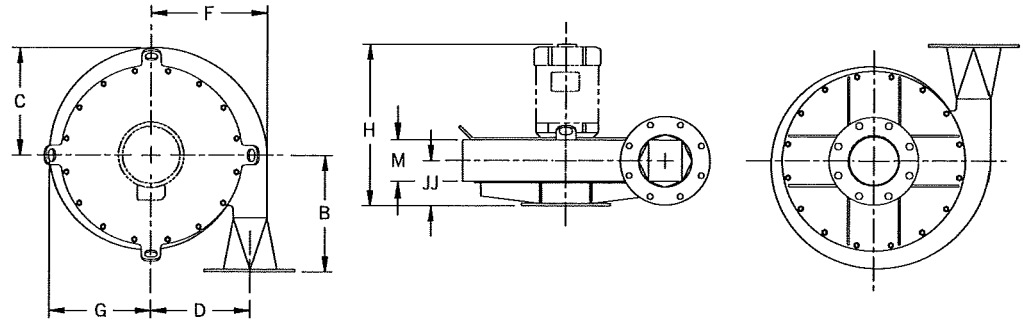
Maximum Airstream Temperature:
180°F.



ARRANGEMENT 4-V

PRESSURE BLOWERS

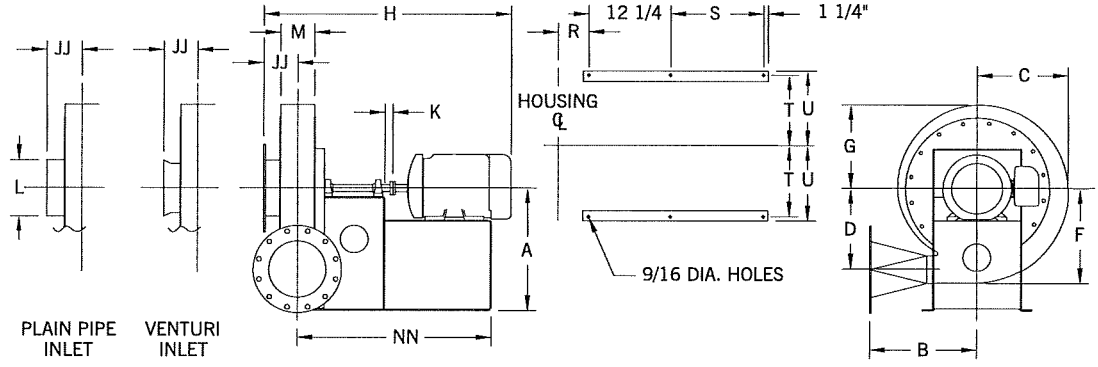
Maximum Airstream Temperature:
120°F.



ARRANGEMENT 8

PRESSURE BLOWERS

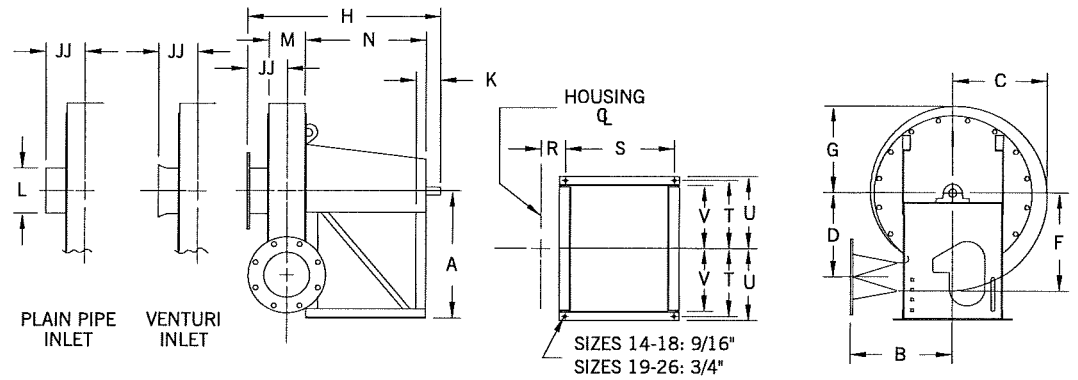
Maximum Airstream Temperature:
200°F. – aluminum wheel.
300°F. – steel wheel.
600°F. – heat fan.



ARRANGEMENT 10

PRESSURE BLOWERS

Maximum Airstream Temperature:
200°F. – aluminum wheel.
300°F. – steel wheel.
600°F. – heat fan.



ARRANGEMENTS 1, 4, 4-V, 8, 9, 10

Dimensions not to be used for construction unless certified. Bare fan weight does not include wheel or motor. Weights in pounds. Wheel weights on page 11.

HOUSING DIMENSIONS [INCHES]

Fan Size	Outlet Size	Inlet Size	B	C	D	F	G	M	JJ [Inlet types] Flanged	JJ [Inlet types] Plain pipe	JJ [Inlet types] Venturi	L
14-18	03	05	18 1/4	13 5/8	11 3/4	14 3/8	12 3/4	2 7/8	5 1/8	4 3/4	4 5/8	5 5/8
	04	06						3 7/8	5 5/8	5 1/4	4 7/8	6 5/8
	06	08						6 1/4	6 3/4	6 3/8	6 3/8	8 5/8
	08	08										
19-22	03	05	17 3/4	16 1/2	14 7/8	17 1/2	15 1/2	2 7/8	5 5/8	5 1/4	5 1/4	5 5/8
	04	06						3 7/8	6 1/8	5 3/4	5 3/8	6 5/8
	06	06										
	08	08						6 1/4	6 3/4	6 3/8	6 3/8	8 5/8
	10	10	21 3/4									
23-26	03	05	19	19 1/2	17 5/8	20 5/8	18 1/4	3 5/8	6 3/8	6	5 5/8	5 5/8
	04	06						5	7	6 5/8	6 5/8	6 5/8
	06	08										8 5/8
	08	08										
	10	10	23					7 1/4	7 1/4	6 7/8	6 7/8	10 3/4
	12	12										

Tolerance: ± 1/8"

BARE FAN WEIGHTS AND MOTOR LIMITATIONS

Fan Size	Outlet Size	Inlet Size	Arr. 1 Wt.	Motor Frame Size (Arr. 4, 8)	Weight Arr. 4	Weight Arr. 8	Arr. 4-V Motor Frame Size	Arr. 4-V Weight
14-18	03	05	200	143T-145T	145	285	182TC-184TC	130
				182T-184T	170			
	04	06	205	143T-145T	150	290	182TC-184TC	135
				182T-184T	175			
	06	08	220	143T-145T	165	305	182TC-184TC	150
				182T-184T	190			
				213T-215T		310	213TC-215TC	
15-18	08	08	220	182T-184T	190	305	182TC-184TC	155
				213T-215T		310	213TC-215TC	
19-22	03	05	270	143T-145T	235	380	182TC-184TC	180
				182T-184T				
	04	06	275	143T-145T	245	385	182TC-184TC	185
				182T-184T				
	06	06	275	143T-145T	245	390	182TC-184TC	190
				182T-184T				
				213T-215T		395	213TC-215TC	
	08	08	290	182T-184T	260	405	182TC-184TC	205
				213T-215T		410	213TC-215TC	
				254T-256T	290	425	254TC-256TC	
	10	10	300	213T-215T	270	415	213TC-215TC	215
				254T-256T	300	435	254TC-256TC	
				284TS-286TS		430	284TCS-286TCS	
23-26	03	05	350	182T-184T	270	400	182TC-184TC	235
				213T-215T		445	213TC-215TC	
				254T-256T	300	450	254TC-256TC	
	04	06	350	182T-184T	275	445	182TC-184TC	245
				213T-215T		450	213TC-215TC	
				254T-256T	300	470	254TC-256TC	
	06	08	365	182T-184T	285	460	182TC-184TC	245
				213T-215T		465	213TC-215TC	
				254T-256T	315	485	254TC-256TC	
	08	08	365	213T-215T	290	470	213TC-215TC	250
				254T-256T	320	485	254TC-256TC	
				284TS-286TS		490	284TCS-286TCS	
	10	10	385	254T-256T	335	505	254TC-256TC	265
				284TS-286TS			284TCS-286TCS	
				324TS-326TS	360	510	324TCS-326TCS	
	12	12	395	284TS-286TS	345	515	284TCS-286TCS	280
				324TS-326TS	370	520	324TCS-326TCS	

N/A: Not Available due to motor shaft/wheel fit.

Fan Size	Outlet Size	Arr. 9 Pedestal Number	Arr. 9 Weight	Arr. 10 Weight	Arr. 10 Max. Motor Size ODP	Arr. 10 Max. Motor Size TEFC	Arr. 10 Max. Motor Size C-NW
14-18	03	1	201	190	215T	215T	16 5/8
		2	215				
		3	246				
		4	286				
	04	1	206	200			
		2	220				
		3	251				
		4	291				
	06,08	1	221	215			
		2	235				
		3	266				
		4	306				
19-22	03	5	270	305	256T	254T	18 5/8
		6	287				
		7	330				
		8	345				
		9	354				
	04,06	5	275	315			
		6	292				
		7	335				
		8	350				
		9	359				
	08,10	5	300	335			
		6	317				
		7	360				
		8	375				
		9	384				
23-26	03,04	10	417	355	256T	254T	18 5/8
		11	433				
		12	443				
		13	523				
	06,08	10	432	370			
		11	448				
		12	458				
		13	538				
	10,12	10	462	400			
		11	478				
		12	488				
		13	568				

Tolerance: ± 1/8"

ARRANGEMENTS 4, 4-V, 8

Dimensions not to be used for construction unless certified. Note: See page 12 for dimensional drawings.

Wheel dia.	Outlet Size	Inlet flange	Arr. 4 & 8 Motor Frame Size	A		H*		Arr. 4-V Motor Frame Size	H*	K	NN		R	S		T		U	
				Arr. 4	Arr. 8†	Arr. 4	Arr. 8		Arr. 4-V	Arr. 8	Arr. 4	Arr. 8		Arr. 4	Arr. 8	Arr. 4	Arr. 8	Arr. 4	Arr. 8
14-18	03	05	143T-145T	17¾	19½	18	38½	182TC-184TC	20⅞	3⅜	13	31⅜	2⅞	8⅝	15	8⅞	9⅛	9¾	10
			182T-184T	19		23½	40⅞				17⅞	32⅞		14⅛	16½				
	04	06	143T-145T	17¾		19	39½	182TC-184TC	21⅞		13½	31⅞	3⅜	8⅝	15				
			182T-184T	19		24½	41⅞				18⅜	33⅜		14⅛	16½				
	06	08	143T-145T	17¾		21⅜		182TC-184TC	24¼		14⅝	33	4½	8⅝	15				
			182T-184T	19		26⅞	44⅜				20⅛	34½		14⅛	16½				
			213T-215T	19¾			47½	213TC-215TC	25½	2⅞		36¾			18¾				
15-18	08	08	182T-184T	19	19½	26⅞	44⅜	182TC-184TC	24¼	3⅜	20⅛	34½	4½	14⅛	16½				
			213T-215T	19¾			47½	213TC-215TC	25½	2⅞		36¾			18¾				
19-22	03	05	143T-145T	23	23⅝	24	38⅞	182TC-184TC	21⅜	3⅜	18½	31⅜	2⅞	14⅛	15	10⅞	10⅞	11¾	11¾
			182T-184T	24			41½					32⅞			16½				
	04	06	143T-145T	23		25	39⅞	182TC-184TC	22⅜		19	31⅞	3⅜	14⅛	15				
			182T-184T	24			42½					33⅜			16½				
	06	06	143T-145T	23		25	39⅞	182TC-184TC	22⅜		19	31⅞		14⅛	15				
			182T-184T	24			42½					33⅜			16½				
			213T-215T	24¾			45⅝	213TC-215TC	23⅝	2⅞		36⅝			18¾				
	08	08	182T-184T	24		26⅞	44⅜	182TC-184TC	24¼	3⅜	20⅛	34½	4½	14⅛	16½				
			213T-215T	24¾			47½	213TC-215TC	25½			36¾			18¾				
			254T-256T	26		32¼	51¾	254TC-256Tc	26⅝		25½	42⅛		19½	24⅛				
	10	10	213T-215T	24¾		26⅞	47½	213TC-215TC	25½	2⅞	20⅛	36¾		14⅛	18¾				
			254T-256T	26		32¼	51¾	254TC-256TC	26⅝		25½	42⅛		19½	24⅛				
			284TS-286TS	26¾			54⅜	284TCS-286TCS	33⅜			42⅞			24⅞				
23-26	03	05	182T-184T	24	26⅝	25⅛	43⅛	182TC-184TC	22½	3⅞	18¾	33¾	3¼	14⅛	17	10⅞	10⅞	11¾	11¾
			213T-215T	24¾			46¼	213TC-215TC	N/A			36			19¼				
			254T-256T	26		30½	50½	254TC-256TC	N/A		24¼	41⅜		19½	24⅝				
	04	06	182T-184T	24		26½	44½	182TC-184TC	23⅞		19½	34⅜	3⅞	14⅛	17				
			213T-215T	24¾			47⅝	213TC-215TC	N/A			36⅝			19¼				
			254T-256T	26		31⅞	51⅞	254TC-256TC	N/A		24⅞	42		19½	24⅝				
	06	08	182T-184T	24		26½	44½	182TC-184TC	23⅞		19½	34⅜		14⅛	17				
			213T-215T	24¾			47⅝	213TC-215TC	25⅛	3¼		36⅝			19¼				
			254T-256T	26		31⅞	51⅞	254TC-256TC	26¼		24⅞	42		19½	24⅝				
	08	08	213T-215T	24¾		26½	47⅝	213TC-215TC	25⅛		19½	36⅝		14⅛	19¼				
			254T-256T	26		31⅞	51⅞	254TC-256TC	26¼		24⅞	42		19½	24⅝				
			284TS-286TS	26¾			53	284TS-286TS	33			42¾			25⅜				
	10	10	254T-256T	26		33¼	53¼	254TC-256TC	27⅝		26	43⅛		19½	24⅝				
			284TS-286TS	26¾			54⅜	284TCS-286TCS	34⅜			43⅞			25⅜				
			324TS-326TS	29¼		37¼	56⅞	324TCS-326TCS	36⅜		30	46⅜	5	23½	27⅞				
	12	12	284TS-286TS	28¼		37¼	54⅜	284TCS-286TCS	34⅜		30	43⅞		23½	25⅜				
			324TS-326TS	29¼			56⅞	324TCS-326TCS	36⅜			46⅜			27⅞				

N/A = Not Available

Tolerance: ± ⅛"

* Dimensions may vary slightly depending on motor manufacturer. Given "H" dimensions were based on the larger of those motors most frequently used by **nyb.** † On fan Sizes 23-26 with Size 12 outlet and Bottom Horizontal discharge, the flange extends ½" below the floorline.

The New York Blower Company has a policy of continuous product development and reserves the right to change designs and specifications without notice.

ARRANGEMENTS 1, 9, 10

Dimensions not to be used for construction unless certified. Note: See page 12 for dimensional drawings.

ARRANGEMENTS 1, 9, & 10 DIMENSIONS [INCHES]

Wheel dia.	Outlet Size	Inlet flange	A†		H		K		N		R		S	T		U		V
			Arr. 1	Arr. 10	Arr. 1	Arr. 10	Arr. 1/9	Arr. 10	Arr. 1	Arr. 10	Arr. 1/9	Arr. 10	Arr. 1	Arr. 10	Arr. 1/9	Arr. 10	Arr. 1/9	Arr. 10	Arr. 10
14-18	03	05	19½	21	24⅝	30⅛	3	3½	15⅛	22	2⅞	3⅞	12¼	17⅜	9⅛	9⅜	10	10¼	8¼
	04	06			25⅝	31⅛					3⅜	4⅜							
	06	08			28	33½					4½	5½							
15-18	08	08																	
19-22	03	05	23⅝	27⅝	26⅛	35⅛	4	4½	15⅛	26	2⅞	4⅝		19⅞	10⅞	12¼	11¾	13	11
	04	06			27⅛	36⅛					3⅜	5⅛							
	06	06																	
	08	08			29	38					4½	6¼							
	10	10																	
23-26	03	05	26⅝	27⅞	28¼	36¼	5	4½	15⅛	26	3¼	4¼		19⅞	10⅞	12¼	11¾	13	11
	04	06																	
	06	08			29⅝	37⅝					3⅞	5⅝							
	08	08																	
	10	10			31	39					5	6¾							
	12	12																	

† On fan sizes 12, outlet and Bottom Horizontal discharge, the flange extends ½" below the floorline.

Tolerance: ± ⅛"

ARRANGEMENT 9 DIMENSIONS [INCHES]

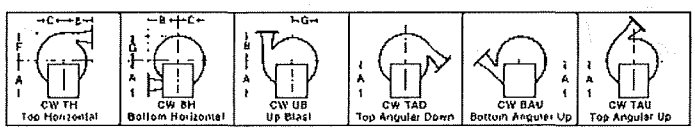
Fan Size	Outlet Size	Pedestal Number	H
14-18	03	1	24⅝
		2	28⅜
		3	32⅛
		4	35¼
	04	1	25⅝
		2	29⅜
		3	33⅛
		4	36¼
	06,08	1	28
		2	31¾
		3	35½
		4	38⅝
19-22	03	5	26⅛
		6	29⅞
		7	33⅝
		8	36¾
		9	38¾
	04,06	5	27⅛
		6	30⅞
		7	34⅝
		8	37¾
		9	39¾

Fan Size	Outlet Size	Pedestal Number	H
19-22	08,10	5	29
		6	32¾
		7	36½
		8	39⅝
		9	41⅝
23-26	03	10	35¾
		11	38⅞
		12	40⅞
		13	42⅞
	04,06,08	10	37⅛
		11	40¼
		12	42¼
		13	44¼
	10,12	10	38½
		11	41⅝
		12	43⅝
		13	45⅝

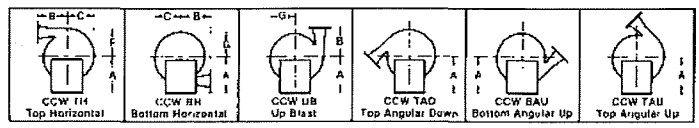
Fan Size	Pedestal Number	Max. C-NW	Max. Frame Size	A	N	S
14-18	1	13⅝	256T	19½	15⅛	12¼
	2	17⅜			18⅞	16
	3	21⅛			22⅝	19¾
	4	24¼	284T	23½	25¾	22⅞
19-22	5	13⅝	286T	23⅝	15⅛	12¼
	6	17⅜			18⅞	16
	7	21⅛			22⅝	19¾
	8	24¼			25¾	22⅞
	9	26¼			27¾	24⅞
23-26	10	21⅛	326T	26⅝	22⅝	19¾
	11	24¼			25¾	22⅞
	12	26¼			27¾	24⅞
	13	28¼	365T	30⅝	29¾	26⅞

Tolerance: ± ⅛"

FAN DISCHARGES – VIEWED FROM DRIVE SIDE



Clockwise—angular discharges at 45°



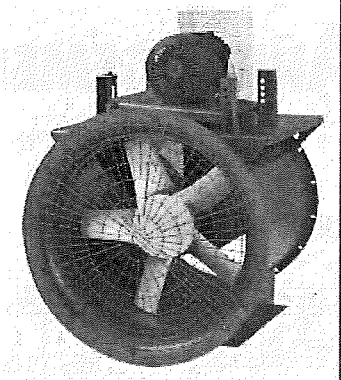
Counterclockwise—angular discharges at 45°

Housings are reversible and rotatable in 22½° increments except Down Blast and Bottom Angular Down which require special construction. Arrangement 10 fans Sizes 19–22 are not rotatable in the field.

The New York Blower Company has a policy of continuous product development and reserves the right to change designs and specifications without notice.

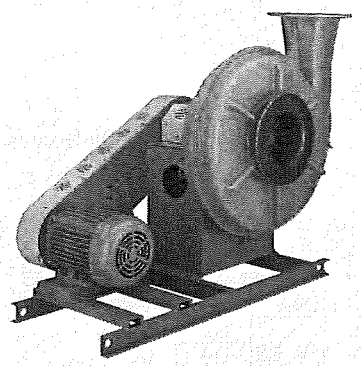
Complete Selection of Air-Moving Equipment

The New York Blower Company offers thousands of different types, models, and sizes of air-moving equipment. Contact your nyb representative for assistance in identifying the best fan for your application.



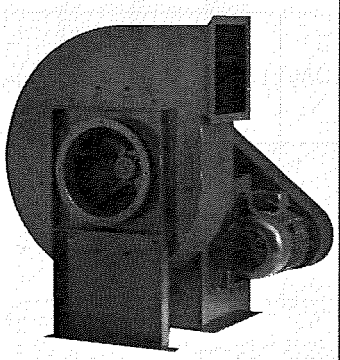
AIR-HANDLING [AXIAL]

For the ideal handling of clean to moderately dirty airstreams. Commercial and industrial HVAC, drying and cooling systems, fume extraction, and process-heat removal are typical applications.



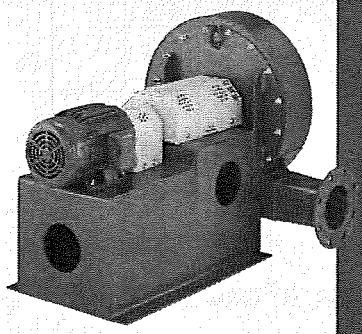
FIBERGLASS REINFORCED PLASTIC [FRP]

Choice of performance and duty for corrosive gas streams. Applications include chemical process, wastewater treatment, laboratory hood exhaust, and tank aeration.



DUST/MATERIAL HANDLING

Wide range of duty available with unique fan lines capable of handling light dust to heavy material. Typical applications include dust-collection and high-pressure process along with material-conveying.

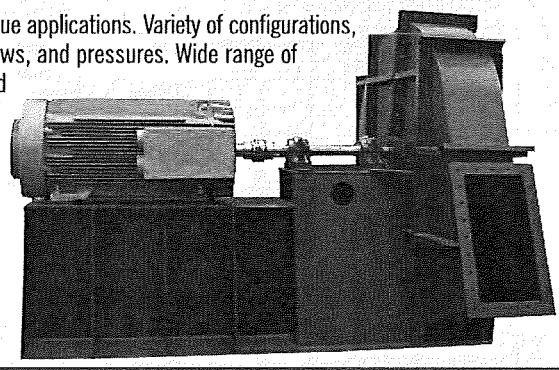


AIR-HANDLING [CENTRIFUGAL]

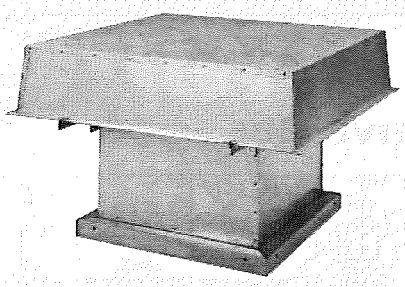
Designed for clean to moderately dirty gas streams. Commercial and industrial HVAC, process cooling, light material-conveying, heat removal, and dryer exhaust are just a few of the numerous sample applications

CUSTOM PRODUCTS

Designed for unique applications. Variety of configurations, temperatures, flows, and pressures. Wide range of modifications and accessories are available to meet the most demanding specifications.



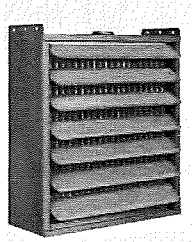
Leading the industry forward since 1889



ROOF VENTILATORS

Including both hooded and upblast ventilators, propeller fans, and centrifugal roof exhausters. These units are ideal for industrial, commercial, and institutional applications.

nyb



HEATING PRODUCTS

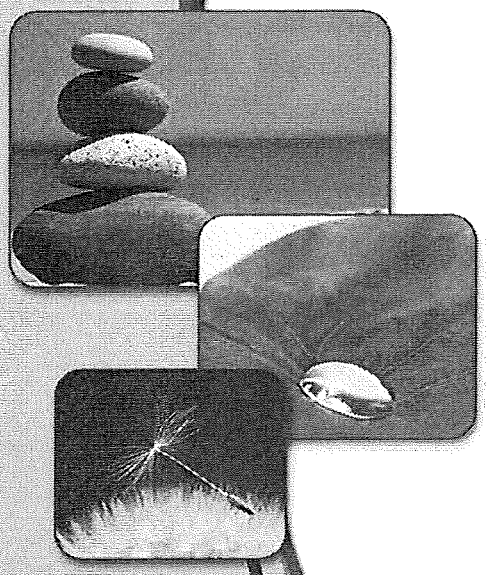
Industrial-duty steam unit heaters with steam heating coils are available for facility heating and process-heat transfer.

PROCESS/FAN COMPONENTS

Plug fans, plenum fans, wheels, inlet cones, and housings for a wide variety of OEM applications. Process/fan components are used in air-handling units, ovens, dryers, freezer tunnels, and filtration systems.

Appendix G

Soil Analytical Reports



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-64845-1
Client Project/Site: Village Cleaners 4610

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Scott McCurdy

Authorized for release by:
10/17/2013 1:35:32 PM
Bonnie Stadelmann, Project Manager II
bonnie.stadelmann@testamericainc.com

Designee for

Sandie Fredrick, Project Manager I
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-64845-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-64845-1

Comments
No additional comments.

Receipt
The samples were received on 10/12/2013 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.7° C.

GC/MS VOA
Method(s) 8260B: The matrix spike (-4MS) recoveries for 1,1,2-Trichloroethane and Bromobenzene were outside control limits. The associated laboratory control sample (LCS) and matrix spike duplicate (-4MSD) recoveries met acceptance criteria.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Cedar Corporation
Project/Site: Village Cleaners 4610

TestAmerica Job ID: 500-64845-1

Client Sample ID: V-2 20' — Lab Sample ID: 500-64845-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5600		54	9.0	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: V-3 20' — Lab Sample ID: 500-64845-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2000		52	8.7	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	20	J	26	9.7	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: V-4 40' — Lab Sample ID: 500-64845-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	27	J	51	8.6	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: V-5 20' — Lab Sample ID: 500-64845-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	29	J	49	8.2	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-64845-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Cedar Corporation
Project/Site: Village Cleaners 4610

TestAmerica Job ID: 500-64845-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Cedar Corporation
Project/Site: Village Cleaners 4610

TestAmerica Job ID: 500-64845-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-64845-1	V-2 20'	Solid	10/10/13 13:00	10/12/13 09:00
500-64845-2	V-3 20'	Solid	10/10/13 12:15	10/12/13 09:00
500-64845-3	V-4 40'	Solid	10/10/13 09:00	10/12/13 09:00
500-64845-4	V-5 20'	Solid	10/10/13 10:30	10/12/13 09:00
500-64845-5	Trip Blank	Solid	10/10/13 00:00	10/12/13 09:00

Client Sample ID: V-2 20'
Date Collected: 10/10/13 13:00
Date Received: 10/12/13 09:00

Lab Sample ID: 500-64845-1
Matrix: Solid
Percent Solids: 96.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,1,1-Trichloroethane	<11		54	11	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,1,2,2-Tetrachloroethane	<13		54	13	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,1,2-Trichloroethane	<15		54	15	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,1-Dichloroethane	<9.9		54	9.9	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,1-Dichloroethene	<16		54	16	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,1-Dichloropropene	<18		54	18	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,2,3-Trichlorobenzene	<19		110	19	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,2,3-Trichloropropane	<31		110	31	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,2,4-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,2,4-Trimethylbenzene	<11		110	11	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,2-Dibromo-3-Chloropropane	<47		110	47	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,2-Dichloroethane	<15		54	15	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,2-Dichloropropane	<11		54	11	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,3-Dichloropropane	<7.2		54	7.2	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
1,4-Dichlorobenzene	<9.3		110	9.3	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
2,2-Dichloropropane	<17		54	17	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
2-Butanone (MEK)	<79		270	79	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
2-Chlorotoluene	<11		54	11	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
4-Chlorotoluene	<11		54	11	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Benzene	<4.0		13	4.0	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Bromobenzene	<23		110	23	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Bromochloromethane	<20		110	20	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Bromodichloromethane	<18		110	18	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Bromoform	<24		110	24	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Bromomethane	<37		110	37	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Carbon tetrachloride	<14		54	14	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Chlorobenzene	<7.7		54	7.7	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Chloroethane	<23		110	23	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Chloroform	<11		54	11	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Chloromethane	<25		110	25	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
cis-1,2-Dichloroethene	<6.6		54	6.6	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
cis-1,3-Dichloropropene	<9.6		54	9.6	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Dibromomethane	<26		110	26	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Dichlorodifluoromethane	<28		110	28	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Ethylbenzene	<6.8		13	6.8	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Isopropyl ether	<7.9		110	7.9	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Isopropylbenzene	<13		110	13	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Methyl tert-butyl ether	<23		110	23	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Methylene Chloride	<37		270	37	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Naphthalene	<27		110	27	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
n-Butylbenzene	<6.9		54	6.9	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
N-Propylbenzene	<9.4		110	9.4	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50

Client Sample ID: V-2 20'

Lab Sample ID: 500-64845-1

Date Collected: 10/10/13 13:00
Matrix: Solid
Date Received: 10/12/13 09:00
Percent Solids: 96.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<9.9		110	9.9	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
sec-Butylbenzene	<8.3		54	8.3	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Styrene	<5.3		54	5.3	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
tert-Butylbenzene	<7.3		54	7.3	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Tetrachloroethene	**5600**		54	9.0	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Toluene	<6.2		13	6.2	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
trans-1,2-Dichloroethene	<13		54	13	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
trans-1,3-Dichloropropene	<11		54	11	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Trichloroethene	<10		27	10	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Trichlorofluoromethane	<22		110	22	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Vinyl chloride	<5.6		13	5.6	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50
Xylenes, Total	<3.7		27	3.7	ug/Kg	☼	10/10/13 13:00	10/16/13 06:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*	*10/10/13 13:00*	*10/16/13 06:55*	*50*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*	*10/10/13 13:00*	*10/16/13 06:55*	*50*
Dibromofluoromethane	*87*		*75 - 120*	*10/10/13 13:00*	*10/16/13 06:55*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*10/10/13 13:00*	*10/16/13 06:55*	*50*

Client Sample ID: V-3 20'

Lab Sample ID: 500-64845-2

Date Collected: 10/10/13 12:15
Matrix: Solid
Date Received: 10/12/13 09:00
Percent Solids: 96.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<18		100	18	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,1,1-Trichloroethane	<11		52	11	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,1,2,2-Tetrachloroethane	<12		52	12	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,1,2-Trichloroethane	<15		52	15	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,1-Dichloroethane	<9.7		52	9.7	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,1-Dichloroethene	<16		52	16	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,1-Dichloropropene	<18		52	18	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,2,3-Trichloropropane	<30		100	30	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,2,4-Trichlorobenzene	<20		100	20	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,2-Dibromo-3-Chloropropane	<46		100	46	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,2-Dibromoethane	<16		100	16	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,2-Dichlorobenzene	<11		100	11	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,2-Dichloroethane	<15		52	15	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,2-Dichloropropane	<10		52	10	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,3,5-Trimethylbenzene	<11		100	11	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,3-Dichloropropane	<7.0		52	7.0	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
1,4-Dichlorobenzene	<9.1		100	9.1	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
2,2-Dichloropropane	<17		52	17	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
2-Butanone (MEK)	<77		260	77	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
2-Chlorotoluene	<11		52	11	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
4-Chlorotoluene	<10		52	10	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Benzene	<3.9		13	3.9	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50

Client Sample ID: V-3 20'

Date Collected: 10/10/13 12:15
Date Received: 10/12/13 09:00

Lab Sample ID: 500-64845-2

Matrix: Solid
Percent Solids: 96.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<22		100	22	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Bromochloromethane	<20		100	20	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Bromodichloromethane	<18		100	18	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Bromoform	<23		100	23	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Bromomethane	<36		100	36	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Carbon tetrachloride	<13		52	13	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Chlorobenzene	<7.5		52	7.5	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Chloroethane	<23		100	23	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Chloroform	<11		52	11	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Chloromethane	<24		100	24	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
cis-1,2-Dichloroethene	<6.4		52	6.4	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
cis-1,3-Dichloropropene	<9.3		52	9.3	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Dibromochloromethane	<18		100	18	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Dibromomethane	<25		100	25	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Dichlorodifluoromethane	<27		100	27	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Ethylbenzene	<6.6		13	6.6	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Hexachlorobutadiene	<18		100	18	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Isopropyl ether	<7.7		100	7.7	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Isopropylbenzene	<13		100	13	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Methyl tert-butyl ether	<23		100	23	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Methylene Chloride	<36		260	36	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Naphthalene	<26		100	26	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
n-Butylbenzene	<6.8		52	6.8	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
N-Propylbenzene	<9.2		100	9.2	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
p-Isopropyltoluene	<9.7		100	9.7	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
sec-Butylbenzene	<8.1		52	8.1	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Styrene	<5.2		52	5.2	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
tert-Butylbenzene	<7.1		52	7.1	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Tetrachloroethene	**2000**		52	8.7	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Toluene	<6.0		13	6.0	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
trans-1,2-Dichloroethene	<13		52	13	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
trans-1,3-Dichloropropene	<11		52	11	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Trichloroethene	**20**	J	26	9.7	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Trichlorofluoromethane	<22		100	22	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Vinyl chloride	<5.4		13	5.4	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50
Xylenes, Total	<3.6		26	3.6	ug/Kg	☼	10/10/13 12:15	10/16/13 07:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 125*	*10/10/13 12:15*	*10/16/13 07:20*	*50*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*	*10/10/13 12:15*	*10/16/13 07:20*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*10/10/13 12:15*	*10/16/13 07:20*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*10/10/13 12:15*	*10/16/13 07:20*	*50*

Client Sample ID: V-4 40'

Date Collected: 10/10/13 09:00
Date Received: 10/12/13 09:00

Lab Sample ID: 500-64845-3

Matrix: Solid
Percent Solids: 96.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<18		100	18	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50

Client Sample ID: V-4 40'
Date Collected: 10/10/13 09:00
Date Received: 10/12/13 09:00

Lab Sample ID: 500-64845-3
Matrix: Solid
Percent Solids: 96.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10		51	10	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,1,2,2-Tetrachloroethane	<12		51	12	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,1,2-Trichloroethane	<14		51	14	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,1-Dichloroethane	<9.5		51	9.5	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,1-Dichloroethene	<16		51	16	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,1-Dichloropropene	<18		51	18	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,2,3-Trichloropropane	<30		100	30	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,2-Dibromo-3-Chloropropane	<45		100	45	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,2-Dibromoethane	<16		100	16	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,2-Dichlorobenzene	<11		100	11	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,2-Dichloroethane	<15		51	15	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,2-Dichloropropane	<10		51	10	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,3,5-Trimethylbenzene	<11		100	11	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,3-Dichloropropane	<6.9		51	6.9	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
1,4-Dichlorobenzene	<9.0		100	9.0	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
2,2-Dichloropropane	<16		51	16	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
2-Butanone (MEK)	<76		260	76	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
2-Chlorotoluene	<11		51	11	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
4-Chlorotoluene	<10		51	10	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Benzene	<3.8		13	3.8	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Bromobenzene	<22		100	22	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Bromochloromethane	<19		100	19	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Bromodichloromethane	<17		100	17	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Bromoform	<23		100	23	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Bromomethane	<35		100	35	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Carbon tetrachloride	<13		51	13	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Chlorobenzene	<7.4		51	7.4	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Chloroethane	<22		100	22	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Chloroform	<11		51	11	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Chloromethane	<24		100	24	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
cis-1,2-Dichloroethene	<6.3		51	6.3	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
cis-1,3-Dichloropropene	<9.2		51	9.2	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Dibromochloromethane	<18		100	18	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Dibromomethane	<25		100	25	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Dichlorodifluoromethane	<26		100	26	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Ethylbenzene	<6.5		13	6.5	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Hexachlorobutadiene	<18		100	18	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Isopropyl ether	<7.6		100	7.6	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Isopropylbenzene	<13		100	13	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Methyl tert-butyl ether	<22		100	22	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Methylene Chloride	<35		260	35	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Naphthalene	<25		100	25	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
n-Butylbenzene	<6.6		51	6.6	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
N-Propylbenzene	<9.0		100	9.0	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
p-Isopropyltoluene	<9.5		100	9.5	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50

Client Sample ID: V-4 40'

Lab Sample ID: 500-64845-3

Date Collected: 10/10/13 09:00
Matrix: Solid
Date Received: 10/12/13 09:00
Percent Solids: 96.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<7.9		51	7.9	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Styrene	<5.1		51	5.1	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
tert-Butylbenzene	<7.0		51	7.0	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Tetrachloroethene	27	J	51	8.6	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Toluene	<5.9		13	5.9	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
trans-1,2-Dichloroethene	<13		51	13	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
trans-1,3-Dichloropropene	<11		51	11	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Trichloroethene	<9.6		26	9.6	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Trichlorofluoromethane	<21		100	21	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Vinyl chloride	<5.4		13	5.4	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50
Xylenes, Total	<3.5		26	3.5	ug/Kg	☼	10/10/13 09:00	10/16/13 07:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*	*10/10/13 09:00*	*10/16/13 07:44*	*50*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*	*10/10/13 09:00*	*10/16/13 07:44*	*50*
Dibromofluoromethane	*93*		*75 - 120*	*10/10/13 09:00*	*10/16/13 07:44*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*10/10/13 09:00*	*10/16/13 07:44*	*50*

Client Sample ID: V-5 20'

Lab Sample ID: 500-64845-4

Date Collected: 10/10/13 10:30
Matrix: Solid
Date Received: 10/12/13 09:00
Percent Solids: 96.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		99	17	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,1,1-Trichloroethane	<9.9		49	9.9	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,1,2,2-Tetrachloroethane	<12		49	12	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,1,2-Trichloroethane	<14		49	14	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,1-Dichloroethane	<9.1		49	9.1	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,1-Dichloroethene	<15		49	15	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,1-Dichloropropene	<17		49	17	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,2,3-Trichlorobenzene	<17		99	17	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,2,3-Trichloropropane	<28		99	28	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,2,4-Trichlorobenzene	<19		99	19	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,2,4-Trimethylbenzene	<10		99	10	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,2-Dibromo-3-Chloropropane	<43		99	43	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,2-Dibromoethane	<16		99	16	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,2-Dichlorobenzene	<10		99	10	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,2-Dichloroethane	<14		49	14	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,2-Dichloropropane	<9.7		49	9.7	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,3,5-Trimethylbenzene	<10		99	10	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,3-Dichlorobenzene	<13		99	13	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,3-Dichloropropane	<6.6		49	6.6	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
1,4-Dichlorobenzene	<8.6		99	8.6	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
2,2-Dichloropropane	<16		49	16	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
2-Butanone (MEK)	<73		250	73	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
2-Chlorotoluene	<10		49	10	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
4-Chlorotoluene	<9.7		49	9.7	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Benzene	<3.7		12	3.7	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Bromobenzene	<21		99	21	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50

Client Sample ID: V-5 20'

Lab Sample ID: 500-64845-4

Date Collected: 10/10/13 10:30
Matrix: Solid
Date Received: 10/12/13 09:00
Percent Solids: 96.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<19		99	19	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Bromodichloromethane	<17		99	17	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Bromoform	<22		99	22	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Bromomethane	<34		99	34	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Carbon tetrachloride	<13		49	13	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Chlorobenzene	<7.1		49	7.1	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Chloroethane	<21		99	21	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Chloroform	<10		49	10	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Chloromethane	<23		99	23	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
cis-1,2-Dichloroethene	<6.1		49	6.1	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
cis-1,3-Dichloropropene	<8.8		49	8.8	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Dibromochloromethane	<17		99	17	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Dibromomethane	<24		99	24	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Dichlorodifluoromethane	<25		99	25	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Ethylbenzene	<6.2		12	6.2	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Hexachlorobutadiene	<17		99	17	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Isopropyl ether	<7.3		99	7.3	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Isopropylbenzene	<12		99	12	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Methyl tert-butyl ether	<21		99	21	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Methylene Chloride	<34		250	34	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Naphthalene	<24		99	24	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
n-Butylbenzene	<6.4		49	6.4	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
N-Propylbenzene	<8.6		99	8.6	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
p-Isopropyltoluene	<9.1		99	9.1	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
sec-Butylbenzene	<7.6		49	7.6	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Styrene	<4.9		49	4.9	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
tert-Butylbenzene	<6.7		49	6.7	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Tetrachloroethene	**29**	**J**	49	8.2	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Toluene	<5.7		12	5.7	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
trans-1,2-Dichloroethene	<12		49	12	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
trans-1,3-Dichloropropene	<10		49	10	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Trichloroethene	<9.2		25	9.2	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Trichlorofluoromethane	<20		99	20	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Vinyl chloride	<5.1		12	5.1	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50
Xylenes, Total	<3.4		25	3.4	ug/Kg	☼	10/10/13 10:30	10/16/13 08:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 125*	*10/10/13 10:30*	*10/16/13 08:09*	*50*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*	*10/10/13 10:30*	*10/16/13 08:09*	*50*
Dibromofluoromethane	*91*		*75 - 120*	*10/10/13 10:30*	*10/16/13 08:09*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*10/10/13 10:30*	*10/16/13 08:09*	*50*

Client Sample ID: Trip Blank

Lab Sample ID: 500-64845-5

Date Collected: 10/10/13 00:00
Matrix: Solid
Date Received: 10/12/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		10/10/13 00:00	10/16/13 02:53	50

Client Sample ID: Trip Blank
Date Collected: 10/10/13 00:00
Date Received: 10/12/13 09:00

Lab Sample ID: 500-64845-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,1-Dichloroethene	<15		50	15	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,1-Dichloropropene	<17		50	17	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,2-Dibromoethane	<16		100	16	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,2-Dichloroethane	<14		50	14	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
2,2-Dichloropropane	<16		50	16	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
2-Butanone (MEK)	<74		250	74	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
2-Chlorotoluene	<10		50	10	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Benzene	<3.7		13	3.7	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Bromobenzene	<21		100	21	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Bromochloromethane	<19		100	19	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Bromodichloromethane	<17		100	17	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Bromoform	<22		100	22	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Bromomethane	<34		100	34	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Carbon tetrachloride	<13		50	13	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Chloroethane	<22		100	22	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Chloroform	<10		50	10	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Chloromethane	<23		100	23	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Dibromochloromethane	<17		100	17	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Dibromomethane	<24		100	24	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Hexachlorobutadiene	<17		100	17	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Isopropylbenzene	<13		100	13	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Methylene Chloride	<34		250	34	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Naphthalene	<25		100	25	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		10/10/13 00:00	10/16/13 02:53	50

Client Sample ID: Trip Blank
Date Collected: 10/10/13 00:00
Date Received: 10/12/13 09:00

Lab Sample ID: 500-64845-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<4.9		50	4.9	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Toluene	<5.8		13	5.8	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Trichloroethene	<9.3		25	9.3	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Trichlorofluoromethane	<21		100	21	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		10/10/13 00:00	10/16/13 02:53	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		10/10/13 00:00	10/16/13 02:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*	*10/10/13 00:00*	*10/16/13 02:53*	*50*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*	*10/10/13 00:00*	*10/16/13 02:53*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*10/10/13 00:00*	*10/16/13 02:53*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*10/10/13 00:00*	*10/16/13 02:53*	*50*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 206776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-64845-1	V-2 20'	Total/NA	Solid	5035	
500-64845-2	V-3 20'	Total/NA	Solid	5035	
500-64845-3	V-4 40'	Total/NA	Solid	5035	
500-64845-4	V-5 20'	Total/NA	Solid	5035	
500-64845-4 MS	V-5 20'	Total/NA	Solid	5035	
500-64845-4 MSD	V-5 20'	Total/NA	Solid	5035	
500-64845-5	Trip Blank	Total/NA	Solid	5035	
LB3 500-206776/14-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-206776/15-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 207097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-64845-1	V-2 20'	Total/NA	Solid	8260B	206776
500-64845-2	V-3 20'	Total/NA	Solid	8260B	206776
500-64845-3	V-4 40'	Total/NA	Solid	8260B	206776
500-64845-4	V-5 20'	Total/NA	Solid	8260B	206776
500-64845-4 MS	V-5 20'	Total/NA	Solid	8260B	206776
500-64845-4 MSD	V-5 20'	Total/NA	Solid	8260B	206776
500-64845-5	Trip Blank	Total/NA	Solid	8260B	206776
LB3 500-206776/14-A LB3	Method Blank	Total/NA	Solid	8260B	206776
LCS 500-206776/15-A	Lab Control Sample	Total/NA	Solid	8260B	206776
LCS 500-207097/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-207097/8	Method Blank	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 206744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-64845-1	V-2 20'	Total/NA	Solid	Moisture	
500-64845-2	V-3 20'	Total/NA	Solid	Moisture	
500-64845-3	V-4 40'	Total/NA	Solid	Moisture	
500-64845-4	V-5 20'	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Cedar Corporation
Project/Site: Village Cleaners 4610

TestAmerica Job ID: 500-64845-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-64845-1	V-2 20'	92	99	87	95
500-64845-2	V-3 20'	89	97	89	94
500-64845-3	V-4 40'	92	99	93	94
500-64845-4	V-5 20'	90	98	91	95
500-64845-4 MS	V-5 20'	91	98	94	96
500-64845-4 MSD	V-5 20'	91	98	98	92
500-64845-5	Trip Blank	91	96	89	95
LB3 500-206776/14-A LB3	Method Blank	93	96	90	94
LCS 500-206776/15-A	Lab Control Sample	91	99	89	98
LCS 500-207097/4	Lab Control Sample	93	94	93	97
MB 500-207097/8	Method Blank	91	99	94	93

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-206776/14-A LB3
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206776

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,1-Dichloroethene	<15		50	15	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,1-Dichloropropene	<17		50	17	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,2-Dibromoethane	<16		100	16	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,2-Dichloroethane	<14		50	14	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
2,2-Dichloropropane	<16		50	16	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
2-Butanone (MEK)	<74		250	74	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
2-Chlorotoluene	<10		50	10	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Benzene	<3.7		13	3.7	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Bromobenzene	<21		100	21	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Bromochloromethane	<19		100	19	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Bromodichloromethane	<17		100	17	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Bromoform	<22		100	22	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Bromomethane	<34		100	34	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Carbon tetrachloride	<13		50	13	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Chloroethane	<22		100	22	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Chloroform	<10		50	10	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Chloromethane	<23		100	23	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Dibromochloromethane	<17		100	17	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Dibromomethane	<24		100	24	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Hexachlorobutadiene	<17		100	17	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Isopropylbenzene	<13		100	13	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Methylene Chloride	<34		250	34	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Naphthalene	<25		100	25	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		10/12/13 18:30	10/16/13 02:28	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-206776/14-A LB3
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206776

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<8.8		100	8.8	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Styrene	<4.9		50	4.9	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Toluene	<5.8		13	5.8	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Trichloroethene	<9.3		25	9.3	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Trichlorofluoromethane	<21		100	21	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		10/12/13 18:30	10/16/13 02:28	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		10/12/13 18:30	10/16/13 02:28	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*	*10/12/13 18:30*	*10/16/13 02:28*	*50*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*	*10/12/13 18:30*	*10/16/13 02:28*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*10/12/13 18:30*	*10/16/13 02:28*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*10/12/13 18:30*	*10/16/13 02:28*	*50*

Lab Sample ID: LCS 500-206776/15-A
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2370		ug/Kg		95	75 - 120
1,1,1-Trichloroethane	2500	2160		ug/Kg		86	70 - 123
1,1,2,2-Tetrachloroethane	2500	2530		ug/Kg		101	70 - 128
1,1,2-Trichloroethane	2500	2650		ug/Kg		106	69 - 120
1,1-Dichloroethane	2500	2460		ug/Kg		98	68 - 121
1,1-Dichloroethene	2500	2250		ug/Kg		90	58 - 122
1,1-Dichloropropene	2500	2420		ug/Kg		97	70 - 120
1,2,3-Trichlorobenzene	2500	2630		ug/Kg		105	56 - 137
1,2,3-Trichloropropane	2500	2290		ug/Kg		91	70 - 120
1,2,4-Trichlorobenzene	2500	2600		ug/Kg		104	65 - 121
1,2,4-Trimethylbenzene	2500	2590		ug/Kg		104	75 - 121
1,2-Dibromo-3-Chloropropane	2500	2260		ug/Kg		90	60 - 121
1,2-Dibromoethane	2500	2540		ug/Kg		102	70 - 120
1,2-Dichlorobenzene	2500	2590		ug/Kg		103	75 - 120
1,2-Dichloroethane	2500	2420		ug/Kg		97	69 - 120
1,2-Dichloropropane	2500	2720		ug/Kg		109	70 - 120
1,3,5-Trimethylbenzene	2500	2620		ug/Kg		105	75 - 123
1,3-Dichlorobenzene	2500	2550		ug/Kg		102	70 - 120
1,3-Dichloropropane	2500	2640		ug/Kg		106	70 - 120
1,4-Dichlorobenzene	2500	2580		ug/Kg		103	75 - 120
2,2-Dichloropropane	2500	1940		ug/Kg		78	67 - 125
2-Butanone (MEK)	2500	2240		ug/Kg		90	54 - 138
2-Chlorotoluene	2500	2530		ug/Kg		101	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-206776/15-A
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	2500	2560		ug/Kg		103	70 - 120
Benzene	2500	2510		ug/Kg		100	70 - 120
Bromobenzene	2500	2750		ug/Kg		110	70 - 120
Bromochloromethane	2500	2420		ug/Kg		97	67 - 122
Bromodichloromethane	2500	2280		ug/Kg		91	70 - 120
Bromoform	2500	2130		ug/Kg		85	70 - 125
Bromomethane	2500	2010		ug/Kg		81	50 - 150
Carbon tetrachloride	2500	2070		ug/Kg		83	70 - 125
Chlorobenzene	2500	2500		ug/Kg		100	70 - 120
Chloroethane	2500	1780		ug/Kg		71	50 - 150
Chloroform	2500	2330		ug/Kg		93	70 - 120
Chloromethane	2500	1950		ug/Kg		78	50 - 134
cis-1,2-Dichloroethene	2500	2480		ug/Kg		99	70 - 120
cis-1,3-Dichloropropene	2500	2470		ug/Kg		99	70 - 120
Dibromochloromethane	2500	2280		ug/Kg		91	70 - 120
Dibromomethane	2500	2520		ug/Kg		101	70 - 120
Dichlorodifluoromethane	2500	1170		ug/Kg		47	40 - 140
Ethylbenzene	2500	2440		ug/Kg		98	75 - 120
Hexachlorobutadiene	2500	2720		ug/Kg		109	65 - 135
Isopropylbenzene	2500	2620		ug/Kg		105	70 - 120
Methyl tert-butyl ether	2500	2410		ug/Kg		96	58 - 122
Methylene Chloride	2500	2480		ug/Kg		99	65 - 125
Naphthalene	2500	2760		ug/Kg		110	55 - 132
n-Butylbenzene	2500	2540		ug/Kg		102	75 - 120
N-Propylbenzene	2500	2600		ug/Kg		104	70 - 120
p-Isopropyltoluene	2500	2580		ug/Kg		103	70 - 120
sec-Butylbenzene	2500	2630		ug/Kg		105	70 - 120
Styrene	2500	2560		ug/Kg		102	75 - 120
tert-Butylbenzene	2500	2630		ug/Kg		105	70 - 120
Tetrachloroethene	2500	2500		ug/Kg		100	70 - 123
Toluene	2500	2690		ug/Kg		108	70 - 120
trans-1,2-Dichloroethene	2500	2350		ug/Kg		94	70 - 124
trans-1,3-Dichloropropene	2500	2380		ug/Kg		95	70 - 120
Trichloroethene	2500	2440		ug/Kg		98	70 - 120
Trichlorofluoromethane	2500	1900		ug/Kg		76	63 - 134
Vinyl chloride	2500	1870		ug/Kg		75	62 - 138
Xylenes, Total	5000	4840		ug/Kg		97	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane	*89*		*75 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-64845-4 MS
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: V-5 20'
Prep Type: Total/NA
Prep Batch: 206776

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<17		2470	2660		ug/Kg	☼	108	75 - 120
1,1,1-Trichloroethane	<9.9		2470	2200		ug/Kg	☼	89	70 - 123
1,1,2,2-Tetrachloroethane	<12		2470	3140		ug/Kg	☼	127	70 - 128
1,1,2-Trichloroethane	<14		2470	2990	F	ug/Kg	☼	121	69 - 120
1,1-Dichloroethane	<9.1		2470	2580		ug/Kg	☼	104	68 - 121
1,1-Dichloroethene	<15		2470	2340		ug/Kg	☼	95	58 - 122
1,1-Dichloropropene	<17		2470	2450		ug/Kg	☼	99	70 - 120
1,2,3-Trichlorobenzene	<17		2470	2790		ug/Kg	☼	113	56 - 137
1,2,3-Trichloropropane	<28		2470	2890		ug/Kg	☼	117	70 - 120
1,2,4-Trichlorobenzene	<19		2470	2680		ug/Kg	☼	109	65 - 121
1,2,4-Trimethylbenzene	<10		2470	2840		ug/Kg	☼	115	75 - 121
1,2-Dibromo-3-Chloropropane	<43		2470	2720		ug/Kg	☼	110	60 - 121
1,2-Dibromoethane	<16		2470	2840		ug/Kg	☼	115	70 - 120
1,2-Dichlorobenzene	<10		2470	2960		ug/Kg	☼	120	75 - 120
1,2-Dichloroethane	<14		2470	2590		ug/Kg	☼	105	69 - 120
1,2-Dichloropropane	<9.7		2470	2770		ug/Kg	☼	112	70 - 120
1,3,5-Trimethylbenzene	<10		2470	2850		ug/Kg	☼	115	75 - 123
1,3-Dichlorobenzene	<13		2470	2800		ug/Kg	☼	113	70 - 120
1,3-Dichloropropane	<6.6		2470	2910		ug/Kg	☼	118	70 - 120
1,4-Dichlorobenzene	<8.6		2470	2900		ug/Kg	☼	117	75 - 120
2,2-Dichloropropane	<16		2470	1930		ug/Kg	☼	78	67 - 125
2-Butanone (MEK)	<73		2470	2570		ug/Kg	☼	104	54 - 138
2-Chlorotoluene	<10		2470	2820		ug/Kg	☼	114	70 - 120
4-Chlorotoluene	<9.7		2470	2840		ug/Kg	☼	115	70 - 120
Benzene	<3.7		2470	2550		ug/Kg	☼	103	70 - 120
Bromobenzene	<21		2470	3170	F	ug/Kg	☼	128	70 - 120
Bromochloromethane	<19		2470	2470		ug/Kg	☼	100	67 - 122
Bromodichloromethane	<17		2470	2450		ug/Kg	☼	99	70 - 120
Bromoform	<22		2470	2650		ug/Kg	☼	108	70 - 125
Bromomethane	<34		2470	2350		ug/Kg	☼	95	50 - 150
Carbon tetrachloride	<13		2470	2130		ug/Kg	☼	86	70 - 125
Chlorobenzene	<7.1		2470	2740		ug/Kg	☼	111	70 - 120
Chloroethane	<21		2470	2080		ug/Kg	☼	84	50 - 150
Chloroform	<10		2470	2470		ug/Kg	☼	100	70 - 120
Chloromethane	<23		2470	2740		ug/Kg	☼	111	50 - 134
cis-1,2-Dichloroethene	<6.1		2470	2610		ug/Kg	☼	106	70 - 120
cis-1,3-Dichloropropene	<8.8		2470	2520		ug/Kg	☼	102	70 - 120
Dibromochloromethane	<17		2470	2520		ug/Kg	☼	102	70 - 120
Dibromomethane	<24		2470	2690		ug/Kg	☼	109	70 - 120
Dichlorodifluoromethane	<25		2470	2200		ug/Kg	☼	89	40 - 140
Ethylbenzene	<6.2		2470	2640		ug/Kg	☼	107	75 - 120
Hexachlorobutadiene	<17		2470	2600		ug/Kg	☼	105	65 - 135
Isopropylbenzene	<12		2470	2850		ug/Kg	☼	115	70 - 120
Methyl tert-butyl ether	<21		2470	2540		ug/Kg	☼	103	58 - 122
Methylene Chloride	<34		2470	2560		ug/Kg	☼	104	65 - 125
Naphthalene	<24		2470	3140		ug/Kg	☼	127	55 - 132
n-Butylbenzene	<6.4		2470	2610		ug/Kg	☼	106	75 - 120
N-Propylbenzene	<8.6		2470	2830		ug/Kg	☼	115	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-64845-4 MS
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: V-5 20'
Prep Type: Total/NA
Prep Batch: 206776

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	<9.1		2470	2760		ug/Kg	☼	112	70 - 120
sec-Butylbenzene	<7.6		2470	2820		ug/Kg	☼	114	70 - 120
Styrene	<4.9		2470	2890		ug/Kg	☼	117	75 - 120
tert-Butylbenzene	<6.7		2470	2850		ug/Kg	☼	115	70 - 120
Tetrachloroethene	29	J	2470	2530		ug/Kg	☼	101	70 - 123
Toluene	<5.7		2470	2720		ug/Kg	☼	110	70 - 120
trans-1,2-Dichloroethene	<12		2470	2490		ug/Kg	☼	101	70 - 124
trans-1,3-Dichloropropene	<10		2470	2580		ug/Kg	☼	104	70 - 120
Trichloroethene	<9.2		2470	2470		ug/Kg	☼	100	70 - 120
Trichlorofluoromethane	<20		2470	2190		ug/Kg	☼	89	63 - 134
Vinyl chloride	<5.1		2470	2420		ug/Kg	☼	98	62 - 138
Xylenes, Total	<3.4		4940	5280		ug/Kg	☼	107	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*
Dibromofluoromethane	*94*		*75 - 120*
Toluene-d8 (Surr)	*96*		*75 - 120*

Lab Sample ID: 500-64845-4 MSD
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: V-5 20'
Prep Type: Total/NA
Prep Batch: 206776

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<17		2470	2210		ug/Kg	☼	89	75 - 120	19	30
1,1,1-Trichloroethane	<9.9		2470	2170		ug/Kg	☼	88	70 - 123	1	30
1,1,2,2-Tetrachloroethane	<12		2470	2640		ug/Kg	☼	107	70 - 128	17	30
1,1,2-Trichloroethane	<14		2470	2510		ug/Kg	☼	102	69 - 120	18	30
1,1-Dichloroethane	<9.1		2470	2550		ug/Kg	☼	103	68 - 121	1	30
1,1-Dichloroethene	<15		2470	2400		ug/Kg	☼	97	58 - 122	2	30
1,1-Dichloropropene	<17		2470	2300		ug/Kg	☼	93	70 - 120	6	30
1,2,3-Trichlorobenzene	<17		2470	2720		ug/Kg	☼	110	56 - 137	2	30
1,2,3-Trichloropropane	<28		2470	2470		ug/Kg	☼	100	70 - 120	16	30
1,2,4-Trichlorobenzene	<19		2470	2520		ug/Kg	☼	102	65 - 121	6	30
1,2,4-Trimethylbenzene	<10		2470	2550		ug/Kg	☼	103	75 - 121	11	30
1,2-Dibromo-3-Chloropropane	<43		2470	2240		ug/Kg	☼	91	60 - 121	19	30
1,2-Dibromoethane	<16		2470	2470		ug/Kg	☼	100	70 - 120	14	30
1,2-Dichlorobenzene	<10		2470	2630		ug/Kg	☼	107	75 - 120	12	30
1,2-Dichloroethane	<14		2470	2370		ug/Kg	☼	96	69 - 120	9	30
1,2-Dichloropropane	<9.7		2470	2600		ug/Kg	☼	105	70 - 120	6	30
1,3,5-Trimethylbenzene	<10		2470	2540		ug/Kg	☼	103	75 - 123	12	30
1,3-Dichlorobenzene	<13		2470	2520		ug/Kg	☼	102	70 - 120	11	30
1,3-Dichloropropane	<6.6		2470	2580		ug/Kg	☼	105	70 - 120	12	30
1,4-Dichlorobenzene	<8.6		2470	2570		ug/Kg	☼	104	75 - 120	12	30
2,2-Dichloropropane	<16		2470	1920		ug/Kg	☼	78	67 - 125	1	30
2-Butanone (MEK)	<73		2470	2520		ug/Kg	☼	102	54 - 138	2	30
2-Chlorotoluene	<10		2470	2530		ug/Kg	☼	103	70 - 120	11	30
4-Chlorotoluene	<9.7		2470	2540		ug/Kg	☼	103	70 - 120	11	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-64845-4 MSD
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: V-5 20'
Prep Type: Total/NA
Prep Batch: 206776

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<3.7		2470	2470		ug/Kg	☼	100	70 - 120	3	30
Bromobenzene	<21		2470	2770		ug/Kg	☼	112	70 - 120	14	30
Bromochloromethane	<19		2470	2390		ug/Kg	☼	97	67 - 122	4	30
Bromodichloromethane	<17		2470	2240		ug/Kg	☼	91	70 - 120	9	30
Bromoform	<22		2470	2160		ug/Kg	☼	88	70 - 125	20	30
Bromomethane	<34		2470	2550		ug/Kg	☼	103	50 - 150	9	30
Carbon tetrachloride	<13		2470	2100		ug/Kg	☼	85	70 - 125	1	30
Chlorobenzene	<7.1		2470	2450		ug/Kg	☼	99	70 - 120	11	30
Chloroethane	<21		2470	2210		ug/Kg	☼	89	50 - 150	6	30
Chloroform	<10		2470	2340		ug/Kg	☼	95	70 - 120	5	30
Chloromethane	<23		2470	2930		ug/Kg	☼	119	50 - 134	7	30
cis-1,2-Dichloroethene	<6.1		2470	2560		ug/Kg	☼	104	70 - 120	2	30
cis-1,3-Dichloropropene	<8.8		2470	2150		ug/Kg	☼	87	70 - 120	16	30
Dibromochloromethane	<17		2470	2220		ug/Kg	☼	90	70 - 120	13	30
Dibromomethane	<24		2470	2450		ug/Kg	☼	99	70 - 120	9	30
Dichlorodifluoromethane	<25		2470	2330		ug/Kg	☼	94	40 - 140	5	30
Ethylbenzene	<6.2		2470	2360		ug/Kg	☼	95	75 - 120	11	30
Hexachlorobutadiene	<17		2470	2500		ug/Kg	☼	101	65 - 135	4	30
Isopropylbenzene	<12		2470	2540		ug/Kg	☼	103	70 - 120	11	30
Methyl tert-butyl ether	<21		2470	2460		ug/Kg	☼	100	58 - 122	3	30
Methylene Chloride	<34		2470	2520		ug/Kg	☼	102	65 - 125	2	30
Naphthalene	<24		2470	2920		ug/Kg	☼	118	55 - 132	7	30
n-Butylbenzene	<6.4		2470	2390		ug/Kg	☼	97	75 - 120	9	30
N-Propylbenzene	<8.6		2470	2550		ug/Kg	☼	103	70 - 120	11	30
p-Isopropyltoluene	<9.1		2470	2520		ug/Kg	☼	102	70 - 120	9	30
sec-Butylbenzene	<7.6		2470	2570		ug/Kg	☼	104	70 - 120	9	30
Styrene	<4.9		2470	2550		ug/Kg	☼	103	75 - 120	13	30
tert-Butylbenzene	<6.7		2470	2510		ug/Kg	☼	102	70 - 120	13	30
Tetrachloroethene	29	J	2470	2280		ug/Kg	☼	91	70 - 123	10	30
Toluene	<5.7		2470	2430		ug/Kg	☼	99	70 - 120	11	30
trans-1,2-Dichloroethene	<12		2470	2470		ug/Kg	☼	100	70 - 124	1	30
trans-1,3-Dichloropropene	<10		2470	2220		ug/Kg	☼	90	70 - 120	15	30
Trichloroethene	<9.2		2470	2270		ug/Kg	☼	92	70 - 120	9	30
Trichlorofluoromethane	<20		2470	2290		ug/Kg	☼	93	63 - 134	5	30
Vinyl chloride	<5.1		2470	2620		ug/Kg	☼	106	62 - 138	8	30
Xylenes, Total	<3.4		4940	4690		ug/Kg	☼	95	70 - 120	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*92*		*75 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-207097/8
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			10/16/13 01:38	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			10/16/13 01:38	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			10/16/13 01:38	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			10/16/13 01:38	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			10/16/13 01:38	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			10/16/13 01:38	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			10/16/13 01:38	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			10/16/13 01:38	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			10/16/13 01:38	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			10/16/13 01:38	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/16/13 01:38	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			10/16/13 01:38	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			10/16/13 01:38	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			10/16/13 01:38	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			10/16/13 01:38	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			10/16/13 01:38	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/16/13 01:38	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			10/16/13 01:38	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			10/16/13 01:38	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			10/16/13 01:38	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			10/16/13 01:38	1
2-Butanone (MEK)	<1.5		5.0	1.5	ug/Kg			10/16/13 01:38	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			10/16/13 01:38	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			10/16/13 01:38	1
Benzene	<0.074		0.25	0.074	ug/Kg			10/16/13 01:38	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			10/16/13 01:38	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			10/16/13 01:38	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			10/16/13 01:38	1
Bromoform	<0.44		2.0	0.44	ug/Kg			10/16/13 01:38	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			10/16/13 01:38	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			10/16/13 01:38	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			10/16/13 01:38	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			10/16/13 01:38	1
Chloroform	<0.21		1.0	0.21	ug/Kg			10/16/13 01:38	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			10/16/13 01:38	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			10/16/13 01:38	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			10/16/13 01:38	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			10/16/13 01:38	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			10/16/13 01:38	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			10/16/13 01:38	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			10/16/13 01:38	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			10/16/13 01:38	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			10/16/13 01:38	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			10/16/13 01:38	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			10/16/13 01:38	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			10/16/13 01:38	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			10/16/13 01:38	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			10/16/13 01:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-207097/8
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			10/16/13 01:38	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			10/16/13 01:38	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			10/16/13 01:38	1
Styrene	<0.099		1.0	0.099	ug/Kg			10/16/13 01:38	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			10/16/13 01:38	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			10/16/13 01:38	1
Toluene	<0.12		0.25	0.12	ug/Kg			10/16/13 01:38	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			10/16/13 01:38	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			10/16/13 01:38	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			10/16/13 01:38	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			10/16/13 01:38	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			10/16/13 01:38	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			10/16/13 01:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*10/16/13 01:38*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*10/16/13 01:38*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*10/16/13 01:38*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*10/16/13 01:38*	*1*

Lab Sample ID: LCS 500-207097/4
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	46.9		ug/Kg		94	75 - 120
1,1,1-Trichloroethane	50.0	41.8		ug/Kg		84	70 - 123
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/Kg		101	70 - 128
1,1,2-Trichloroethane	50.0	50.6		ug/Kg		101	69 - 120
1,1-Dichloroethane	50.0	49.2		ug/Kg		98	68 - 121
1,1-Dichloroethene	50.0	45.6		ug/Kg		91	58 - 122
1,1-Dichloropropene	50.0	48.4		ug/Kg		97	70 - 120
1,2,3-Trichlorobenzene	50.0	49.1		ug/Kg		98	56 - 137
1,2,3-Trichloropropane	50.0	44.8		ug/Kg		90	70 - 120
1,2,4-Trichlorobenzene	50.0	47.7		ug/Kg		95	65 - 121
1,2,4-Trimethylbenzene	50.0	47.7		ug/Kg		95	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	42.6		ug/Kg		85	60 - 121
1,2-Dibromoethane	50.0	49.1		ug/Kg		98	70 - 120
1,2-Dichlorobenzene	50.0	48.8		ug/Kg		98	75 - 120
1,2-Dichloroethane	50.0	48.3		ug/Kg		97	69 - 120
1,2-Dichloropropane	50.0	50.0		ug/Kg		100	70 - 120
1,3,5-Trimethylbenzene	50.0	47.9		ug/Kg		96	75 - 123
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	70 - 120
1,3-Dichloropropane	50.0	50.3		ug/Kg		101	70 - 120
1,4-Dichlorobenzene	50.0	48.7		ug/Kg		97	75 - 120
2,2-Dichloropropane	50.0	37.0		ug/Kg		74	67 - 125
2-Butanone (MEK)	50.0	45.1		ug/Kg		90	54 - 138
2-Chlorotoluene	50.0	46.9		ug/Kg		94	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-207097/4
Matrix: Solid
Analysis Batch: 207097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	47.7		ug/Kg		95	70 - 120
Benzene	50.0	49.4		ug/Kg		99	70 - 120
Bromobenzene	50.0	51.5		ug/Kg		103	70 - 120
Bromochloromethane	50.0	48.4		ug/Kg		97	67 - 122
Bromodichloromethane	50.0	42.9		ug/Kg		86	70 - 120
Bromoform	50.0	44.7		ug/Kg		89	70 - 125
Bromomethane	50.0	42.4		ug/Kg		85	50 - 150
Carbon tetrachloride	50.0	40.6		ug/Kg		81	70 - 125
Chlorobenzene	50.0	47.8		ug/Kg		96	70 - 120
Chloroethane	50.0	40.4		ug/Kg		81	50 - 150
Chloroform	50.0	46.3		ug/Kg		93	70 - 120
Chloromethane	50.0	52.2		ug/Kg		104	50 - 134
cis-1,2-Dichloroethene	50.0	49.5		ug/Kg		99	70 - 120
cis-1,3-Dichloropropene	50.0	46.0		ug/Kg		92	70 - 120
Dibromochloromethane	50.0	44.4		ug/Kg		89	70 - 120
Dibromomethane	50.0	49.0		ug/Kg		98	70 - 120
Dichlorodifluoromethane	50.0	40.8		ug/Kg		82	40 - 140
Ethylbenzene	50.0	47.9		ug/Kg		96	75 - 120
Hexachlorobutadiene	50.0	44.9		ug/Kg		90	65 - 135
Isopropylbenzene	50.0	48.0		ug/Kg		96	70 - 120
Methyl tert-butyl ether	50.0	48.7		ug/Kg		97	58 - 122
Methylene Chloride	50.0	48.1		ug/Kg		96	65 - 125
Naphthalene	50.0	52.6		ug/Kg		105	55 - 132
n-Butylbenzene	50.0	45.5		ug/Kg		91	75 - 120
N-Propylbenzene	50.0	47.2		ug/Kg		94	70 - 120
p-Isopropyltoluene	50.0	47.1		ug/Kg		94	70 - 120
sec-Butylbenzene	50.0	47.2		ug/Kg		94	70 - 120
Styrene	50.0	51.5		ug/Kg		103	75 - 120
tert-Butylbenzene	50.0	48.7		ug/Kg		97	70 - 120
Tetrachloroethene	50.0	47.2		ug/Kg		94	70 - 123
Toluene	50.0	50.7		ug/Kg		101	70 - 120
trans-1,2-Dichloroethene	50.0	47.0		ug/Kg		94	70 - 124
trans-1,3-Dichloropropene	50.0	44.4		ug/Kg		89	70 - 120
Trichloroethene	50.0	46.7		ug/Kg		93	70 - 120
Trichlorofluoromethane	50.0	40.9		ug/Kg		82	63 - 134
Vinyl chloride	50.0	45.6		ug/Kg		91	62 - 138
Xylenes, Total	100	95.6		ug/Kg		96	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*
Dibromofluoromethane	*93*		*75 - 120*
Toluene-d8 (Surr)	*97*		*75 - 120*

Lab Chronicle

Client: Cedar Corporation
Project/Site: Village Cleaners 4610

TestAmerica Job ID: 500-64845-1

Client Sample ID: V-2 20'

Lab Sample ID: 500-64845-1

Date Collected: 10/10/13 13:00
Matrix: Solid
Date Received: 10/12/13 09:00
Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			206776	10/10/13 13:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	207097	10/16/13 06:55	EMA	TAL CHI
Total/NA	Analysis	Moisture		1	206744	10/12/13 10:13	CMV	TAL CHI

Client Sample ID: V-3 20'

Lab Sample ID: 500-64845-2

Date Collected: 10/10/13 12:15
Matrix: Solid
Date Received: 10/12/13 09:00
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			206776	10/10/13 12:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	207097	10/16/13 07:20	EMA	TAL CHI
Total/NA	Analysis	Moisture		1	206744	10/12/13 10:13	CMV	TAL CHI

Client Sample ID: V-4 40'

Lab Sample ID: 500-64845-3

Date Collected: 10/10/13 09:00
Matrix: Solid
Date Received: 10/12/13 09:00
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			206776	10/10/13 09:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	207097	10/16/13 07:44	EMA	TAL CHI
Total/NA	Analysis	Moisture		1	206744	10/12/13 10:13	CMV	TAL CHI

Client Sample ID: V-5 20'

Lab Sample ID: 500-64845-4

Date Collected: 10/10/13 10:30
Matrix: Solid
Date Received: 10/12/13 09:00
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			206776	10/10/13 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	207097	10/16/13 08:09	EMA	TAL CHI
Total/NA	Analysis	Moisture		1	206744	10/12/13 10:13	CMV	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-64845-5

Date Collected: 10/10/13 00:00
Matrix: Solid
Date Received: 10/12/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			206776	10/10/13 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	207097	10/16/13 02:53	EMA	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Cedar Corporation
Project/Site: Village Cleaners 4610

TestAmerica Job ID: 500-64845-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-14
South Carolina	State Program	4	77001	10-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL T

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.52

500-64845 COC

(optional)

Report To
Contact: Scott McCurdy
Company: Cedar Corp
Address: 604 Wilson Ave
Address: Menomonie, WI 54751
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact: Same
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-64845

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 4.7

Client: Cedar Corp
Client Project #: 4610
Project Name: Village Cleanouts
Project Location/State: Menomonie, WI 54751
Lab Project #:
Sampler: Ryan Schafer
Lab PM: Sadie Fredrick

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs	Comments
1		V-2 20'	10/10/13	1300	2	SO	9	X	
2		V-3 20'		1215					
3		V-4 40'		900					
4		V-5 20'		1030					
5		Trip Blank							added by TA

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Ryan Schafer	Cedar Corp	10/10/13	1700		TA	10/12/13	0900
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FX
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
Wi – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-64845-1

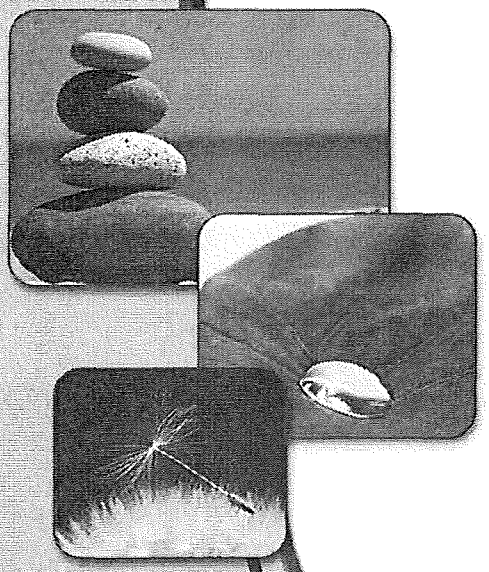
Login Number: 64845

List Number: 1

Creator: Lunt, Jeff T

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	4.7
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-65246-1
Client Project/Site: Village Cleaners - 4610

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Scott McCurdy

Sandie Fredrick

Authorized for release by:
10/29/2013 7:07:36 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-65246-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-65246-1

Comments
No additional comments.

Receipt
The samples were received on 10/19/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for batch 208324 and the matrix spike (-8MS) for sample -8 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS and MS and was not detected in the associated samples; therefore, the data has been reported.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Client Sample ID: EX-1 4' — Lab Sample ID: 500-65246-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	830		58	9.7	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: EX-2 2' — Lab Sample ID: 500-65246-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	600		56	9.3	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: EX-3 2' — Lab Sample ID: 500-65246-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	620		58	9.8	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: EX-4 2' — Lab Sample ID: 500-65246-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	810		57	9.5	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	23	J	28	3.9	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: EX-5 4' — Lab Sample ID: 500-65246-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	92		55	9.2	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: Base — Lab Sample ID: 500-65246-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2200		56	9.3	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	27	J	28	3.8	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: North — Lab Sample ID: 500-65246-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	14000		560	93	ug/Kg	500	☼	8260B	Total/NA
Trichloroethene	27	J	28	10	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	30		28	3.8	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: South — Lab Sample ID: 500-65246-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1100		56	9.4	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	29		28	3.9	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: East — Lab Sample ID: 500-65246-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1400		56	9.3	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	24	J	28	3.8	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: West — Lab Sample ID: 500-65246-10

This Detection Summary does not include radiochemical test results.

Client Sample ID: West (Continued)

Lab Sample ID: 500-65246-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1100		58	9.7	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	24	J	29	4.0	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-65246-11

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-65246-1	EX-1 4'	Solid	10/16/13 11:00	10/19/13 09:15
500-65246-2	EX-2 2'	Solid	10/16/13 11:00	10/19/13 09:15
500-65246-3	EX-3 2'	Solid	10/16/13 11:00	10/19/13 09:15
500-65246-4	EX-4 2'	Solid	10/16/13 11:00	10/19/13 09:15
500-65246-5	EX-5 4'	Solid	10/16/13 11:00	10/19/13 09:15
500-65246-6	Base	Solid	10/16/13 15:30	10/19/13 09:15
500-65246-7	North	Solid	10/16/13 15:30	10/19/13 09:15
500-65246-8	South	Solid	10/16/13 15:30	10/19/13 09:15
500-65246-9	East	Solid	10/16/13 15:30	10/19/13 09:15
500-65246-10	West	Solid	10/16/13 15:30	10/19/13 09:15
500-65246-11	Trip Blank	Solid	10/16/13 15:30	10/19/13 09:15

Client Sample ID: EX-1 4'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-1
Matrix: Solid
Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.3		14	4.3	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Bromobenzene	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Bromochloromethane	<22		120	22	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Bromoform	<26		120	26	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Bromomethane	<40	*	120	40	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
sec-Butylbenzene	<8.9		58	8.9	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
tert-Butylbenzene	<7.9		58	7.9	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Chlorobenzene	<8.3		58	8.3	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Chloroethane	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Chloroform	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Chloromethane	<27		120	27	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
4-Chlorotoluene	<11		58	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Dibromomethane	<28		120	28	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2-Dichloroethane	<17		58	17	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,3-Dichloropropane	<7.8		58	7.8	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Ethylbenzene	<7.3		14	7.3	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Methylene Chloride	<40		290	40	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Naphthalene	<29		120	29	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Styrene	<5.7		58	5.7	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Tetrachloroethene	**830**		58	9.7	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Toluene	<6.7		14	6.7	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50

Client Sample ID: EX-1 4'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-1
Matrix: Solid
Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Trichloroethene	<11		29	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50
Xylenes, Total	<4.0		29	4.0	ug/Kg	☼	10/16/13 11:00	10/24/13 03:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*	*10/16/13 11:00*	*10/24/13 03:27*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:27*	*50*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:27*	*50*
Dibromofluoromethane	*92*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:27*	*50*

Client Sample ID: EX-2 2'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-2
Matrix: Solid
Percent Solids: 94.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.1		14	4.1	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
n-Butylbenzene	<7.2		56	7.2	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
sec-Butylbenzene	<8.6		56	8.6	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
tert-Butylbenzene	<7.6		56	7.6	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Carbon tetrachloride	<14		56	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Chlorobenzene	<8.0		56	8.0	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Chloroform	<11		56	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
2-Chlorotoluene	<12		56	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2-Dibromo-3-Chloropropane	<48		110	48	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,4-Dichlorobenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50

Client Sample ID: EX-2 2'

Lab Sample ID: 500-65246-2

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
cis-1,2-Dichloroethene	<6.8		56	6.8	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
cis-1,3-Dichloropropene	<9.9		56	9.9	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Isopropyl ether	<8.2		110	8.2	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Ethylbenzene	<7.0		14	7.0	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Naphthalene	<27		110	27	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
N-Propylbenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Styrene	<5.5		56	5.5	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Tetrachloroethene	**600**		56	9.3	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Toluene	<6.4		14	6.4	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2,3-Trichlorobenzene	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Trichloroethene	<10		28	10	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Vinyl chloride	<5.8		14	5.8	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50
Xylenes, Total	<3.8		28	3.8	ug/Kg	☼	10/16/13 11:00	10/24/13 03:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*10/16/13 11:00*	*10/24/13 03:52*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:52*	*50*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:52*	*50*
Dibromofluoromethane	*88*		*75 - 120*	*10/16/13 11:00*	*10/24/13 03:52*	*50*

Client Sample ID: EX-3 2'

Lab Sample ID: 500-65246-3

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.3		15	4.3	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Bromobenzene	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Bromochloromethane	<22		120	22	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50

Client Sample ID: EX-3 2'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-3
Matrix: Solid
Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Bromoform	<26		120	26	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Bromomethane	<40	*	120	40	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
sec-Butylbenzene	<9.0		58	9.0	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
tert-Butylbenzene	<8.0		58	8.0	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Chlorobenzene	<8.4		58	8.4	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Chloroethane	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Chloroform	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Chloromethane	<27		120	27	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
4-Chlorotoluene	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2-Dibromo-3-Chloropropane	<51		120	51	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Dibromomethane	<28		120	28	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2-Dichloroethane	<17		58	17	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
cis-1,2-Dichloroethene	<7.2		58	7.2	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
trans-1,2-Dichloroethene	<15		58	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,3-Dichloropropane	<7.8		58	7.8	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Isopropyl ether	<8.6		120	8.6	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Ethylbenzene	<7.4		15	7.4	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Methylene Chloride	<40		290	40	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Naphthalene	<29		120	29	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Styrene	<5.8		58	5.8	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Tetrachloroethene	**620**		58	9.8	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Toluene	<6.7		15	6.7	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50

Client Sample ID: EX-3 2'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-3
Matrix: Solid
Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Trichloroethene	<11		29	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2,3-Trichloropropane	<34		120	34	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Vinyl chloride	<6.1		15	6.1	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50
Xylenes, Total	<4.0		29	4.0	ug/Kg	☼	10/16/13 11:00	10/24/13 04:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*10/16/13 11:00*	*10/24/13 04:16*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:16*	*50*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:16*	*50*
Dibromofluoromethane	*91*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:16*	*50*

Client Sample ID: EX-4 2'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-4
Matrix: Solid
Percent Solids: 93.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.2		14	4.2	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Bromomethane	<39	*	110	39	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
n-Butylbenzene	<7.3		57	7.3	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
sec-Butylbenzene	<8.7		57	8.7	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
tert-Butylbenzene	<7.7		57	7.7	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Carbon tetrachloride	<15		57	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Chlorobenzene	<8.1		57	8.1	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Dibromochloromethane	<20		110	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Chloroethane	<25		110	25	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Chloroform	<12		57	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
2-Chlorotoluene	<12		57	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
4-Chlorotoluene	<11		57	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2-Dichlorobenzene	<12		110	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,3-Dichlorobenzene	<15		110	15	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,4-Dichlorobenzene	<9.9		110	9.9	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1-Dichloroethane	<10		57	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2-Dichloroethane	<16		57	16	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1-Dichloroethene	<17		57	17	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
cis-1,2-Dichloroethene	<7.0		57	7.0	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
trans-1,2-Dichloroethene	<14		57	14	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50

Client Sample ID: EX-4 2'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-4
Matrix: Solid
Percent Solids: 93.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<11		57	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,3-Dichloropropane	<7.6		57	7.6	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
2,2-Dichloropropane	<18		57	18	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1-Dichloropropene	<20		57	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
cis-1,3-Dichloropropene	<10		57	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
trans-1,3-Dichloropropene	<12		57	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Isopropyl ether	<8.3		110	8.3	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Ethylbenzene	<7.1		14	7.1	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Hexachlorobutadiene	<20		110	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Methylene Chloride	<39		280	39	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Naphthalene	<28		110	28	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
N-Propylbenzene	<9.9		110	9.9	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Styrene	<5.6		57	5.6	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1,1,2-Tetrachloroethane	<20		110	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1,2,2-Tetrachloroethane	<13		57	13	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Tetrachloroethene	**810**		57	9.5	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Toluene	<6.5		14	6.5	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1,1-Trichloroethane	<11		57	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,1,2-Trichloroethane	<16		57	16	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Trichloroethene	<11		28	11	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Trichlorofluoromethane	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2,3-Trichloropropane	<33		110	33	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Vinyl chloride	<5.9		14	5.9	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50
Xylenes, Total	**23**	J	28	3.9	ug/Kg	☼	10/16/13 11:00	10/24/13 04:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 125*	*10/16/13 11:00*	*10/24/13 04:41*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:41*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:41*	*50*
Dibromofluoromethane	*92*		*75 - 120*	*10/16/13 11:00*	*10/24/13 04:41*	*50*

Client Sample ID: EX-5 4'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-5
Matrix: Solid
Percent Solids: 95.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.1		14	4.1	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Bromoform	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50

Client Sample ID: EX-5 4'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-5
Matrix: Solid
Percent Solids: 95.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<7.1		55	7.1	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
sec-Butylbenzene	<8.5		55	8.5	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
tert-Butylbenzene	<7.5		55	7.5	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Carbon tetrachloride	<14		55	14	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Chlorobenzene	<7.9		55	7.9	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Chloroform	<11		55	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
2-Chlorotoluene	<11		55	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
4-Chlorotoluene	<11		55	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2-Dibromo-3-Chloropropane	<48		110	48	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,4-Dichlorobenzene	<9.6		110	9.6	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Dichlorodifluoromethane	<28		110	28	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1-Dichloroethane	<10		55	10	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2-Dichloroethane	<16		55	16	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1-Dichloroethene	<17		55	17	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
cis-1,2-Dichloroethene	<6.8		55	6.8	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
trans-1,2-Dichloroethene	<14		55	14	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2-Dichloropropane	<11		55	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,3-Dichloropropane	<7.4		55	7.4	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
2,2-Dichloropropane	<17		55	17	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1-Dichloropropene	<19		55	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
cis-1,3-Dichloropropene	<9.8		55	9.8	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
trans-1,3-Dichloropropene	<12		55	12	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Isopropyl ether	<8.1		110	8.1	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Ethylbenzene	<7.0		14	7.0	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Naphthalene	<27		110	27	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
N-Propylbenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Styrene	<5.5		55	5.5	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1,2,2-Tetrachloroethane	<13		55	13	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Tetrachloroethene	**92**		55	9.2	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Toluene	<6.4		14	6.4	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2,3-Trichlorobenzene	<19		110	19	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1,1-Trichloroethane	<11		55	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,1,2-Trichloroethane	<15		55	15	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Trichloroethene	<10		28	10	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50

Client Sample ID: EX-5 4'
Date Collected: 10/16/13 11:00
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-5
Matrix: Solid
Percent Solids: 95.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Vinyl chloride	<5.8		14	5.8	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50
Xylenes, Total	<3.8		28	3.8	ug/Kg	☼	10/16/13 11:00	10/24/13 05:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 125*	*10/16/13 11:00*	*10/24/13 05:06*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/13 11:00*	*10/24/13 05:06*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*10/16/13 11:00*	*10/24/13 05:06*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*10/16/13 11:00*	*10/24/13 05:06*	*50*

Client Sample ID: Base
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-6
Matrix: Solid
Percent Solids: 94.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.2		14	4.2	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
n-Butylbenzene	<7.2		56	7.2	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
sec-Butylbenzene	<8.6		56	8.6	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
tert-Butylbenzene	<7.6		56	7.6	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Carbon tetrachloride	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Chlorobenzene	<8.0		56	8.0	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Chloroform	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
2-Chlorotoluene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,4-Dichlorobenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
cis-1,2-Dichloroethene	<6.9		56	6.9	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50

Client Sample ID: Base

Lab Sample ID: 500-65246-6

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
cis-1,3-Dichloropropene	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Isopropyl ether	<8.2		110	8.2	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Ethylbenzene	<7.1		14	7.1	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Naphthalene	<28		110	28	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
N-Propylbenzene	<9.8		110	9.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Styrene	<5.5		56	5.5	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Tetrachloroethene	**2200**		56	9.3	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Toluene	<6.4		14	6.4	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Trichloroethene	<10		28	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Vinyl chloride	<5.8		14	5.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50
Xylenes, Total	**27**	J	28	3.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*	*10/16/13 15:30*	*10/24/13 05:31*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:31*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:31*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:31*	*50*

Client Sample ID: North

Lab Sample ID: 500-65246-7

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.1		14	4.1	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
n-Butylbenzene	<7.2		56	7.2	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
sec-Butylbenzene	<8.6		56	8.6	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
tert-Butylbenzene	<7.6		56	7.6	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50

Client Sample ID: North
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-7
Matrix: Solid
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Chlorobenzene	<8.0		56	8.0	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Chloroform	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
2-Chlorotoluene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,4-Dichlorobenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
cis-1,2-Dichloroethene	<6.9		56	6.9	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
cis-1,3-Dichloropropene	<9.9		56	9.9	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Isopropyl ether	<8.2		110	8.2	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Ethylbenzene	<7.0		14	7.0	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Naphthalene	<28		110	28	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
N-Propylbenzene	<9.8		110	9.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Styrene	<5.5		56	5.5	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Tetrachloroethene	**14000**		560	93	ug/Kg	☼	10/16/13 15:30	10/24/13 06:20	500
Toluene	<6.4		14	6.4	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Trichloroethene	**27**	J	28	10	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50

Client Sample ID: North

Lab Sample ID: 500-65246-7

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<5.8		14	5.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50
Xylenes, Total	30		28	3.8	ug/Kg	☼	10/16/13 15:30	10/24/13 05:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*10/16/13 15:30*	*10/24/13 05:56*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 125*	*10/16/13 15:30*	*10/24/13 06:20*	*500*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:56*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:20*	*500*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:56*	*50*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:20*	*500*
Dibromofluoromethane	*91*		*75 - 120*	*10/16/13 15:30*	*10/24/13 05:56*	*50*
Dibromofluoromethane	*92*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:20*	*500*

Client Sample ID: South

Lab Sample ID: 500-65246-8

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.2		14	4.2	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
n-Butylbenzene	<7.3		56	7.3	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
sec-Butylbenzene	<8.7		56	8.7	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
tert-Butylbenzene	<7.7		56	7.7	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Carbon tetrachloride	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Chlorobenzene	<8.1		56	8.1	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Chloroform	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
2-Chlorotoluene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2-Dichlorobenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,4-Dichlorobenzene	<9.8		110	9.8	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
cis-1,2-Dichloroethene	<6.9		56	6.9	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50

Client Sample ID: South
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-8
Matrix: Solid
Percent Solids: 93.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
cis-1,3-Dichloropropene	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Isopropyl ether	<8.3		110	8.3	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Ethylbenzene	<7.1		14	7.1	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Naphthalene	<28		110	28	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
N-Propylbenzene	<9.9		110	9.9	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Styrene	<5.6		56	5.6	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Tetrachloroethene	**1100**		56	9.4	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Toluene	<6.5		14	6.5	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Trichloroethene	<10		28	10	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Vinyl chloride	<5.9		14	5.9	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50
Xylenes, Total	**29**		28	3.9	ug/Kg	☼	10/16/13 15:30	10/24/13 06:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*	*10/16/13 15:30*	*10/24/13 06:45*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:45*	*50*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:45*	*50*
Dibromofluoromethane	*88*		*75 - 120*	*10/16/13 15:30*	*10/24/13 06:45*	*50*

Client Sample ID: East
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-9
Matrix: Solid
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.2		14	4.2	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Bromobenzene	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Bromochloromethane	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Bromoform	<25		110	25	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Bromomethane	<38	*	110	38	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
n-Butylbenzene	<7.2		56	7.2	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
sec-Butylbenzene	<8.6		56	8.6	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50

Client Sample ID: East
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-9
Matrix: Solid
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<7.6		56	7.6	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Carbon tetrachloride	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Chlorobenzene	<8.0		56	8.0	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Chloroethane	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Chloroform	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Chloromethane	<26		110	26	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
2-Chlorotoluene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
4-Chlorotoluene	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2-Dibromo-3-Chloropropane	<49		110	49	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Dibromomethane	<27		110	27	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,4-Dichlorobenzene	<9.7		110	9.7	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1-Dichloroethane	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2-Dichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1-Dichloroethene	<17		56	17	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
cis-1,2-Dichloroethene	<6.9		56	6.9	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
trans-1,2-Dichloroethene	<14		56	14	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2-Dichloropropane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,3-Dichloropropane	<7.5		56	7.5	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
2,2-Dichloropropane	<18		56	18	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1-Dichloropropene	<19		56	19	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
cis-1,3-Dichloropropene	<10		56	10	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
trans-1,3-Dichloropropene	<12		56	12	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Isopropyl ether	<8.2		110	8.2	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Ethylbenzene	<7.1		14	7.1	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Methylene Chloride	<38		280	38	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Methyl tert-butyl ether	<24		110	24	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Naphthalene	<28		110	28	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
N-Propylbenzene	<9.8		110	9.8	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Styrene	<5.5		56	5.5	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1,2,2-Tetrachloroethane	<13		56	13	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Tetrachloroethene	**1400**		56	9.3	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Toluene	<6.4		14	6.4	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2,4-Trichlorobenzene	<21		110	21	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1,1-Trichloroethane	<11		56	11	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,1,2-Trichloroethane	<16		56	16	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Trichloroethene	<10		28	10	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2,3-Trichloropropane	<32		110	32	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50

Client Sample ID: East

Lab Sample ID: 500-65246-9

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Vinyl chloride	<5.8		14	5.8	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50
Xylenes, Total	24	J	28	3.8	ug/Kg	☼	10/16/13 15:30	10/24/13 07:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*	*10/16/13 15:30*	*10/24/13 07:10*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*10/16/13 15:30*	*10/24/13 07:10*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*10/16/13 15:30*	*10/24/13 07:10*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*10/16/13 15:30*	*10/24/13 07:10*	*50*

Client Sample ID: West

Lab Sample ID: 500-65246-10

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<4.3		14	4.3	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Bromobenzene	<25		120	25	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Bromochloromethane	<22		120	22	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Bromoform	<25		120	25	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Bromomethane	<39		120	39	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
sec-Butylbenzene	<8.9		58	8.9	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
tert-Butylbenzene	<7.9		58	7.9	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Chlorobenzene	<8.3		58	8.3	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Chloroethane	<25		120	25	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Chloroform	<12		58	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Chloromethane	<27		120	27	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
4-Chlorotoluene	<11		58	11	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Dibromomethane	<28		120	28	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2-Dichloroethane	<16		58	16	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,3-Dichloropropane	<7.7		58	7.7	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50

Client Sample ID: West

Lab Sample ID: 500-65246-10

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Ethylbenzene	<7.3		14	7.3	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Methylene Chloride	<39		290	39	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Naphthalene	<29		120	29	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Styrene	<5.7		58	5.7	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Tetrachloroethene	**1100**		58	9.7	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Toluene	<6.6		14	6.6	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Trichloroethene	<11		29	11	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50
Xylenes, Total	**24**	J	29	4.0	ug/Kg	☼	10/16/13 15:30	10/24/13 16:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*	*10/16/13 15:30*	*10/24/13 16:52*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*10/16/13 15:30*	*10/24/13 16:52*	*50*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*	*10/16/13 15:30*	*10/24/13 16:52*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*10/16/13 15:30*	*10/24/13 16:52*	*50*

Client Sample ID: Trip Blank

Lab Sample ID: 500-65246-11

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<3.7		13	3.7	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Bromobenzene	<21		100	21	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Bromochloromethane	<19		100	19	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Bromodichloromethane	<17		100	17	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Bromoform	<22		100	22	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Bromomethane	<34		100	34	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Carbon tetrachloride	<13		50	13	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		10/16/13 15:30	10/24/13 17:17	50

Client Sample ID: Trip Blank

Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<17		100	17	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Chloroethane	<22		100	22	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Chloroform	<10		50	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Chloromethane	<23		100	23	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
2-Chlorotoluene	<10		50	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2-Dibromoethane	<16		100	16	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Dibromomethane	<24		100	24	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2-Dichloroethane	<14		50	14	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1-Dichloroethene	<15		50	15	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
2,2-Dichloropropane	<16		50	16	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1-Dichloropropene	<17		50	17	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Hexachlorobutadiene	<17		100	17	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Isopropylbenzene	<13		100	13	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Methylene Chloride	<34		250	34	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Naphthalene	<25		100	25	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Styrene	<4.9		50	4.9	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Toluene	<5.8		13	5.8	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Trichloroethene	<9.3		25	9.3	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Trichlorofluoromethane	<21		100	21	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		10/16/13 15:30	10/24/13 17:17	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		10/16/13 15:30	10/24/13 17:17	50

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Client Sample ID: Trip Blank
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-11
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125	10/16/13 15:30	10/24/13 17:17	50
Toluene-d8 (Surr)	100		75 - 120	10/16/13 15:30	10/24/13 17:17	50
4-Bromofluorobenzene (Surr)	102		75 - 120	10/16/13 15:30	10/24/13 17:17	50
Dibromofluoromethane	91		75 - 120	10/16/13 15:30	10/24/13 17:17	50

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 207824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65246-1	EX-1 4'	Total/NA	Solid	5035	
500-65246-2	EX-2 2'	Total/NA	Solid	5035	
500-65246-3	EX-3 2'	Total/NA	Solid	5035	
500-65246-4	EX-4 2'	Total/NA	Solid	5035	
500-65246-5	EX-5 4'	Total/NA	Solid	5035	
500-65246-6	Base	Total/NA	Solid	5035	
500-65246-7	North	Total/NA	Solid	5035	
500-65246-8	South	Total/NA	Solid	5035	
500-65246-9	East	Total/NA	Solid	5035	
500-65246-9 MS	East	Total/NA	Solid	5035	
500-65246-9 MSD	East	Total/NA	Solid	5035	
500-65246-10	West	Total/NA	Solid	5035	
500-65246-11	Trip Blank	Total/NA	Solid	5035	
LB3 500-207824/12-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-207824/13-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 208324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65246-1	EX-1 4'	Total/NA	Solid	8260B	207824
500-65246-2	EX-2 2'	Total/NA	Solid	8260B	207824
500-65246-3	EX-3 2'	Total/NA	Solid	8260B	207824
500-65246-4	EX-4 2'	Total/NA	Solid	8260B	207824
500-65246-5	EX-5 4'	Total/NA	Solid	8260B	207824
500-65246-6	Base	Total/NA	Solid	8260B	207824
500-65246-7	North	Total/NA	Solid	8260B	207824
500-65246-7	North	Total/NA	Solid	8260B	207824
500-65246-8	South	Total/NA	Solid	8260B	207824
500-65246-9	East	Total/NA	Solid	8260B	207824
500-65246-9 MS	East	Total/NA	Solid	8260B	207824
500-65246-9 MSD	East	Total/NA	Solid	8260B	207824
LCS 500-208324/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-208324/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 208456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65246-10	West	Total/NA	Solid	8260B	207824
500-65246-11	Trip Blank	Total/NA	Solid	8260B	207824
LB3 500-207824/12-A LB3	Method Blank	Total/NA	Solid	8260B	207824
LCS 500-207824/13-A	Lab Control Sample	Total/NA	Solid	8260B	207824
LCS 500-208456/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-208456/6	Method Blank	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 208096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65246-1	EX-1 4'	Total/NA	Solid	Moisture	
500-65246-2	EX-2 2'	Total/NA	Solid	Moisture	
500-65246-3	EX-3 2'	Total/NA	Solid	Moisture	
500-65246-4	EX-4 2'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 208096 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65246-5	EX-5 4'	Total/NA	Solid	Moisture	
500-65246-6	Base	Total/NA	Solid	Moisture	
500-65246-7	North	Total/NA	Solid	Moisture	
500-65246-8	South	Total/NA	Solid	Moisture	
500-65246-9	East	Total/NA	Solid	Moisture	
500-65246-10	West	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-65246-1	EX-1 4'	106	102	105	92
500-65246-2	EX-2 2'	104	99	105	88
500-65246-3	EX-3 2'	107	100	103	91
500-65246-4	EX-4 2'	108	99	108	92
500-65246-5	EX-5 4'	109	99	104	89
500-65246-6	Base	105	101	104	89
500-65246-7	North	107	99	106	91
500-65246-7	North	110	99	108	92
500-65246-8	South	105	101	107	88
500-65246-9	East	107	100	104	90
500-65246-9 MS	East	107	97	99	96
500-65246-9 MSD	East	105	96	98	98
500-65246-10	West	106	100	104	90
500-65246-11	Trip Blank	107	100	102	91
LB3 500-207824/12-A LB3	Method Blank	104	99	103	90
LCS 500-207824/13-A	Lab Control Sample	106	98	96	97
LCS 500-208324/4	Lab Control Sample	106	99	94	95
LCS 500-208456/4	Lab Control Sample	99	98	96	95
MB 500-208324/6	Method Blank	106	100	102	91
MB 500-208456/6	Method Blank	104	101	102	88

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-207824/12-A LB3
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 207824

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<3.7		13	3.7	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Bromobenzene	<21		100	21	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Bromochloromethane	<19		100	19	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Bromodichloromethane	<17		100	17	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Bromoform	<22		100	22	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Bromomethane	<34		100	34	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Carbon tetrachloride	<13		50	13	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Dibromochloromethane	<17		100	17	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Chloroethane	<22		100	22	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Chloroform	<10		50	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Chloromethane	<23		100	23	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
2-Chlorotoluene	<10		50	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2-Dibromoethane	<16		100	16	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Dibromomethane	<24		100	24	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2-Dichloroethane	<14		50	14	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1-Dichloroethene	<15		50	15	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
2,2-Dichloropropane	<16		50	16	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1-Dichloropropene	<17		50	17	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Hexachlorobutadiene	<17		100	17	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Isopropylbenzene	<13		100	13	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Methylene Chloride	<34		250	34	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Naphthalene	<25		100	25	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Styrene	<4.9		50	4.9	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		10/19/13 20:00	10/24/13 16:28	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-207824/12-A LB3 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208456 — **Prep Batch: 207824**

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<5.8		13	5.8	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Trichloroethene	<9.3		25	9.3	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Trichlorofluoromethane	<21		100	21	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		10/19/13 20:00	10/24/13 16:28	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		10/19/13 20:00	10/24/13 16:28	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*	*10/19/13 20:00*	*10/24/13 16:28*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/19/13 20:00*	*10/24/13 16:28*	*50*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*	*10/19/13 20:00*	*10/24/13 16:28*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*10/19/13 20:00*	*10/24/13 16:28*	*50*

Lab Sample ID: LCS 500-207824/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208456 — **Prep Batch: 207824**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2500	2540		ug/Kg		101	70 - 120
Bromobenzene	2500	2390		ug/Kg		95	70 - 120
Bromochloromethane	2500	2440		ug/Kg		98	67 - 122
Bromodichloromethane	2500	2470		ug/Kg		99	70 - 120
Bromoform	2500	2090		ug/Kg		83	70 - 125
Bromomethane	2500	3390		ug/Kg		136	50 - 150
n-Butylbenzene	2500	2490		ug/Kg		99	75 - 120
sec-Butylbenzene	2500	2490		ug/Kg		100	70 - 120
tert-Butylbenzene	2500	2450		ug/Kg		98	70 - 120
Carbon tetrachloride	2500	2430		ug/Kg		97	70 - 125
Chlorobenzene	2500	2420		ug/Kg		97	70 - 120
Dibromochloromethane	2500	2260		ug/Kg		90	70 - 120
Chloroethane	2500	2720		ug/Kg		109	50 - 150
Chloroform	2500	2620		ug/Kg		105	70 - 120
Chloromethane	2500	2060		ug/Kg		82	50 - 134
2-Chlorotoluene	2500	2470		ug/Kg		99	70 - 120
4-Chlorotoluene	2500	2460		ug/Kg		98	70 - 120
1,2-Dibromo-3-Chloropropane	2500	2240		ug/Kg		90	60 - 121
1,2-Dibromoethane	2500	2410		ug/Kg		96	70 - 120
Dibromomethane	2500	2520		ug/Kg		101	70 - 120
1,2-Dichlorobenzene	2500	2480		ug/Kg		99	75 - 120
1,3-Dichlorobenzene	2500	2400		ug/Kg		96	70 - 120
1,4-Dichlorobenzene	2500	2390		ug/Kg		96	75 - 120
Dichlorodifluoromethane	2500	1460		ug/Kg		58	40 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-207824/13-A
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	2500	2610		ug/Kg		105	68 - 121
1,2-Dichloroethane	2500	2780		ug/Kg		111	69 - 120
1,1-Dichloroethene	2500	2290		ug/Kg		92	58 - 122
cis-1,2-Dichloroethene	2500	2440		ug/Kg		98	70 - 120
trans-1,2-Dichloroethene	2500	2420		ug/Kg		97	70 - 124
1,2-Dichloropropane	2500	2530		ug/Kg		101	70 - 120
1,3-Dichloropropane	2500	2550		ug/Kg		102	70 - 120
2,2-Dichloropropane	2500	2670		ug/Kg		107	67 - 125
1,1-Dichloropropene	2500	2500		ug/Kg		100	70 - 120
cis-1,3-Dichloropropene	2500	2460		ug/Kg		98	70 - 120
trans-1,3-Dichloropropene	2500	2410		ug/Kg		96	70 - 120
Ethylbenzene	2500	2400		ug/Kg		96	75 - 120
Hexachlorobutadiene	2500	2260		ug/Kg		91	65 - 135
Isopropylbenzene	2500	2450		ug/Kg		98	70 - 120
p-Isopropyltoluene	2500	2460		ug/Kg		98	70 - 120
Methylene Chloride	2500	2570		ug/Kg		103	65 - 125
Methyl tert-butyl ether	2500	2570		ug/Kg		103	58 - 122
Naphthalene	2500	2640		ug/Kg		106	55 - 132
N-Propylbenzene	2500	2480		ug/Kg		99	70 - 120
Styrene	2500	2470		ug/Kg		99	75 - 120
1,1,1,2-Tetrachloroethane	2500	2320		ug/Kg		93	75 - 120
1,1,2,2-Tetrachloroethane	2500	2460		ug/Kg		99	70 - 128
Tetrachloroethene	2500	2300		ug/Kg		92	70 - 123
Toluene	2500	2510		ug/Kg		101	70 - 120
1,2,3-Trichlorobenzene	2500	2460		ug/Kg		98	56 - 137
1,2,4-Trichlorobenzene	2500	2370		ug/Kg		95	65 - 121
1,1,1-Trichloroethane	2500	2560		ug/Kg		102	70 - 123
1,1,2-Trichloroethane	2500	2440		ug/Kg		98	69 - 120
Trichloroethene	2500	2410		ug/Kg		96	70 - 120
Trichlorofluoromethane	2500	2310		ug/Kg		92	63 - 134
1,2,3-Trichloropropane	2500	2430		ug/Kg		97	70 - 120
1,2,4-Trimethylbenzene	2500	2530		ug/Kg		101	75 - 121
1,3,5-Trimethylbenzene	2500	2500		ug/Kg		100	75 - 123
Vinyl chloride	2500	2010		ug/Kg		81	62 - 138
Xylenes, Total	5000	4940		ug/Kg		99	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*
Toluene-d8 (Surr)	*98*		*75 - 120*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*
Dibromofluoromethane	*97*		*75 - 120*

Lab Sample ID: 500-65246-9 MS
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: East
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<4.2		2800	2950		ug/Kg	☼	105	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-65246-9 MS
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: East
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	<24		2800	2990		ug/Kg	☼	107	70 - 120
Bromochloromethane	<21		2800	2900		ug/Kg	☼	104	67 - 122
Bromodichloromethane	<19		2800	2910		ug/Kg	☼	104	70 - 120
Bromoform	<25		2800	2580		ug/Kg	☼	92	70 - 125
Bromomethane	<38	*	2800	4510	F	ug/Kg	☼	161	50 - 150
n-Butylbenzene	<7.2		2800	2880		ug/Kg	☼	103	75 - 120
sec-Butylbenzene	<8.6		2800	3040		ug/Kg	☼	109	70 - 120
tert-Butylbenzene	<7.6		2800	3020		ug/Kg	☼	108	70 - 120
Carbon tetrachloride	<14		2800	2790		ug/Kg	☼	100	70 - 125
Chlorobenzene	<8.0		2800	2890		ug/Kg	☼	103	70 - 120
Dibromochloromethane	<19		2800	2620		ug/Kg	☼	94	70 - 120
Chloroethane	<24		2800	3470		ug/Kg	☼	124	50 - 150
Chloroform	<11		2800	3070		ug/Kg	☼	110	70 - 120
Chloromethane	<26		2800	2970		ug/Kg	☼	106	50 - 134
2-Chlorotoluene	<12		2800	3050		ug/Kg	☼	109	70 - 120
4-Chlorotoluene	<11		2800	3010		ug/Kg	☼	107	70 - 120
1,2-Dibromo-3-Chloropropane	<49		2800	2780		ug/Kg	☼	99	60 - 121
1,2-Dibromoethane	<18		2800	2880		ug/Kg	☼	103	70 - 120
Dibromomethane	<27		2800	3000		ug/Kg	☼	107	70 - 120
1,2-Dichlorobenzene	<11		2800	3020		ug/Kg	☼	108	75 - 120
1,3-Dichlorobenzene	<14		2800	2890		ug/Kg	☼	103	70 - 120
1,4-Dichlorobenzene	<9.7		2800	2850		ug/Kg	☼	102	75 - 120
Dichlorodifluoromethane	<29		2800	2680		ug/Kg	☼	96	40 - 140
1,1-Dichloroethane	<10		2800	3000		ug/Kg	☼	107	68 - 121
1,2-Dichloroethane	<16		2800	3170		ug/Kg	☼	113	69 - 120
1,1-Dichloroethene	<17		2800	2550		ug/Kg	☼	91	58 - 122
cis-1,2-Dichloroethene	<6.9		2800	2830		ug/Kg	☼	101	70 - 120
trans-1,2-Dichloroethene	<14		2800	2740		ug/Kg	☼	98	70 - 124
1,2-Dichloropropane	<11		2800	2910		ug/Kg	☼	104	70 - 120
1,3-Dichloropropane	<7.5		2800	3040		ug/Kg	☼	109	70 - 120
2,2-Dichloropropane	<18		2800	3050		ug/Kg	☼	109	67 - 125
1,1-Dichloropropene	<19		2800	2910		ug/Kg	☼	104	70 - 120
cis-1,3-Dichloropropene	<10		2800	2800		ug/Kg	☼	100	70 - 120
trans-1,3-Dichloropropene	<12		2800	2860		ug/Kg	☼	102	70 - 120
Ethylbenzene	<7.1		2800	2860		ug/Kg	☼	102	75 - 120
Hexachlorobutadiene	<19		2800	2700		ug/Kg	☼	96	65 - 135
Isopropylbenzene	<14		2800	2990		ug/Kg	☼	107	70 - 120
p-Isopropyltoluene	<10		2800	2950		ug/Kg	☼	105	70 - 120
Methylene Chloride	<38		2800	2980		ug/Kg	☼	107	65 - 125
Methyl tert-butyl ether	<24		2800	2910		ug/Kg	☼	104	58 - 122
Naphthalene	<28		2800	3220		ug/Kg	☼	115	55 - 132
N-Propylbenzene	<9.8		2800	2990		ug/Kg	☼	107	70 - 120
Styrene	<5.5		2800	2990		ug/Kg	☼	107	75 - 120
1,1,1,2-Tetrachloroethane	<19		2800	2780		ug/Kg	☼	99	75 - 120
1,1,2,2-Tetrachloroethane	<13		2800	3080		ug/Kg	☼	110	70 - 128
Tetrachloroethene	1400		2800	3950		ug/Kg	☼	91	70 - 123
Toluene	<6.4		2800	2910		ug/Kg	☼	104	70 - 120
1,2,3-Trichlorobenzene	<20		2800	2880		ug/Kg	☼	103	56 - 137

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-65246-9 MS
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: East
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	<21		2800	2720		ug/Kg	☼	97	65 - 121
1,1,1-Trichloroethane	<11		2800	2910		ug/Kg	☼	104	70 - 123
1,1,2-Trichloroethane	<16		2800	2900		ug/Kg	☼	104	69 - 120
Trichloroethene	<10		2800	2780		ug/Kg	☼	99	70 - 120
Trichlorofluoromethane	<23		2800	2900		ug/Kg	☼	104	63 - 134
1,2,3-Trichloropropane	<32		2800	3060		ug/Kg	☼	109	70 - 120
1,2,4-Trimethylbenzene	<12		2800	3040		ug/Kg	☼	109	75 - 121
1,3,5-Trimethylbenzene	<12		2800	3040		ug/Kg	☼	109	75 - 123
Vinyl chloride	<5.8		2800	2910		ug/Kg	☼	104	62 - 138
Xylenes, Total	24	J	5600	5920		ug/Kg	☼	105	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*
Toluene-d8 (Surr)	*97*		*75 - 120*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane	*96*		*75 - 120*

Lab Sample ID: 500-65246-9 MSD
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: East
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<4.2		2800	2780		ug/Kg	☼	99	70 - 120	6	30
Bromobenzene	<24		2800	2650		ug/Kg	☼	95	70 - 120	12	30
Bromochloromethane	<21		2800	2710		ug/Kg	☼	97	67 - 122	7	30
Bromodichloromethane	<19		2800	2710		ug/Kg	☼	97	70 - 120	7	30
Bromoform	<25		2800	2410		ug/Kg	☼	86	70 - 125	7	30
Bromomethane	<38	*	2800	4180		ug/Kg	☼	150	50 - 150	8	30
n-Butylbenzene	<7.2		2800	2790		ug/Kg	☼	100	75 - 120	3	30
sec-Butylbenzene	<8.6		2800	2790		ug/Kg	☼	100	70 - 120	9	30
tert-Butylbenzene	<7.6		2800	2730		ug/Kg	☼	97	70 - 120	10	30
Carbon tetrachloride	<14		2800	2620		ug/Kg	☼	94	70 - 125	6	30
Chlorobenzene	<8.0		2800	2710		ug/Kg	☼	97	70 - 120	7	30
Dibromochloromethane	<19		2800	2510		ug/Kg	☼	90	70 - 120	4	30
Chloroethane	<24		2800	3370		ug/Kg	☼	121	50 - 150	3	30
Chloroform	<11		2800	2880		ug/Kg	☼	103	70 - 120	6	30
Chloromethane	<26		2800	2990		ug/Kg	☼	107	50 - 134	1	30
2-Chlorotoluene	<12		2800	2770		ug/Kg	☼	99	70 - 120	10	30
4-Chlorotoluene	<11		2800	2770		ug/Kg	☼	99	70 - 120	8	30
1,2-Dibromo-3-Chloropropane	<49		2800	2460		ug/Kg	☼	88	60 - 121	12	30
1,2-Dibromoethane	<18		2800	2590		ug/Kg	☼	93	70 - 120	10	30
Dibromomethane	<27		2800	2760		ug/Kg	☼	99	70 - 120	8	30
1,2-Dichlorobenzene	<11		2800	2790		ug/Kg	☼	100	75 - 120	8	30
1,3-Dichlorobenzene	<14		2800	2710		ug/Kg	☼	97	70 - 120	6	30
1,4-Dichlorobenzene	<9.7		2800	2700		ug/Kg	☼	97	75 - 120	5	30
Dichlorodifluoromethane	<29		2800	2860		ug/Kg	☼	102	40 - 140	6	30
1,1-Dichloroethane	<10		2800	2840		ug/Kg	☼	101	68 - 121	6	30
1,2-Dichloroethane	<16		2800	3020		ug/Kg	☼	108	69 - 120	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-65246-9 MSD
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: East
Prep Type: Total/NA
Prep Batch: 207824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	<17		2800	2420		ug/Kg	☼	86	58 - 122	5	30
cis-1,2-Dichloroethene	<6.9		2800	2740		ug/Kg	☼	98	70 - 120	3	30
trans-1,2-Dichloroethene	<14		2800	2630		ug/Kg	☼	94	70 - 124	4	30
1,2-Dichloropropane	<11		2800	2750		ug/Kg	☼	98	70 - 120	6	30
1,3-Dichloropropane	<7.5		2800	2810		ug/Kg	☼	100	70 - 120	8	30
2,2-Dichloropropane	<18		2800	2860		ug/Kg	☼	102	67 - 125	6	30
1,1-Dichloropropene	<19		2800	2740		ug/Kg	☼	98	70 - 120	6	30
cis-1,3-Dichloropropene	<10		2800	2650		ug/Kg	☼	95	70 - 120	6	30
trans-1,3-Dichloropropene	<12		2800	2700		ug/Kg	☼	96	70 - 120	6	30
Ethylbenzene	<7.1		2800	2730		ug/Kg	☼	98	75 - 120	4	30
Hexachlorobutadiene	<19		2800	2500		ug/Kg	☼	89	65 - 135	8	30
Isopropylbenzene	<14		2800	2720		ug/Kg	☼	97	70 - 120	9	30
p-Isopropyltoluene	<10		2800	2770		ug/Kg	☼	99	70 - 120	6	30
Methylene Chloride	<38		2800	2840		ug/Kg	☼	102	65 - 125	5	30
Methyl tert-butyl ether	<24		2800	2760		ug/Kg	☼	99	58 - 122	5	30
Naphthalene	<28		2800	2980		ug/Kg	☼	106	55 - 132	8	30
N-Propylbenzene	<9.8		2800	2780		ug/Kg	☼	99	70 - 120	7	30
Styrene	<5.5		2800	2790		ug/Kg	☼	100	75 - 120	7	30
1,1,1,2-Tetrachloroethane	<19		2800	2620		ug/Kg	☼	94	75 - 120	6	30
1,1,2,2-Tetrachloroethane	<13		2800	2740		ug/Kg	☼	98	70 - 128	12	30
Tetrachloroethene	1400		2800	3890		ug/Kg	☼	89	70 - 123	2	30
Toluene	<6.4		2800	2740		ug/Kg	☼	98	70 - 120	6	30
1,2,3-Trichlorobenzene	<20		2800	2780		ug/Kg	☼	99	56 - 137	4	30
1,2,4-Trichlorobenzene	<21		2800	2690		ug/Kg	☼	96	65 - 121	1	30
1,1,1-Trichloroethane	<11		2800	2780		ug/Kg	☼	99	70 - 123	5	30
1,1,2-Trichloroethane	<16		2800	2680		ug/Kg	☼	96	69 - 120	8	30
Trichloroethene	<10		2800	2670		ug/Kg	☼	95	70 - 120	4	30
Trichlorofluoromethane	<23		2800	3030		ug/Kg	☼	108	63 - 134	5	30
1,2,3-Trichloropropane	<32		2800	2670		ug/Kg	☼	95	70 - 120	14	30
1,2,4-Trimethylbenzene	<12		2800	2830		ug/Kg	☼	101	75 - 121	7	30
1,3,5-Trimethylbenzene	<12		2800	2790		ug/Kg	☼	100	75 - 123	9	30
Vinyl chloride	<5.8		2800	2890		ug/Kg	☼	103	62 - 138	1	30
Xylenes, Total	24	J	5600	5600		ug/Kg	☼	100	70 - 120	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*
Toluene-d8 (Surr)	*96*		*75 - 120*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*
Dibromofluoromethane	*98*		*75 - 120*

Lab Sample ID: MB 500-208324/6
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.25	0.074	ug/Kg			10/23/13 22:55	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			10/23/13 22:55	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			10/23/13 22:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-208324/6
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			10/23/13 22:55	1
Bromoform	<0.44		2.0	0.44	ug/Kg			10/23/13 22:55	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			10/23/13 22:55	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			10/23/13 22:55	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			10/23/13 22:55	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			10/23/13 22:55	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			10/23/13 22:55	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			10/23/13 22:55	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			10/23/13 22:55	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			10/23/13 22:55	1
Chloroform	<0.21		1.0	0.21	ug/Kg			10/23/13 22:55	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			10/23/13 22:55	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			10/23/13 22:55	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			10/23/13 22:55	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			10/23/13 22:55	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			10/23/13 22:55	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			10/23/13 22:55	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			10/23/13 22:55	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			10/23/13 22:55	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			10/23/13 22:55	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			10/23/13 22:55	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			10/23/13 22:55	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			10/23/13 22:55	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			10/23/13 22:55	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			10/23/13 22:55	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			10/23/13 22:55	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			10/23/13 22:55	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			10/23/13 22:55	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			10/23/13 22:55	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			10/23/13 22:55	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			10/23/13 22:55	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			10/23/13 22:55	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			10/23/13 22:55	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			10/23/13 22:55	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			10/23/13 22:55	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			10/23/13 22:55	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			10/23/13 22:55	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			10/23/13 22:55	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			10/23/13 22:55	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			10/23/13 22:55	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			10/23/13 22:55	1
Styrene	<0.099		1.0	0.099	ug/Kg			10/23/13 22:55	1
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			10/23/13 22:55	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			10/23/13 22:55	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			10/23/13 22:55	1
Toluene	<0.12		0.25	0.12	ug/Kg			10/23/13 22:55	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			10/23/13 22:55	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			10/23/13 22:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-208324/6
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			10/23/13 22:55	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			10/23/13 22:55	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			10/23/13 22:55	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			10/23/13 22:55	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			10/23/13 22:55	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/23/13 22:55	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/23/13 22:55	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			10/23/13 22:55	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			10/23/13 22:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*		*10/23/13 22:55*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*10/23/13 22:55*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*10/23/13 22:55*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*10/23/13 22:55*	*1*

Lab Sample ID: LCS 500-208324/4
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.1		ug/Kg		102	70 - 120
Bromobenzene	50.0	47.2		ug/Kg		94	70 - 120
Bromochloromethane	50.0	48.7		ug/Kg		97	67 - 122
Bromodichloromethane	50.0	50.6		ug/Kg		101	70 - 120
Bromoform	50.0	44.3		ug/Kg		89	70 - 125
Bromomethane	50.0	77.3	*	ug/Kg		155	50 - 150
n-Butylbenzene	50.0	52.3		ug/Kg		105	75 - 120
sec-Butylbenzene	50.0	50.4		ug/Kg		101	70 - 120
tert-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 120
Carbon tetrachloride	50.0	48.3		ug/Kg		97	70 - 125
Chlorobenzene	50.0	50.1		ug/Kg		100	70 - 120
Dibromochloromethane	50.0	46.0		ug/Kg		92	70 - 120
Chloroethane	50.0	65.8		ug/Kg		132	50 - 150
Chloroform	50.0	52.6		ug/Kg		105	70 - 120
Chloromethane	50.0	51.7		ug/Kg		103	50 - 134
2-Chlorotoluene	50.0	49.7		ug/Kg		99	70 - 120
4-Chlorotoluene	50.0	50.0		ug/Kg		100	70 - 120
1,2-Dibromo-3-Chloropropane	50.0	46.2		ug/Kg		92	60 - 121
1,2-Dibromoethane	50.0	48.8		ug/Kg		98	70 - 120
Dibromomethane	50.0	50.7		ug/Kg		101	70 - 120
1,2-Dichlorobenzene	50.0	49.8		ug/Kg		100	75 - 120
1,3-Dichlorobenzene	50.0	49.4		ug/Kg		99	70 - 120
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	75 - 120
Dichlorodifluoromethane	50.0	48.4		ug/Kg		97	40 - 140
1,1-Dichloroethane	50.0	51.5		ug/Kg		103	68 - 121
1,2-Dichloroethane	50.0	55.1		ug/Kg		110	69 - 120
1,1-Dichloroethene	50.0	44.1		ug/Kg		88	58 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-208324/4
Matrix: Solid
Analysis Batch: 208324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	50.0	49.8		ug/Kg		100	70 - 120
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	70 - 124
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	70 - 120
1,3-Dichloropropane	50.0	52.0		ug/Kg		104	70 - 120
2,2-Dichloropropane	50.0	52.0		ug/Kg		104	67 - 125
1,1-Dichloropropene	50.0	50.6		ug/Kg		101	70 - 120
cis-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	70 - 120
trans-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	70 - 120
Ethylbenzene	50.0	50.1		ug/Kg		100	75 - 120
Hexachlorobutadiene	50.0	47.1		ug/Kg		94	65 - 135
Isopropylbenzene	50.0	48.6		ug/Kg		97	70 - 120
p-Isopropyltoluene	50.0	50.1		ug/Kg		100	70 - 120
Methylene Chloride	50.0	50.5		ug/Kg		101	65 - 125
Methyl tert-butyl ether	50.0	50.6		ug/Kg		101	58 - 122
Naphthalene	50.0	52.6		ug/Kg		105	55 - 132
N-Propylbenzene	50.0	50.3		ug/Kg		101	70 - 120
Styrene	50.0	51.7		ug/Kg		103	75 - 120
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	75 - 120
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/Kg		99	70 - 128
Tetrachloroethene	50.0	47.8		ug/Kg		96	70 - 123
Toluene	50.0	51.3		ug/Kg		103	70 - 120
1,2,3-Trichlorobenzene	50.0	51.9		ug/Kg		104	56 - 137
1,2,4-Trichlorobenzene	50.0	51.4		ug/Kg		103	65 - 121
1,1,1-Trichloroethane	50.0	50.4		ug/Kg		101	70 - 123
1,1,2-Trichloroethane	50.0	49.8		ug/Kg		100	69 - 120
Trichloroethene	50.0	49.7		ug/Kg		99	70 - 120
Trichlorofluoromethane	50.0	51.0		ug/Kg		102	63 - 134
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	70 - 120
1,2,4-Trimethylbenzene	50.0	51.0		ug/Kg		102	75 - 121
1,3,5-Trimethylbenzene	50.0	50.3		ug/Kg		101	75 - 123
Vinyl chloride	50.0	51.6		ug/Kg		103	62 - 138
Xylenes, Total	100	103		ug/Kg		103	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*
Toluene-d8 (Surr)	*99*		*75 - 120*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*
Dibromofluoromethane	*95*		*75 - 120*

Lab Sample ID: MB 500-208456/6
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.25	0.074	ug/Kg			10/24/13 10:40	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			10/24/13 10:40	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			10/24/13 10:40	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			10/24/13 10:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-208456/6
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.44		2.0	0.44	ug/Kg			10/24/13 10:40	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			10/24/13 10:40	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			10/24/13 10:40	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			10/24/13 10:40	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			10/24/13 10:40	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			10/24/13 10:40	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			10/24/13 10:40	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			10/24/13 10:40	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			10/24/13 10:40	1
Chloroform	<0.21		1.0	0.21	ug/Kg			10/24/13 10:40	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			10/24/13 10:40	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			10/24/13 10:40	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			10/24/13 10:40	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			10/24/13 10:40	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			10/24/13 10:40	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			10/24/13 10:40	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			10/24/13 10:40	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			10/24/13 10:40	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			10/24/13 10:40	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			10/24/13 10:40	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			10/24/13 10:40	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			10/24/13 10:40	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			10/24/13 10:40	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			10/24/13 10:40	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			10/24/13 10:40	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			10/24/13 10:40	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			10/24/13 10:40	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			10/24/13 10:40	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			10/24/13 10:40	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			10/24/13 10:40	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			10/24/13 10:40	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			10/24/13 10:40	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			10/24/13 10:40	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			10/24/13 10:40	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			10/24/13 10:40	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			10/24/13 10:40	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			10/24/13 10:40	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			10/24/13 10:40	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			10/24/13 10:40	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			10/24/13 10:40	1
Styrene	<0.099		1.0	0.099	ug/Kg			10/24/13 10:40	1
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			10/24/13 10:40	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			10/24/13 10:40	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			10/24/13 10:40	1
Toluene	<0.12		0.25	0.12	ug/Kg			10/24/13 10:40	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			10/24/13 10:40	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			10/24/13 10:40	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			10/24/13 10:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-208456/6
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			10/24/13 10:40	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			10/24/13 10:40	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			10/24/13 10:40	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			10/24/13 10:40	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/24/13 10:40	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/24/13 10:40	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			10/24/13 10:40	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			10/24/13 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*		*10/24/13 10:40*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*10/24/13 10:40*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*10/24/13 10:40*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*10/24/13 10:40*	*1*

Lab Sample ID: LCS 500-208456/4
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.6		ug/Kg		95	70 - 120
Bromobenzene	50.0	45.8		ug/Kg		92	70 - 120
Bromochloromethane	50.0	44.7		ug/Kg		89	67 - 122
Bromodichloromethane	50.0	45.1		ug/Kg		90	70 - 120
Bromoform	50.0	39.7		ug/Kg		79	70 - 125
Bromomethane	50.0	68.0		ug/Kg		136	50 - 150
n-Butylbenzene	50.0	52.6		ug/Kg		105	75 - 120
sec-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 120
tert-Butylbenzene	50.0	48.8		ug/Kg		98	70 - 120
Carbon tetrachloride	50.0	46.1		ug/Kg		92	70 - 125
Chlorobenzene	50.0	47.8		ug/Kg		96	70 - 120
Dibromochloromethane	50.0	42.3		ug/Kg		85	70 - 120
Chloroethane	50.0	57.3		ug/Kg		115	50 - 150
Chloroform	50.0	48.5		ug/Kg		97	70 - 120
Chloromethane	50.0	46.8		ug/Kg		94	50 - 134
2-Chlorotoluene	50.0	48.6		ug/Kg		97	70 - 120
4-Chlorotoluene	50.0	49.6		ug/Kg		99	70 - 120
1,2-Dibromo-3-Chloropropane	50.0	42.4		ug/Kg		85	60 - 121
1,2-Dibromoethane	50.0	44.3		ug/Kg		89	70 - 120
Dibromomethane	50.0	46.1		ug/Kg		92	70 - 120
1,2-Dichlorobenzene	50.0	47.4		ug/Kg		95	75 - 120
1,3-Dichlorobenzene	50.0	47.7		ug/Kg		95	70 - 120
1,4-Dichlorobenzene	50.0	47.8		ug/Kg		96	75 - 120
Dichlorodifluoromethane	50.0	44.5		ug/Kg		89	40 - 140
1,1-Dichloroethane	50.0	48.2		ug/Kg		96	68 - 121
1,2-Dichloroethane	50.0	50.1		ug/Kg		100	69 - 120
1,1-Dichloroethene	50.0	40.5		ug/Kg		81	58 - 122
cis-1,2-Dichloroethene	50.0	44.6		ug/Kg		89	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-208456/4
Matrix: Solid
Analysis Batch: 208456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	44.0		ug/Kg		88	70 - 124
1,2-Dichloropropane	50.0	46.1		ug/Kg		92	70 - 120
1,3-Dichloropropane	50.0	47.1		ug/Kg		94	70 - 120
2,2-Dichloropropane	50.0	52.4		ug/Kg		105	67 - 125
1,1-Dichloropropene	50.0	48.7		ug/Kg		97	70 - 120
cis-1,3-Dichloropropene	50.0	45.6		ug/Kg		91	70 - 120
trans-1,3-Dichloropropene	50.0	45.9		ug/Kg		92	70 - 120
Ethylbenzene	50.0	47.8		ug/Kg		96	75 - 120
Hexachlorobutadiene	50.0	46.3		ug/Kg		93	65 - 135
Isopropylbenzene	50.0	48.0		ug/Kg		96	70 - 120
p-Isopropyltoluene	50.0	50.2		ug/Kg		100	70 - 120
Methylene Chloride	50.0	45.5		ug/Kg		91	65 - 125
Methyl tert-butyl ether	50.0	44.5		ug/Kg		89	58 - 122
Naphthalene	50.0	45.6		ug/Kg		91	55 - 132
N-Propylbenzene	50.0	50.2		ug/Kg		100	70 - 120
Styrene	50.0	49.0		ug/Kg		98	75 - 120
1,1,1,2-Tetrachloroethane	50.0	44.6		ug/Kg		89	75 - 120
1,1,2,2-Tetrachloroethane	50.0	45.3		ug/Kg		91	70 - 128
Tetrachloroethene	50.0	45.5		ug/Kg		91	70 - 123
Toluene	50.0	48.1		ug/Kg		96	70 - 120
1,2,3-Trichlorobenzene	50.0	46.1		ug/Kg		92	56 - 137
1,2,4-Trichlorobenzene	50.0	46.6		ug/Kg		93	65 - 121
1,1,1-Trichloroethane	50.0	47.0		ug/Kg		94	70 - 123
1,1,2-Trichloroethane	50.0	45.9		ug/Kg		92	69 - 120
Trichloroethene	50.0	47.1		ug/Kg		94	70 - 120
Trichlorofluoromethane	50.0	47.9		ug/Kg		96	63 - 134
1,2,3-Trichloropropane	50.0	46.1		ug/Kg		92	70 - 120
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	75 - 121
1,3,5-Trimethylbenzene	50.0	49.7		ug/Kg		99	75 - 123
Vinyl chloride	50.0	47.7		ug/Kg		95	62 - 138
Xylenes, Total	100	97.9		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*
Toluene-d8 (Surr)	*98*		*75 - 120*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*
Dibromofluoromethane	*95*		*75 - 120*

Lab Chronicle

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Client Sample ID: EX-1 4'

Lab Sample ID: 500-65246-1

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 03:27	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: EX-2 2'

Lab Sample ID: 500-65246-2

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 03:52	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: EX-3 2'

Lab Sample ID: 500-65246-3

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 04:16	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: EX-4 2'

Lab Sample ID: 500-65246-4

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 04:41	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: EX-5 4'

Lab Sample ID: 500-65246-5

Date Collected: 10/16/13 11:00
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 05:06	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: Base

Lab Sample ID: 500-65246-6

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 05:31	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: North

Lab Sample ID: 500-65246-7

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 05:56	BDA	TAL CHI
Total/NA	Analysis	8260B		500	208324	10/24/13 06:20	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: South

Lab Sample ID: 500-65246-8

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 06:45	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: East

Lab Sample ID: 500-65246-9

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208324	10/24/13 07:10	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: West

Lab Sample ID: 500-65246-10

Date Collected: 10/16/13 15:30
Matrix: Solid
Date Received: 10/19/13 09:15
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208456	10/24/13 16:52	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	208096	10/22/13 09:13	CMV	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 10/16/13 15:30
Date Received: 10/19/13 09:15

Lab Sample ID: 500-65246-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			207824	10/16/13 15:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	208456	10/24/13 17:17	BDA	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - 4610

TestAmerica Job ID: 500-65246-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-14
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-14
South Carolina	State Program	4	77001	04-30-14
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534.

500-65246 COC

(optional)

Report To
Contact: Scott McCurdy
Company: Cedar Corp
Address: 604 Wilson Ave
Address: Menomonie, WI 54751
Phone: 715-235-9081
Fax:
E-Mail:

(optional)

Bill To
Contact: Same
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-65246

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 2.3

Client: Cedar Corp
Client Project #: 4610
Project Name: Village Clearings
Project Location/State: Menomonie, WI 54751
Lab Project #:
Sampler: Ryan Shafer
Lab PM: Sandie Fredrick

Preservative: 8/9
Parameter: VOC's

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC's	Comments
1		Ex-1 4'	10/16/13	1100	2	SO	X	
2		Ex-2 2'		1100				
3		Ex-3 2'		1100				
4		Ex-4 2'		1100				
5		Ex-5 4'		1100				
6		Base		1530				
7		North		1530				
8		South		1530				
9		East		1530				
10		West		1530				

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Cedar Corp	10/17/13	1630	[signature]	TA	10/19/13	0915
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped: FX
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:
1 Trip blank

TAL-4124-500 (1209)
10/29/2013

Login Sample Receipt Checklist

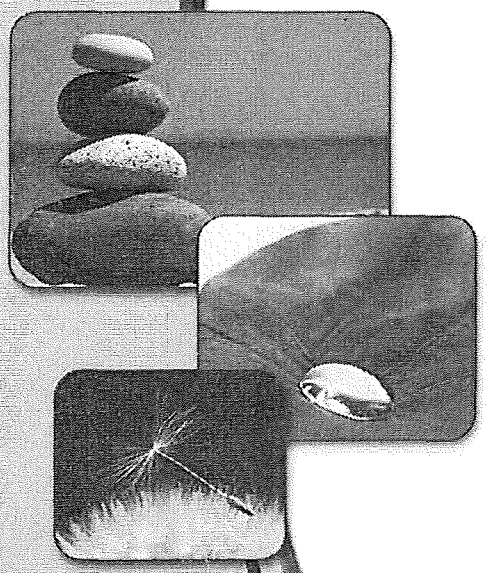
Client: Cedar Corporation

Job Number: 500-65246-1

Login Number: 65246
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.3
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-65339-1
Client Project/Site: Village Cleaners - N4610.004

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Scott McCurdy

Sandie Fredrick

Authorized for release by:
10/29/2013 7:09:59 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-65339-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-65339-1

Comments
No additional comments.

Receipt
The sample was received on 10/22/2013 10:05 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for batch 209033 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

No other analytical or quality issues were noted.

Detection Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - N4610.004

TestAmerica Job ID: 500-65339-1

Client Sample ID: V-6

Lab Sample ID: 500-65339-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	70		50	8.4	ug/Kg	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - N4610.004

TestAmerica Job ID: 500-65339-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - N4610.004

TestAmerica Job ID: 500-65339-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-65339-1	V-6	Solid	10/18/13 14:00	10/22/13 10:05

Client Sample ID: V-6
Date Collected: 10/18/13 14:00
Date Received: 10/22/13 10:05

Lab Sample ID: 500-65339-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<3.7		13	3.7	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Bromobenzene	<21		100	21	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Bromochloromethane	<19		100	19	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Bromodichloromethane	<17		100	17	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Bromoform	<22		100	22	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Bromomethane	<34	*	100	34	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
sec-Butylbenzene	<7.8		50	7.8	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Carbon tetrachloride	<13		50	13	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Dibromochloromethane	<17		100	17	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Chloroethane	<22		100	22	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Chloroform	<10		50	10	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Chloromethane	<23		100	23	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
2-Chlorotoluene	<10		50	10	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,2-Dibromoethane	<16		100	16	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Dibromomethane	<24		100	24	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,4-Dichlorobenzene	<8.8		100	8.8	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,2-Dichloroethane	<14		50	14	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,1-Dichloroethene	<15		50	15	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,2-Dichloropropane	<9.9		50	9.9	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
2,2-Dichloropropane	<16		50	16	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,1-Dichloropropene	<17		50	17	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
cis-1,3-Dichloropropene	<9.0		50	9.0	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Hexachlorobutadiene	<17		100	17	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Isopropylbenzene	<13		100	13	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Methylene Chloride	<34		250	34	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Naphthalene	<25		100	25	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Styrene	<5.0		50	5.0	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Tetrachloroethene	**70**		50	8.4	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Toluene	<5.8		13	5.8	ug/Kg		10/18/13 14:00	10/29/13 03:00	50

Client Sample ID: V-6
Date Collected: 10/18/13 14:00
Date Received: 10/22/13 10:05

Lab Sample ID: 500-65339-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Trichloroethene	<9.4		25	9.4	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Trichlorofluoromethane	<21		100	21	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		10/18/13 14:00	10/29/13 03:00	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		10/18/13 14:00	10/29/13 03:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 125*	*10/18/13 14:00*	*10/29/13 03:00*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*10/18/13 14:00*	*10/29/13 03:00*	*50*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*	*10/18/13 14:00*	*10/29/13 03:00*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*10/18/13 14:00*	*10/29/13 03:00*	*50*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 208710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65339-1	V-6	Total/NA	Solid	5035	
LB3 500-208710/2-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-208710/3-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 209033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65339-1	V-6	Total/NA	Solid	8260B	208710
LB3 500-208710/2-A LB3	Method Blank	Total/NA	Solid	8260B	208710
LCS 500-208710/3-A	Lab Control Sample	Total/NA	Solid	8260B	208710
LCS 500-209033/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-209033/6	Method Blank	Total/NA	Solid	8260B	

Surrogate Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - N4610.004

TestAmerica Job ID: 500-65339-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-65339-1	V-6	106	102	103	90
LB3 500-208710/2-A LB3	Method Blank	109	102	107	90
LCS 500-208710/3-A	Lab Control Sample	108	101	98	96
LCS 500-209033/4	Lab Control Sample	107	97	97	96
MB 500-209033/6	Method Blank	109	101	107	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-208710/2-A LB3
Matrix: Solid
Analysis Batch: 209033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208710

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<3.7		13	3.7	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Bromobenzene	<21		100	21	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Bromochloromethane	<19		100	19	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Bromodichloromethane	<17		100	17	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Bromoform	<22		100	22	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Bromomethane	<34		100	34	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Carbon tetrachloride	<13		50	13	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Dibromochloromethane	<17		100	17	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Chloroethane	<22		100	22	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Chloroform	<10		50	10	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Chloromethane	<23		100	23	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
2-Chlorotoluene	<10		50	10	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,2-Dibromoethane	<16		100	16	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Dibromomethane	<24		100	24	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,2-Dichloroethane	<14		50	14	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,1-Dichloroethene	<15		50	15	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
2,2-Dichloropropane	<16		50	16	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,1-Dichloropropene	<17		50	17	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Hexachlorobutadiene	<17		100	17	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Isopropylbenzene	<13		100	13	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Methylene Chloride	<34		250	34	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Naphthalene	<25		100	25	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Styrene	<4.9		50	4.9	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		10/25/13 10:00	10/29/13 06:19	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-208710/2-A LB3
Matrix: Solid
Analysis Batch: 209033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208710

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<5.8		13	5.8	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Trichloroethene	<9.3		25	9.3	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Trichlorofluoromethane	<21		100	21	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		10/25/13 10:00	10/29/13 06:19	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		10/25/13 10:00	10/29/13 06:19	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 125*	*10/25/13 10:00*	*10/29/13 06:19*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*10/25/13 10:00*	*10/29/13 06:19*	*50*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*	*10/25/13 10:00*	*10/29/13 06:19*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*10/25/13 10:00*	*10/29/13 06:19*	*50*

Lab Sample ID: LCS 500-208710/3-A
Matrix: Solid
Analysis Batch: 209033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2500	2410		ug/Kg		96	70 - 120
Bromobenzene	2500	2410		ug/Kg		97	70 - 120
Bromochloromethane	2500	2310		ug/Kg		93	67 - 122
Bromodichloromethane	2500	2300		ug/Kg		92	70 - 120
Bromoform	2500	2030		ug/Kg		81	70 - 125
Bromomethane	2500	3320		ug/Kg		133	50 - 150
n-Butylbenzene	2500	2340		ug/Kg		93	75 - 120
sec-Butylbenzene	2500	2490		ug/Kg		100	70 - 120
tert-Butylbenzene	2500	2550		ug/Kg		102	70 - 120
Carbon tetrachloride	2500	2200		ug/Kg		88	70 - 125
Chlorobenzene	2500	2330		ug/Kg		93	70 - 120
Dibromochloromethane	2500	2130		ug/Kg		85	70 - 120
Chloroethane	2500	2790		ug/Kg		112	50 - 150
Chloroform	2500	2450		ug/Kg		98	70 - 120
Chloromethane	2500	1680		ug/Kg		67	50 - 134
2-Chlorotoluene	2500	2460		ug/Kg		98	70 - 120
4-Chlorotoluene	2500	2410		ug/Kg		96	70 - 120
1,2-Dibromo-3-Chloropropane	2500	2120		ug/Kg		85	60 - 121
1,2-Dibromoethane	2500	2320		ug/Kg		93	70 - 120
Dibromomethane	2500	2460		ug/Kg		98	70 - 120
1,2-Dichlorobenzene	2500	2450		ug/Kg		98	75 - 120
1,3-Dichlorobenzene	2500	2320		ug/Kg		93	70 - 120
1,4-Dichlorobenzene	2500	2280		ug/Kg		91	75 - 120
Dichlorodifluoromethane	2500	1320		ug/Kg		53	40 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-208710/3-A
Matrix: Solid
Analysis Batch: 209033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	2500	2440		ug/Kg		98	68 - 121
1,2-Dichloroethane	2500	2630		ug/Kg		105	69 - 120
1,1-Dichloroethene	2500	2070		ug/Kg		83	58 - 122
cis-1,2-Dichloroethene	2500	2240		ug/Kg		90	70 - 120
trans-1,2-Dichloroethene	2500	2230		ug/Kg		89	70 - 124
1,2-Dichloropropane	2500	2410		ug/Kg		96	70 - 120
1,3-Dichloropropane	2500	2470		ug/Kg		99	70 - 120
2,2-Dichloropropane	2500	2390		ug/Kg		96	67 - 125
1,1-Dichloropropene	2500	2350		ug/Kg		94	70 - 120
cis-1,3-Dichloropropene	2500	2310		ug/Kg		92	70 - 120
trans-1,3-Dichloropropene	2500	2240		ug/Kg		90	70 - 120
Ethylbenzene	2500	2300		ug/Kg		92	75 - 120
Hexachlorobutadiene	2500	2190		ug/Kg		88	65 - 135
Isopropylbenzene	2500	2470		ug/Kg		99	70 - 120
p-Isopropyltoluene	2500	2400		ug/Kg		96	70 - 120
Methylene Chloride	2500	2360		ug/Kg		94	65 - 125
Methyl tert-butyl ether	2500	2420		ug/Kg		97	58 - 122
Naphthalene	2500	2510		ug/Kg		101	55 - 132
N-Propylbenzene	2500	2450		ug/Kg		98	70 - 120
Styrene	2500	2360		ug/Kg		94	75 - 120
1,1,1,2-Tetrachloroethane	2500	2310		ug/Kg		92	75 - 120
1,1,2,2-Tetrachloroethane	2500	2490		ug/Kg		100	70 - 128
Tetrachloroethene	2500	2200		ug/Kg		88	70 - 123
Toluene	2500	2440		ug/Kg		98	70 - 120
1,2,3-Trichlorobenzene	2500	2330		ug/Kg		93	56 - 137
1,2,4-Trichlorobenzene	2500	2110		ug/Kg		85	65 - 121
1,1,1-Trichloroethane	2500	2320		ug/Kg		93	70 - 123
1,1,2-Trichloroethane	2500	2400		ug/Kg		96	69 - 120
Trichloroethene	2500	2310		ug/Kg		92	70 - 120
Trichlorofluoromethane	2500	1990		ug/Kg		80	63 - 134
1,2,3-Trichloropropane	2500	2430		ug/Kg		97	70 - 120
1,2,4-Trimethylbenzene	2500	2470		ug/Kg		99	75 - 121
1,3,5-Trimethylbenzene	2500	2490		ug/Kg		100	75 - 123
Vinyl chloride	2500	1750		ug/Kg		70	62 - 138
Xylenes, Total	5000	4770		ug/Kg		95	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 125*
Toluene-d8 (Surr)	*101*		*75 - 120*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*
Dibromofluoromethane	*96*		*75 - 120*

Lab Sample ID: MB 500-209033/6
Matrix: Solid
Analysis Batch: 209033

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.25	0.074	ug/Kg			10/28/13 22:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-209033/6
Matrix: Solid
Analysis Batch: 209033

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.43		2.0	0.43	ug/Kg			10/28/13 22:28	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			10/28/13 22:28	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			10/28/13 22:28	1
Bromoform	<0.44		2.0	0.44	ug/Kg			10/28/13 22:28	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			10/28/13 22:28	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			10/28/13 22:28	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			10/28/13 22:28	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			10/28/13 22:28	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			10/28/13 22:28	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			10/28/13 22:28	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			10/28/13 22:28	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			10/28/13 22:28	1
Chloroform	<0.21		1.0	0.21	ug/Kg			10/28/13 22:28	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			10/28/13 22:28	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			10/28/13 22:28	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			10/28/13 22:28	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			10/28/13 22:28	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			10/28/13 22:28	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			10/28/13 22:28	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			10/28/13 22:28	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			10/28/13 22:28	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			10/28/13 22:28	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			10/28/13 22:28	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			10/28/13 22:28	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			10/28/13 22:28	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			10/28/13 22:28	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			10/28/13 22:28	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			10/28/13 22:28	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			10/28/13 22:28	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			10/28/13 22:28	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			10/28/13 22:28	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			10/28/13 22:28	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			10/28/13 22:28	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			10/28/13 22:28	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			10/28/13 22:28	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			10/28/13 22:28	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			10/28/13 22:28	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			10/28/13 22:28	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			10/28/13 22:28	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			10/28/13 22:28	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			10/28/13 22:28	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			10/28/13 22:28	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			10/28/13 22:28	1
Styrene	<0.099		1.0	0.099	ug/Kg			10/28/13 22:28	1
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			10/28/13 22:28	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			10/28/13 22:28	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			10/28/13 22:28	1
Toluene	<0.12		0.25	0.12	ug/Kg			10/28/13 22:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-209033/6
Matrix: Solid
Analysis Batch: 209033

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			10/28/13 22:28	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			10/28/13 22:28	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			10/28/13 22:28	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			10/28/13 22:28	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			10/28/13 22:28	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			10/28/13 22:28	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			10/28/13 22:28	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/28/13 22:28	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/28/13 22:28	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			10/28/13 22:28	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			10/28/13 22:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 125*		*10/28/13 22:28*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*10/28/13 22:28*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*		*10/28/13 22:28*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*10/28/13 22:28*	*1*

Lab Sample ID: LCS 500-209033/4
Matrix: Solid
Analysis Batch: 209033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.6		ug/Kg		103	70 - 120
Bromobenzene	50.0	51.1		ug/Kg		102	70 - 120
Bromochloromethane	50.0	49.3		ug/Kg		99	67 - 122
Bromodichloromethane	50.0	51.4		ug/Kg		103	70 - 120
Bromoform	50.0	45.8		ug/Kg		92	70 - 125
Bromomethane	50.0	77.5	*	ug/Kg		155	50 - 150
n-Butylbenzene	50.0	53.8		ug/Kg		108	75 - 120
sec-Butylbenzene	50.0	53.7		ug/Kg		107	70 - 120
tert-Butylbenzene	50.0	52.0		ug/Kg		104	70 - 120
Carbon tetrachloride	50.0	49.1		ug/Kg		98	70 - 125
Chlorobenzene	50.0	51.1		ug/Kg		102	70 - 120
Dibromochloromethane	50.0	46.9		ug/Kg		94	70 - 120
Chloroethane	50.0	64.3		ug/Kg		129	50 - 150
Chloroform	50.0	52.9		ug/Kg		106	70 - 120
Chloromethane	50.0	49.5		ug/Kg		99	50 - 134
2-Chlorotoluene	50.0	53.0		ug/Kg		106	70 - 120
4-Chlorotoluene	50.0	53.1		ug/Kg		106	70 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.1		ug/Kg		94	60 - 121
1,2-Dibromoethane	50.0	49.6		ug/Kg		99	70 - 120
Dibromomethane	50.0	51.6		ug/Kg		103	70 - 120
1,2-Dichlorobenzene	50.0	52.7		ug/Kg		105	75 - 120
1,3-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 120
1,4-Dichlorobenzene	50.0	51.1		ug/Kg		102	75 - 120
Dichlorodifluoromethane	50.0	47.8		ug/Kg		96	40 - 140
1,1-Dichloroethane	50.0	52.8		ug/Kg		106	68 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-209033/4
Matrix: Solid
Analysis Batch: 209033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	56.2		ug/Kg		112	69 - 120
1,1-Dichloroethene	50.0	45.0		ug/Kg		90	58 - 122
cis-1,2-Dichloroethene	50.0	49.8		ug/Kg		100	70 - 120
trans-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	70 - 124
1,2-Dichloropropane	50.0	52.6		ug/Kg		105	70 - 120
1,3-Dichloropropane	50.0	53.1		ug/Kg		106	70 - 120
2,2-Dichloropropane	50.0	54.4		ug/Kg		109	67 - 125
1,1-Dichloropropene	50.0	51.4		ug/Kg		103	70 - 120
cis-1,3-Dichloropropene	50.0	50.6		ug/Kg		101	70 - 120
trans-1,3-Dichloropropene	50.0	51.4		ug/Kg		103	70 - 120
Ethylbenzene	50.0	51.5		ug/Kg		103	75 - 120
Hexachlorobutadiene	50.0	48.7		ug/Kg		97	65 - 135
Isopropylbenzene	50.0	51.6		ug/Kg		103	70 - 120
p-Isopropyltoluene	50.0	53.3		ug/Kg		107	70 - 120
Methylene Chloride	50.0	50.4		ug/Kg		101	65 - 125
Methyl tert-butyl ether	50.0	51.2		ug/Kg		102	58 - 122
Naphthalene	50.0	55.7		ug/Kg		111	55 - 132
N-Propylbenzene	50.0	53.3		ug/Kg		107	70 - 120
Styrene	50.0	52.8		ug/Kg		106	75 - 120
1,1,1,2-Tetrachloroethane	50.0	49.3		ug/Kg		99	75 - 120
1,1,2,2-Tetrachloroethane	50.0	53.2		ug/Kg		106	70 - 128
Tetrachloroethene	50.0	48.0		ug/Kg		96	70 - 123
Toluene	50.0	52.1		ug/Kg		104	70 - 120
1,2,3-Trichlorobenzene	50.0	53.8		ug/Kg		108	56 - 137
1,2,4-Trichlorobenzene	50.0	52.9		ug/Kg		106	65 - 121
1,1,1-Trichloroethane	50.0	51.1		ug/Kg		102	70 - 123
1,1,2-Trichloroethane	50.0	51.6		ug/Kg		103	69 - 120
Trichloroethene	50.0	50.5		ug/Kg		101	70 - 120
Trichlorofluoromethane	50.0	50.8		ug/Kg		102	63 - 134
1,2,3-Trichloropropane	50.0	53.8		ug/Kg		108	70 - 120
1,2,4-Trimethylbenzene	50.0	53.7		ug/Kg		107	75 - 121
1,3,5-Trimethylbenzene	50.0	53.0		ug/Kg		106	75 - 123
Vinyl chloride	50.0	48.3		ug/Kg		97	62 - 138
Xylenes, Total	100	104		ug/Kg		104	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*
Toluene-d8 (Surr)	*97*		*75 - 120*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*
Dibromofluoromethane	*96*		*75 - 120*

Lab Chronicle

Client: Cedar Corporation
Project/Site: Village Cleaners - N4610.004

TestAmerica Job ID: 500-65339-1

Client Sample ID: V-6
Date Collected: 10/18/13 14:00
Date Received: 10/22/13 10:05

Lab Sample ID: 500-65339-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			208710	10/18/13 14:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	209033	10/29/13 03:00	BDA	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Cedar Corporation
Project/Site: Village Cleaners - N4610.004

TestAmerica Job ID: 500-65339-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-14
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-14
South Carolina	State Program	4	77001	04-30-14
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-65339 COC

Chain of Custody Record

Lab Job #: 500-65339

Chain of Custody Number:

Page _____ of _____

Temperature °C of Cooler: 3.1

(optional)

Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact: S. McCurdy
Company: Cedar
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: Cedar
Client Project #: N4610.004
Project Name: Village Cleaners
Project Location/State: Menomonie
Lab Project #:
Sampler: Scott McCurdy
Lab PM:
Preservative: MeOH
Parameter: J VOC

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Comments
1		V-6	10/18/13	2:00	1	SO	J

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Cedar	10/21/13	8:00AM	[signature]	TA-ATL	10/22/13	1005
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped: FedEx
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-65339-1

Login Number: 65339

List Number: 1

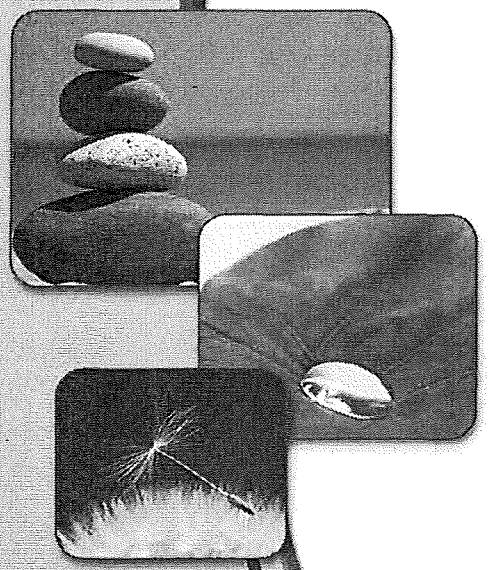
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix H

Ground Water Analytical Reports



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-62900-1
Client Project/Site: Village Cleaners

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Scott McCurdy

Sandie Fredrick

Authorized for release by:
9/25/2013 11:44:50 AM

Sandie Fredrick, Project Manager I
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-62900-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-62900-1

Comments
No additional comments.

Receipt
The samples were received on 9/12/2013 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 0.4° C.

GC/MS VOA
No analytical or quality issues were noted.

Detection Summary

Client: Cedar Corporation
Project/Site: Village Cleaners

TestAmerica Job ID: 500-62900-1

Client Sample ID: MW-1 — Lab Sample ID: 500-62900-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	160		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 500-62900-2

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 500-62900-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.76	J	1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 500-62900-4

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 500-62900-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	72		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 500-62900-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.2		1.0	0.20	ug/L	1		8260B	Total/NA
Tetrachloroethene	100		1.0	0.17	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Cedar Corporation
Project/Site: Village Cleaners

TestAmerica Job ID: 500-62900-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Cedar Corporation
Project/Site: Village Cleaners

TestAmerica Job ID: 500-62900-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-62900-1	MW-1	Water	09/09/13 10:45	09/12/13 09:00
500-62900-2	MW-2	Water	09/09/13 11:15	09/12/13 09:00
500-62900-3	MW-3	Water	09/09/13 11:45	09/12/13 09:00
500-62900-4	MW-4	Water	09/09/13 12:15	09/12/13 09:00
500-62900-5	MW-5	Water	09/09/13 12:45	09/12/13 09:00
500-62900-6	MW-6	Water	09/09/13 13:15	09/12/13 09:00

Client Sample ID: MW-1
Date Collected: 09/09/13 10:45
Date Received: 09/12/13 09:00

Lab Sample ID: 500-62900-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.50	0.074	ug/L			09/18/13 12:31	1
Bromobenzene	<0.25		1.0	0.25	ug/L			09/18/13 12:31	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			09/18/13 12:31	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			09/18/13 12:31	1
Bromoform	<0.28		1.0	0.28	ug/L			09/18/13 12:31	1
Bromomethane	<0.31		1.0	0.31	ug/L			09/18/13 12:31	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 12:31	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			09/18/13 12:31	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 12:31	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			09/18/13 12:31	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			09/18/13 12:31	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			09/18/13 12:31	1
Chloroethane	<0.34		1.0	0.34	ug/L			09/18/13 12:31	1
Chloroform	<0.20		1.0	0.20	ug/L			09/18/13 12:31	1
Chloromethane	<0.18		1.0	0.18	ug/L			09/18/13 12:31	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			09/18/13 12:31	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			09/18/13 12:31	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			09/18/13 12:31	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			09/18/13 12:31	1
Dibromomethane	<0.33		1.0	0.33	ug/L			09/18/13 12:31	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			09/18/13 12:31	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 12:31	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 12:31	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			09/18/13 12:31	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			09/18/13 12:31	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 12:31	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			09/18/13 12:31	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			09/18/13 12:31	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			09/18/13 12:31	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			09/18/13 12:31	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			09/18/13 12:31	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			09/18/13 12:31	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			09/18/13 12:31	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			09/18/13 12:31	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			09/18/13 12:31	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			09/18/13 12:31	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			09/18/13 12:31	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			09/18/13 12:31	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 12:31	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			09/18/13 12:31	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			09/18/13 12:31	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			09/18/13 12:31	1
Naphthalene	<0.16		1.0	0.16	ug/L			09/18/13 12:31	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 12:31	1
Styrene	<0.10		1.0	0.10	ug/L			09/18/13 12:31	1
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			09/18/13 12:31	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			09/18/13 12:31	1
Tetrachloroethene	**160**		1.0	0.17	ug/L			09/18/13 12:31	1
Toluene	<0.11		0.50	0.11	ug/L			09/18/13 12:31	1

Client Sample ID: MW-1

Lab Sample ID: 500-62900-1

Date Collected: 09/09/13 10:45
Matrix: Water
Date Received: 09/12/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			09/18/13 12:31	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			09/18/13 12:31	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			09/18/13 12:31	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 12:31	1
Trichloroethene	<0.19		0.50	0.19	ug/L			09/18/13 12:31	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			09/18/13 12:31	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			09/18/13 12:31	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 12:31	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			09/18/13 12:31	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			09/18/13 12:31	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			09/18/13 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 125*		*09/18/13 12:31*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*09/18/13 12:31*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*		*09/18/13 12:31*	*1*
Dibromofluoromethane	*84*		*75 - 120*		*09/18/13 12:31*	*1*

Client Sample ID: MW-2

Lab Sample ID: 500-62900-2

Date Collected: 09/09/13 11:15
Matrix: Water
Date Received: 09/12/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.50	0.074	ug/L			09/18/13 12:55	1
Bromobenzene	<0.25		1.0	0.25	ug/L			09/18/13 12:55	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			09/18/13 12:55	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			09/18/13 12:55	1
Bromoform	<0.28		1.0	0.28	ug/L			09/18/13 12:55	1
Bromomethane	<0.31		1.0	0.31	ug/L			09/18/13 12:55	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 12:55	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			09/18/13 12:55	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 12:55	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			09/18/13 12:55	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			09/18/13 12:55	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			09/18/13 12:55	1
Chloroethane	<0.34		1.0	0.34	ug/L			09/18/13 12:55	1
Chloroform	<0.20		1.0	0.20	ug/L			09/18/13 12:55	1
Chloromethane	<0.18		1.0	0.18	ug/L			09/18/13 12:55	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			09/18/13 12:55	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			09/18/13 12:55	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			09/18/13 12:55	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			09/18/13 12:55	1
Dibromomethane	<0.33		1.0	0.33	ug/L			09/18/13 12:55	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			09/18/13 12:55	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 12:55	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 12:55	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			09/18/13 12:55	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			09/18/13 12:55	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 12:55	1

Client Sample ID: MW-2

Lab Sample ID: 500-62900-2

Date Collected: 09/09/13 11:15
Matrix: Water
Date Received: 09/12/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			09/18/13 12:55	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			09/18/13 12:55	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			09/18/13 12:55	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			09/18/13 12:55	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			09/18/13 12:55	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			09/18/13 12:55	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			09/18/13 12:55	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			09/18/13 12:55	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			09/18/13 12:55	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			09/18/13 12:55	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			09/18/13 12:55	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			09/18/13 12:55	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 12:55	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			09/18/13 12:55	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			09/18/13 12:55	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			09/18/13 12:55	1
Naphthalene	<0.16		1.0	0.16	ug/L			09/18/13 12:55	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 12:55	1
Styrene	<0.10		1.0	0.10	ug/L			09/18/13 12:55	1
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			09/18/13 12:55	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			09/18/13 12:55	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			09/18/13 12:55	1
Toluene	<0.11		0.50	0.11	ug/L			09/18/13 12:55	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			09/18/13 12:55	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			09/18/13 12:55	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			09/18/13 12:55	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 12:55	1
Trichloroethene	<0.19		0.50	0.19	ug/L			09/18/13 12:55	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			09/18/13 12:55	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			09/18/13 12:55	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 12:55	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			09/18/13 12:55	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			09/18/13 12:55	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			09/18/13 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*		*09/18/13 12:55*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*09/18/13 12:55*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*09/18/13 12:55*	*1*
Dibromofluoromethane	*84*		*75 - 120*		*09/18/13 12:55*	*1*

Client Sample ID: MW-3

Lab Sample ID: 500-62900-3

Date Collected: 09/09/13 11:45
Matrix: Water
Date Received: 09/12/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.50	0.074	ug/L			09/18/13 13:20	1
Bromobenzene	<0.25		1.0	0.25	ug/L			09/18/13 13:20	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			09/18/13 13:20	1

Client Sample ID: MW-3
Date Collected: 09/09/13 11:45
Date Received: 09/12/13 09:00

Lab Sample ID: 500-62900-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.17		1.0	0.17	ug/L			09/18/13 13:20	1
Bromoform	<0.28		1.0	0.28	ug/L			09/18/13 13:20	1
Bromomethane	<0.31		1.0	0.31	ug/L			09/18/13 13:20	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 13:20	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			09/18/13 13:20	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 13:20	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			09/18/13 13:20	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			09/18/13 13:20	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			09/18/13 13:20	1
Chloroethane	<0.34		1.0	0.34	ug/L			09/18/13 13:20	1
Chloroform	<0.20		1.0	0.20	ug/L			09/18/13 13:20	1
Chloromethane	<0.18		1.0	0.18	ug/L			09/18/13 13:20	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			09/18/13 13:20	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			09/18/13 13:20	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			09/18/13 13:20	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			09/18/13 13:20	1
Dibromomethane	<0.33		1.0	0.33	ug/L			09/18/13 13:20	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			09/18/13 13:20	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 13:20	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 13:20	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			09/18/13 13:20	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			09/18/13 13:20	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 13:20	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			09/18/13 13:20	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			09/18/13 13:20	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			09/18/13 13:20	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			09/18/13 13:20	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			09/18/13 13:20	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			09/18/13 13:20	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			09/18/13 13:20	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			09/18/13 13:20	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			09/18/13 13:20	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			09/18/13 13:20	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			09/18/13 13:20	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			09/18/13 13:20	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 13:20	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			09/18/13 13:20	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			09/18/13 13:20	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			09/18/13 13:20	1
Naphthalene	<0.16		1.0	0.16	ug/L			09/18/13 13:20	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 13:20	1
Styrene	<0.10		1.0	0.10	ug/L			09/18/13 13:20	1
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			09/18/13 13:20	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			09/18/13 13:20	1
Tetrachloroethene	**0.76**	J	1.0	0.17	ug/L			09/18/13 13:20	1
Toluene	<0.11		0.50	0.11	ug/L			09/18/13 13:20	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			09/18/13 13:20	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			09/18/13 13:20	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			09/18/13 13:20	1

Client Sample ID: MW-3 — **Lab Sample ID: 500-62900-3**
Date Collected: 09/09/13 11:45 — **Matrix: Water**
Date Received: 09/12/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 13:20	1
Trichloroethene	<0.19		0.50	0.19	ug/L			09/18/13 13:20	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			09/18/13 13:20	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			09/18/13 13:20	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 13:20	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			09/18/13 13:20	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			09/18/13 13:20	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			09/18/13 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*		*09/18/13 13:20*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*09/18/13 13:20*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*		*09/18/13 13:20*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*09/18/13 13:20*	*1*

Client Sample ID: MW-4 — **Lab Sample ID: 500-62900-4**
Date Collected: 09/09/13 12:15 — **Matrix: Water**
Date Received: 09/12/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.50	0.074	ug/L			09/18/13 13:44	1
Bromobenzene	<0.25		1.0	0.25	ug/L			09/18/13 13:44	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			09/18/13 13:44	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			09/18/13 13:44	1
Bromoform	<0.28		1.0	0.28	ug/L			09/18/13 13:44	1
Bromomethane	<0.31		1.0	0.31	ug/L			09/18/13 13:44	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 13:44	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			09/18/13 13:44	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 13:44	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			09/18/13 13:44	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			09/18/13 13:44	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			09/18/13 13:44	1
Chloroethane	<0.34		1.0	0.34	ug/L			09/18/13 13:44	1
Chloroform	<0.20		1.0	0.20	ug/L			09/18/13 13:44	1
Chloromethane	<0.18		1.0	0.18	ug/L			09/18/13 13:44	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			09/18/13 13:44	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			09/18/13 13:44	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			09/18/13 13:44	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			09/18/13 13:44	1
Dibromomethane	<0.33		1.0	0.33	ug/L			09/18/13 13:44	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			09/18/13 13:44	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 13:44	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 13:44	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			09/18/13 13:44	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			09/18/13 13:44	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 13:44	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			09/18/13 13:44	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			09/18/13 13:44	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			09/18/13 13:44	1

Client Sample ID: MW-4
Date Collected: 09/09/13 12:15
Date Received: 09/12/13 09:00

Lab Sample ID: 500-62900-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			09/18/13 13:44	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			09/18/13 13:44	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			09/18/13 13:44	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			09/18/13 13:44	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			09/18/13 13:44	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			09/18/13 13:44	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			09/18/13 13:44	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			09/18/13 13:44	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			09/18/13 13:44	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 13:44	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			09/18/13 13:44	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			09/18/13 13:44	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			09/18/13 13:44	1
Naphthalene	<0.16		1.0	0.16	ug/L			09/18/13 13:44	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 13:44	1
Styrene	<0.10		1.0	0.10	ug/L			09/18/13 13:44	1
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			09/18/13 13:44	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			09/18/13 13:44	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			09/18/13 13:44	1
Toluene	<0.11		0.50	0.11	ug/L			09/18/13 13:44	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			09/18/13 13:44	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			09/18/13 13:44	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			09/18/13 13:44	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 13:44	1
Trichloroethene	<0.19		0.50	0.19	ug/L			09/18/13 13:44	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			09/18/13 13:44	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			09/18/13 13:44	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 13:44	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			09/18/13 13:44	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			09/18/13 13:44	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			09/18/13 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*		*09/18/13 13:44*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*09/18/13 13:44*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*09/18/13 13:44*	*1*
Dibromofluoromethane	*85*		*75 - 120*		*09/18/13 13:44*	*1*

Client Sample ID: MW-5
Date Collected: 09/09/13 12:45
Date Received: 09/12/13 09:00

Lab Sample ID: 500-62900-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.50	0.074	ug/L			09/18/13 14:09	1
Bromobenzene	<0.25		1.0	0.25	ug/L			09/18/13 14:09	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			09/18/13 14:09	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			09/18/13 14:09	1
Bromoform	<0.28		1.0	0.28	ug/L			09/18/13 14:09	1
Bromomethane	<0.31		1.0	0.31	ug/L			09/18/13 14:09	1

Client Sample ID: MW-5
Date Collected: 09/09/13 12:45
Date Received: 09/12/13 09:00

Lab Sample ID: 500-62900-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 14:09	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			09/18/13 14:09	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 14:09	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			09/18/13 14:09	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			09/18/13 14:09	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			09/18/13 14:09	1
Chloroethane	<0.34		1.0	0.34	ug/L			09/18/13 14:09	1
Chloroform	<0.20		1.0	0.20	ug/L			09/18/13 14:09	1
Chloromethane	<0.18		1.0	0.18	ug/L			09/18/13 14:09	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			09/18/13 14:09	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			09/18/13 14:09	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			09/18/13 14:09	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			09/18/13 14:09	1
Dibromomethane	<0.33		1.0	0.33	ug/L			09/18/13 14:09	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			09/18/13 14:09	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 14:09	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 14:09	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			09/18/13 14:09	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			09/18/13 14:09	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 14:09	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			09/18/13 14:09	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			09/18/13 14:09	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			09/18/13 14:09	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			09/18/13 14:09	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			09/18/13 14:09	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			09/18/13 14:09	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			09/18/13 14:09	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			09/18/13 14:09	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			09/18/13 14:09	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			09/18/13 14:09	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			09/18/13 14:09	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			09/18/13 14:09	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 14:09	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			09/18/13 14:09	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			09/18/13 14:09	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			09/18/13 14:09	1
Naphthalene	<0.16		1.0	0.16	ug/L			09/18/13 14:09	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 14:09	1
Styrene	<0.10		1.0	0.10	ug/L			09/18/13 14:09	1
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			09/18/13 14:09	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			09/18/13 14:09	1
Tetrachloroethene	**72**		1.0	0.17	ug/L			09/18/13 14:09	1
Toluene	<0.11		0.50	0.11	ug/L			09/18/13 14:09	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			09/18/13 14:09	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			09/18/13 14:09	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			09/18/13 14:09	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 14:09	1
Trichloroethene	<0.19		0.50	0.19	ug/L			09/18/13 14:09	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			09/18/13 14:09	1

Client Sample ID: MW-5

Lab Sample ID: 500-62900-5

Date Collected: 09/09/13 12:45
Matrix: Water
Date Received: 09/12/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			09/18/13 14:09	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 14:09	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			09/18/13 14:09	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			09/18/13 14:09	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			09/18/13 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 125*		*09/18/13 14:09*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*09/18/13 14:09*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*		*09/18/13 14:09*	*1*
Dibromofluoromethane	*84*		*75 - 120*		*09/18/13 14:09*	*1*

Client Sample ID: MW-6

Lab Sample ID: 500-62900-6

Date Collected: 09/09/13 13:15
Matrix: Water
Date Received: 09/12/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.50	0.074	ug/L			09/18/13 14:33	1
Bromobenzene	<0.25		1.0	0.25	ug/L			09/18/13 14:33	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			09/18/13 14:33	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			09/18/13 14:33	1
Bromoform	<0.28		1.0	0.28	ug/L			09/18/13 14:33	1
Bromomethane	<0.31		1.0	0.31	ug/L			09/18/13 14:33	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 14:33	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			09/18/13 14:33	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 14:33	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			09/18/13 14:33	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			09/18/13 14:33	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			09/18/13 14:33	1
Chloroethane	<0.34		1.0	0.34	ug/L			09/18/13 14:33	1
Chloroform	**1.2**		1.0	0.20	ug/L			09/18/13 14:33	1
Chloromethane	<0.18		1.0	0.18	ug/L			09/18/13 14:33	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			09/18/13 14:33	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			09/18/13 14:33	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			09/18/13 14:33	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			09/18/13 14:33	1
Dibromomethane	<0.33		1.0	0.33	ug/L			09/18/13 14:33	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			09/18/13 14:33	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 14:33	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 14:33	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			09/18/13 14:33	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			09/18/13 14:33	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 14:33	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			09/18/13 14:33	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			09/18/13 14:33	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			09/18/13 14:33	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			09/18/13 14:33	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			09/18/13 14:33	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			09/18/13 14:33	1

Client Sample ID: MW-6

Date Collected: 09/09/13 13:15
Date Received: 09/12/13 09:00

Lab Sample ID: 500-62900-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			09/18/13 14:33	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			09/18/13 14:33	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			09/18/13 14:33	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			09/18/13 14:33	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			09/18/13 14:33	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			09/18/13 14:33	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 14:33	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			09/18/13 14:33	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			09/18/13 14:33	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			09/18/13 14:33	1
Naphthalene	<0.16		1.0	0.16	ug/L			09/18/13 14:33	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 14:33	1
Styrene	<0.10		1.0	0.10	ug/L			09/18/13 14:33	1
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			09/18/13 14:33	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			09/18/13 14:33	1
Tetrachloroethene	**100**		1.0	0.17	ug/L			09/18/13 14:33	1
Toluene	<0.11		0.50	0.11	ug/L			09/18/13 14:33	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			09/18/13 14:33	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			09/18/13 14:33	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			09/18/13 14:33	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 14:33	1
Trichloroethene	<0.19		0.50	0.19	ug/L			09/18/13 14:33	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			09/18/13 14:33	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			09/18/13 14:33	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 14:33	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			09/18/13 14:33	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			09/18/13 14:33	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			09/18/13 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 125*		*09/18/13 14:33*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*09/18/13 14:33*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*09/18/13 14:33*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*09/18/13 14:33*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Cedar Corporation
Project/Site: Village Cleaners

TestAmerica Job ID: 500-62900-1

GC/MS VOA

Analysis Batch: 203087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-62900-1	MW-1	Total/NA	Water	8260B	
500-62900-2	MW-2	Total/NA	Water	8260B	
500-62900-3	MW-3	Total/NA	Water	8260B	
500-62900-4	MW-4	Total/NA	Water	8260B	
500-62900-5	MW-5	Total/NA	Water	8260B	
500-62900-6	MW-6	Total/NA	Water	8260B	
LCS 500-203087/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-203087/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: Cedar Corporation
Project/Site: Village Cleaners

TestAmerica Job ID: 500-62900-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (75-125)	TOL (75-120)	BFB (75-120)	DBFM (75-120)
500-62900-1	MW-1	108	101	106	84
500-62900-2	MW-2	105	98	102	84
500-62900-3	MW-3	107	99	104	86
500-62900-4	MW-4	107	99	102	85
500-62900-5	MW-5	107	98	103	84
500-62900-6	MW-6	108	98	101	87
LCS 500-203087/4	Lab Control Sample	103	98	99	89
MB 500-203087/6	Method Blank	109	98	104	87

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-203087/6
Matrix: Water
Analysis Batch: 203087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.074		0.50	0.074	ug/L			09/18/13 10:52	1
Bromobenzene	<0.25		1.0	0.25	ug/L			09/18/13 10:52	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			09/18/13 10:52	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			09/18/13 10:52	1
Bromoform	<0.28		1.0	0.28	ug/L			09/18/13 10:52	1
Bromomethane	<0.31		1.0	0.31	ug/L			09/18/13 10:52	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 10:52	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			09/18/13 10:52	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 10:52	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			09/18/13 10:52	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			09/18/13 10:52	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			09/18/13 10:52	1
Chloroethane	<0.34		1.0	0.34	ug/L			09/18/13 10:52	1
Chloroform	<0.20		1.0	0.20	ug/L			09/18/13 10:52	1
Chloromethane	<0.18		1.0	0.18	ug/L			09/18/13 10:52	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			09/18/13 10:52	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			09/18/13 10:52	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			09/18/13 10:52	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			09/18/13 10:52	1
Dibromomethane	<0.33		1.0	0.33	ug/L			09/18/13 10:52	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			09/18/13 10:52	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 10:52	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			09/18/13 10:52	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			09/18/13 10:52	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			09/18/13 10:52	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 10:52	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			09/18/13 10:52	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			09/18/13 10:52	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			09/18/13 10:52	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			09/18/13 10:52	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			09/18/13 10:52	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			09/18/13 10:52	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			09/18/13 10:52	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			09/18/13 10:52	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			09/18/13 10:52	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			09/18/13 10:52	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			09/18/13 10:52	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			09/18/13 10:52	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 10:52	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			09/18/13 10:52	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			09/18/13 10:52	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			09/18/13 10:52	1
Naphthalene	<0.16		1.0	0.16	ug/L			09/18/13 10:52	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			09/18/13 10:52	1
Styrene	<0.10		1.0	0.10	ug/L			09/18/13 10:52	1
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			09/18/13 10:52	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			09/18/13 10:52	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			09/18/13 10:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-203087/6
Matrix: Water
Analysis Batch: 203087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.11		0.50	0.11	ug/L			09/18/13 10:52	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			09/18/13 10:52	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			09/18/13 10:52	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			09/18/13 10:52	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			09/18/13 10:52	1
Trichloroethene	<0.19		0.50	0.19	ug/L			09/18/13 10:52	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			09/18/13 10:52	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			09/18/13 10:52	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			09/18/13 10:52	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			09/18/13 10:52	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			09/18/13 10:52	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			09/18/13 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 125*		*09/18/13 10:52*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*09/18/13 10:52*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*		*09/18/13 10:52*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*09/18/13 10:52*	*1*

Lab Sample ID: LCS 500-203087/4
Matrix: Water
Analysis Batch: 203087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.6		ug/L		93	70 - 120
Bromobenzene	50.0	51.4		ug/L		103	70 - 120
Bromochloromethane	50.0	44.3		ug/L		89	67 - 122
Bromodichloromethane	50.0	50.2		ug/L		100	70 - 120
Bromoform	50.0	45.6		ug/L		91	70 - 125
Bromomethane	50.0	54.9		ug/L		110	50 - 150
n-Butylbenzene	50.0	48.9		ug/L		98	75 - 120
sec-Butylbenzene	50.0	49.2		ug/L		98	70 - 120
tert-Butylbenzene	50.0	50.2		ug/L		100	70 - 120
Carbon tetrachloride	50.0	48.2		ug/L		96	70 - 125
Chlorobenzene	50.0	49.1		ug/L		98	70 - 120
Dibromochloromethane	50.0	50.0		ug/L		100	70 - 120
Chloroethane	50.0	52.8		ug/L		106	50 - 150
Chloroform	50.0	46.8		ug/L		94	70 - 120
Chloromethane	50.0	48.2		ug/L		96	50 - 134
2-Chlorotoluene	50.0	50.6		ug/L		101	70 - 120
4-Chlorotoluene	50.0	51.8		ug/L		104	70 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.3		ug/L		89	60 - 121
1,2-Dibromoethane	50.0	52.7		ug/L		105	70 - 120
Dibromomethane	50.0	47.4		ug/L		95	70 - 120
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	75 - 120
1,3-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 120
1,4-Dichlorobenzene	50.0	49.2		ug/L		98	75 - 120
Dichlorodifluoromethane	50.0	42.3		ug/L		85	40 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-203087/4
Matrix: Water
Analysis Batch: 203087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	48.5		ug/L		97	68 - 121
1,2-Dichloroethane	50.0	53.4		ug/L		107	69 - 120
1,1-Dichloroethene	50.0	43.4		ug/L		87	58 - 122
cis-1,2-Dichloroethene	50.0	42.8		ug/L		86	70 - 120
trans-1,2-Dichloroethene	50.0	44.8		ug/L		90	70 - 124
1,2-Dichloropropane	50.0	52.7		ug/L		105	70 - 120
1,3-Dichloropropane	50.0	56.7		ug/L		113	70 - 120
2,2-Dichloropropane	50.0	45.2		ug/L		90	67 - 125
1,1-Dichloropropene	50.0	46.9		ug/L		94	70 - 120
cis-1,3-Dichloropropene	50.0	51.0		ug/L		102	70 - 120
trans-1,3-Dichloropropene	50.0	50.7		ug/L		101	70 - 120
Ethylbenzene	50.0	48.7		ug/L		97	75 - 120
Hexachlorobutadiene	50.0	47.1		ug/L		94	65 - 135
Isopropylbenzene	50.0	51.9		ug/L		104	70 - 120
p-Isopropyltoluene	50.0	49.7		ug/L		99	70 - 120
Methylene Chloride	50.0	44.6		ug/L		89	65 - 125
Methyl tert-butyl ether	50.0	47.0		ug/L		94	58 - 122
Naphthalene	50.0	48.3		ug/L		97	55 - 132
N-Propylbenzene	50.0	51.4		ug/L		103	70 - 120
Styrene	50.0	47.3		ug/L		95	75 - 120
1,1,1,2-Tetrachloroethane	50.0	46.2		ug/L		92	75 - 120
1,1,2,2-Tetrachloroethane	50.0	54.7		ug/L		109	70 - 128
Tetrachloroethene	50.0	51.0		ug/L		102	70 - 123
Toluene	50.0	50.4		ug/L		101	70 - 120
1,2,3-Trichlorobenzene	50.0	48.4		ug/L		97	56 - 137
1,2,4-Trichlorobenzene	50.0	47.1		ug/L		94	65 - 121
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	70 - 123
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	69 - 120
Trichloroethene	50.0	47.6		ug/L		95	70 - 120
Trichlorofluoromethane	50.0	49.2		ug/L		98	63 - 134
1,2,3-Trichloropropane	50.0	51.0		ug/L		102	70 - 120
1,2,4-Trimethylbenzene	50.0	49.8		ug/L		100	75 - 121
1,3,5-Trimethylbenzene	50.0	50.8		ug/L		102	75 - 123
Vinyl chloride	50.0	49.4		ug/L		99	62 - 138
Xylenes, Total	100	96.7		ug/L		97	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*
Toluene-d8 (Surr)	*98*		*75 - 120*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane	*89*		*75 - 120*

Lab Chronicle

Client: Cedar Corporation
Project/Site: Village Cleaners

TestAmerica Job ID: 500-62900-1

Client Sample ID: MW-1

Lab Sample ID: 500-62900-1

Date Collected: 09/09/13 10:45
Matrix: Water
Date Received: 09/12/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203087	09/18/13 12:31	BDA	TAL CHI

Client Sample ID: MW-2

Lab Sample ID: 500-62900-2

Date Collected: 09/09/13 11:15
Matrix: Water
Date Received: 09/12/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203087	09/18/13 12:55	BDA	TAL CHI

Client Sample ID: MW-3

Lab Sample ID: 500-62900-3

Date Collected: 09/09/13 11:45
Matrix: Water
Date Received: 09/12/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203087	09/18/13 13:20	BDA	TAL CHI

Client Sample ID: MW-4

Lab Sample ID: 500-62900-4

Date Collected: 09/09/13 12:15
Matrix: Water
Date Received: 09/12/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203087	09/18/13 13:44	BDA	TAL CHI

Client Sample ID: MW-5

Lab Sample ID: 500-62900-5

Date Collected: 09/09/13 12:45
Matrix: Water
Date Received: 09/12/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203087	09/18/13 14:09	BDA	TAL CHI

Client Sample ID: MW-6

Lab Sample ID: 500-62900-6

Date Collected: 09/09/13 13:15
Matrix: Water
Date Received: 09/12/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203087	09/18/13 14:33	BDA	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Cedar Corporation
Project/Site: Village Cleaners

TestAmerica Job ID: 500-62900-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-14
South Carolina	State Program	4	77001	09-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

500-62900 COC

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

500-62900

TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
Cedar Corporation	Scott McCurdy	9/09/13	155634
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
604 Wilson Ave	715-235-9091		
City	**State** / **Zip Code**	**Site Contact**	**Lab Contact**
Menomonie	WI 54751	Ryan Stafne	Sandie Friedrich
Project Name and Location (State)	**Carrier/Waybill Number**	**Analysis (Attach list if more space is needed)**	
Village Classmans	Fedex		
Contract/Purchase Order/Quote No.			

	Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAcl/NaOH	Analysis: VOC's	Special Instructions/ Conditions of Receipt
1	MW-1	9/9/13	1045		X						2			X	
2	MW-2		1115												
3	MW-3		1145												
4	MW-4		1215												
5	MW-5		1245												
6	MW-6		1315												

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Ryan Stafne	9/9/13	1430	1. Received By: [signature]	9/12/13	0900
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

0.4

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-62900-1

Login Number: 62900

List Number: 1

Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	