CONESTOGA-ROVERS & ASSOCIATES	19449 River Sonoma, Ca Telephone: www.CRAwo
TRANS	MITTAL

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DATE:	March 27, 2009		Refei	RENCE NO.:	241408 (3)					
				Proji	ECT NAME:	8930 Bancroft Avenue, Oakland, CA				
To:	Jerry W	lickham				RECEIVED				
	Alameo	da County	Health Care	Services Ag	ency					
	1131 H	arbor Bay	Parkway, Sui	ite 250		2:43 pm, Mar 27, 2009				
	Alamee	da, Califor	nia 94502-657	77		Alameda County				
						Environmental Health				
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As Ro	equested ⁄our Use			For Review	and Commen	t				
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Copy to:	I	Denis Brov Sidhu Asso	vn, Shell Oil I ociates, 8930 I	Products, US Bancroft Ave	6 e, Oakland, C	CA, 94605				
Completee	d by: <u>I</u>	Dennis Bae	ertschi		Signed:	Dem Bant	~			
Filing: C	Correspor	ndence File	1							

19449 Riverside Drive, Suite 230 Sonoma, California 95476 Telephone: (707) 935-4850 Fax: (707) 935-6649 www.CRAworld.com



Denis L. Brown Shell Oil Products US HSE – Environmental Services 20945 S. Wilmington Ave. Carson, CA 90810-1039 Tel (707) 865 0251 Fax (707) 865 2542 Email <u>denis.1.brown@shell.com</u>

Jerry Wickham Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Former Shell Service Station 8930 Bancroft Avenue Oakland, California SAP Code 135678 Incident No. 98995742 ACHCSA Case No. RO0000404

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown Project Manager



# SITE INVESTIGATION REPORT/ REQUEST FOR CLOSURE

## FORMER SHELL SERVICE STATION 8930 BANCROFT AVENUE OAKLAND, CALIFORNIA

 SAP CODE
 135678

 INCIDENT NO.
 98995742

 AGENCY NO.
 RO 0404

#### Prepared by: Conestoga-Rovers & Associates

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MARCH 27, 2009 REF. NO. 241408 (3) This report is printed on recycled paper.

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- APPENDIX C BORING LOGS
- APPENDIX D DISPOSAL
- APPENDIX E CERTIFIED ANALYTICAL REPORTS

#### 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recent site investigation activities at the above referenced site. In an effort to address two remaining outstanding items raised by the Alameda County Health Care Services Agency (ACHCSA) in their letter dated August 6, 2008, so as to move this case toward closure, this investigation involved the collection of soil, groundwater, and vapor samples from the vicinity of the former first generation underground storage tanks (UST's) previously located on the northwest side of the site.

Case closure of this site as a low risk fuel site was initially recommended in Cambria Environmental Technology, Inc's (Cambria's) September 28, 2006 Subsurface Investigation Report, and was again discussed with ACHCSA during a meeting on March 29, 2007. During this meeting, ACHCSA indicated that the site would be reviewed for closure after a review of the Second Quarter 2007 groundwater monitoring data. This data was presented to ACHCSA in CRA's August 16, 2007 Groundwater Monitoring Report - Second Quarter 2007 and Request for Closure Consideration, in which CRA requested that the site continue to be reviewed for closure as a low risk fuel site. ACHCSA responded in an October 12, 2007 letter, in which ACHCSA noted that their files did not contain any information pertaining to the first generation UST's previously located on the northwest side of the site, and that further information was required regarding these former UST's to complete the case closure review. CRA was unable to locate any information related these former UST's except that they were apparently removed from the site in 1983 or 1984. Consequently, to address ACHCSA's request, CRA drilled and sampled three soil borings adjacent to, and within, the cavity of these former UST's for the collection of soil data. The findings of this site investigation were presented to ACHCSA in CRA's July 16, 2008 Site Investigation Report and Request for Closure, in which CRA requested that the site continue to be considered for closure as a low risk fuel site.

ACHCSA responded to this closure request in an August 6, 2008 letter in which ACHCSA cited the elevated concentrations of total petroleum hydrocarbons as diesel (TPHd) and total petroleum hydrocarbons as motor oil (TPHmo) reported in the waste characterization sample for the soil borings as the basis for the need for additional site investigation. ACHCSA requested that Shell further characterize the source and extent of these constituents in the vicinity of this former UST cavity and that soil vapor sampling be performed to assess the potential for vapor intrusion from this cavity.

The work was proposed in CRA's October 21, 2008 *Site Investigation and Soil Vapor Sampling Work Plan*, which was approved by ACHCSA in their letter dated

November 14, 2008. The field activities, data, and findings are presented herein. The work was performed in accordance with ACHCSA and San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) guidelines.

This former Shell service station is located at the north corner of the Bancroft Avenue and 90<sup>th</sup> Avenue intersection in a mixed commercial and residential area of Oakland, California (Figure 1). A review of historic aerial photographs and Sanborn maps performed in 1999 indicated that the site was first developed as a gasoline service station in 1960. The former first generation UST location is along the northwest property boundary (Figure 2). The site layout currently includes a second generation UST complex located near the southern corner of the site, four dispenser islands, and a 24-7 Quick Mart (Figure 2).

A summary of previous work performed at the site and additional background information is contained in Appendix A.

#### 2.0 EXECUTIVE SUMMARY

- Five soil borings (SB-3, SB-4, SB-5, V-1, and V-2) were drilled from within, and adjacent to the former first generation UST cavity for the collection of soil, groundwater, and vapor samples.
- Impacted soil appears to be confined laterally to the general vicinity of the former cavity, and attenuates vertically with depth to below detection limits.
- Groundwater impacts associated with the former UST cavity attenuate one to three orders of magnitude within 10 to 40 feet for the UST cavity, have not migrated offsite.
- None of the detectable soil vapor concentrations exceed the SFBRWQCB's lowest Environmental Screening Levels (ESL's) for vapor intrusion in residential land use. Vapor concentrations at the site do not pose a threat to human health or the environment.
- No further action appears warranted at the site, and the case should be considered for closure by ACHCSA.

#### 3.0 INVESTIGATION RESULTS

#### 3.1 <u>PERMITS</u>

CRA obtained a drilling permit from the Alameda County Public Works Agency – Water Resources, and a copy is provided in Appendix B.

#### 3.2 DRILLING DATES

February 4, 5, and 6, 2009.

### 3.3 DRILLING COMPANY

Gregg Drilling and Testing, Inc., of Martinez, California (C57 License No. 485165)

### 3.4 <u>CRA PERSONNEL</u>

CRA Geologist Carmen Rodriguez directed the drilling activities under the supervision of California Professional Geologist Ana Friel.

#### 3.5 DRILLING METHOD

Air-knife, water-knife, and Geoprobe.

#### 3.6 <u>NUMBER OF BORINGS</u>

Five soil borings (SB-3, SB-4, SB-5, V-1, and V-2) were drilled during this investigation. Soil borings SB-3, SB-4, and SB-5, were drilled at locations adjacent to the former UST cavity for the collection of soil and grab groundwater samples. Soil boring V-1 was drilled within the former UST cavity, and soil boring V-2 was drilled adjacent to the former UST cavity, for the collection of soil, grab groundwater, and soil vapor samples. Soil boring V-2 was relocated from that originally proposed due to constraints posed by a previously unidentified underground utility, and was renamed soil boring SB-5. The boring initially proposed as SB-5 was renamed V-2, so as to collect a soil vapor sample at a location between the former UST cavity and the adjacent residential building located along the northwest property line, which is the nearest sensitive receptor to this site. CRA's October 21, 2008 work plan had proposed that fixed vapor sampling points be installed in borings V-1 and V-2; however, prior to implementation of the field activities, CRA requested ACHCSA approval to install temporary vapor probes in V-1 and V-2 for the collection of soil vapor samples. The installation of temporary vapor probes at the site was approved by ACHCSA in a phone conversation on January 29, 2009.

The boring specifications and soil types encountered are described on the boring logs contained in Appendix C. The boring locations are shown on Figure 2.

#### 3.7 BORING DEPTHS

The borings depths ranged from 16 to 20 fbg.

### 3.8 GROUNDWATER DEPTHS

First-encountered groundwater ranged from approximately 15 to 16 fbg.

### 3.9 <u>SOIL SAMPLING</u>

Soil samples for chemical analysis were collected from borings SB-3, SB-4, and V-2 at 2, 5, 10, 12, and 15 fbg. Soil samples for chemical analysis were collected from borings SB-5 and V-1 at 2, 5, 10, 12.5, and 16 fbg, and 2, 5, 11, 14.5, and 15.5 fbg, respectively. Each sample was labeled, documented on a chain-of-custody, and submitted to Calscience Environmental Laboratories (Calscience) in Garden Grove, California for analysis.

#### 3.10 **GROUNDWATER SAMPLING**

Grab groundwater samples for chemical analysis were collected from borings SB-5 and V-1 at 15 to 16 fbg and from borings SB-3, SB-4, and V-2 at 16 to 17 fbg through temporary well casings placed within the open borehole using new disposable bailers. Each sample was labeled, documented on a chain-of-custody, and submitted to Calscience for analysis.

#### 3.11 SOIL VAPOP SAMPLING

#### 3.11.1 <u>TEMPORARY VAPOR PROBE CONSTRUCTION</u>

Soil borings V-1 and V-2 were cleared to 5.0 fbg. Small diameter temporary soil vapor probes, consisting of vapor screens located inside an outer sleeve, were then hydraulically pushed to 6.0 fbg. The outer sleeve was then retracted to expose 3-inches of vapor screen at an interval between 5.75 to 6.0 fbg, Teflon tubing was then attached to the probes and soil vapor samples were immediately collected, as described in the below section.

#### 3.11.2 SOIL VAPOR SAMPLING

Soil vapor sampling and leak testing were performed following Department of Toxic Substances Control's January 28, 2003 Advisory-Active Soil Gas Investigation guidelines.

During sampling, the Teflon tubing for each temporary vapor probe was connected to a control valve, and then to a flow regulator attached to a lab-supplied sampling manifold connecting two 1-liter summa canisters (one purge canister and one sampling canister) with flow regulators and pressure gauges. Prior to sampling, a vacuum test was conducted between the summa canisters, the sampling manifold, and the valves by closing the valves and opening the purge summa canister for approximately 10 minutes. Paper towels with shaving cream were placed at sample system connections for the leak test and held in place with aluminum foil during sampling activities. At least three tubing volumes of air were purged into the purge canister prior to sampling. Immediately after purging, soil vapor samples were collected using the second 1-liter Summa canister. One ambient air sample was collected from a select location by opening a summa canister until sufficient sample had been collected. Each sample was labeled, documented on a chain-of-custody, and submitted to Calscience for analysis.

#### 3.12 WASTE DISPOSAL

Three drums of soil and one drum of sludge (soil/water mixture) were generated during field activities and stored in 55-gallon drums onsite. The three drums of soil were sampled and profiled for disposal, and the laboratory analytical report is included in Appendix D. Waste disposal confirmation documentation is pending and can be provided by CRA upon request.

#### 4.0 <u>FINDINGS</u>

#### 4.1 SOIL ANALYTICAL DATA

The soil analytical data is summarized in Table 1, and the TPHg, TPHd, TPHmo, benzene, and MTBE soil analytical results are presented on Figure 3. The laboratory analytical reports are presented in Appendix E.

#### 4.2 GRAB GROUNDWATER ANAYLTICAL DATA

The grab groundwater analytical data is summarized in Table 2, and the TPHg, TPHd, TPHmo, benzene, and MTBE groundwater analytical results are presented on Figure 4. This figure also shows the groundwater results for wells MW-1 through MW-6 performed during the Third Quarter of 2008. Due to the virtual absence of groundwater recharge in soil boring SB-5, there was insufficient groundwater collected to able to analyze this sample for TPHd and TPHmo. The laboratory analytical reports are presented in Appendix E.

### 4.3 SOIL VAPOR ANALYTICAL DATA

The soil vapor analytical data is summarized in Table 3, and the TPHg, benzene, MTBE, and TBA soil vapor analytical results are presented on Figure 5. The laboratory analytical reports are presented in Appendix E.

#### 5.0 DISCUSSION

The purpose of this investigation was to further characterize the source and extent of TPHd and TPHmo, and other petroleum hydrocarbon constituents in the soils and groundwater in the vicinity of the former first generation UST's, and to assess the potential for vapor intrusion from this former UST cavity. These efforts were performed to address the ACHDEH's specific questions following their continued review of this site for closure.

### 5.1 <u>SOILS</u>

No detectable concentrations of BTEX or fuel oxygenates were reported for any of the soil samples from this investigation. No detectable concentrations of TPHg, TPHd, or TPHmo were reported for any of the soil samples from boring SB-5. No detectable concentrations of TPHg were reported in borings SB-3 and V-2. Concentrations of TPHg were reported in boring SB-4 at 71 milligrams per kilogram (mg/kg) (at 15 fbg) and in boring V-1 at 1.1 mg/kg (at 11 fbg and 14.5 fbg) and 250 mg/kg (at 15 fbg). The 71 mg/kg TPHg at 15 fbg in SB-4 and the 250 mg/kg TPHg at 15 fbg in V-1 appear to reflect localized impacted groundwater, based on the grab groundwater samples from these locations (discussed in section 5.2, below). Thus, the highest concentration of TPHg in the unsaturated vadose zone soils from this investigation was 1.1 mg/kg in V-1 at 11 and 14.5 fbg.

Concentrations of TPHd and TPHmo were reported at various depths in borings SB-3, SB-4, V-1, and V-2. For all of the samples with detected TPHd results, the laboratory report contained a note stating that the sample chromatographic pattern did not match the chromatographic pattern for the specified standard. This is often the noted for sites where there is very old and highly weathered fuel releases. The maximum TPHd and TPHmo concentrations were both reported in V-1 at 11 fbg at 1,200 mg/kg and 1,700 g/kg, respectively. Based on a review of the boring log for V-1, it appears that this sample depth reflects native soils just beneath the fill material within the former UST cavity (SB-3, SB-4, and V-2) show decreasing detections that attenuate an order of magnitude laterally, with the exception of the 5 fbg sample in SB-4 which contained TPHmo at 1,100 mg/kg. This indicates that soil impacts appear to be confined to the general vicinity of the former UST cavity. Further, since the TPHd and TPHmo concentrations decrease to below detection limits by the 12 fbg sample in both V-1 and SB-4, the vertical extent of soil impact appears relatively limited as well. Based on the

non-detect results for the samples from 2 and 5 fbg at V-1, it appears that the former UST cavity was not backfilled with significantly impacted soil.

### 5.2 <u>GROUNDWATER</u>

No detectable concentrations of toluene, TBA, DIPE, ETBE, or TAME were reported in any of the groundwater samples. Benzene was reported in V-1 at 17 micrograms per liter ( $\mu$ g/l), ethylbenzene was reported in SB-4, V-1, and V-2 at a maximum concentration of 230  $\mu$ g/l, total xylenes were reported in SB-5, V-1, and V-2 at a maximum concentration of 22  $\mu$ g/l, and MTBE was reported only in SB-5 at a concentration of 1.2  $\mu$ g/l. Detectable concentrations of TPHg were reported in SB-4, SB-5, V-1, and V-1 at concentrations ranging from 63  $\mu$ g/l (SB-5) to 110,000  $\mu$ g/l (SB-4).

Water samples from boring S-5 were not analyzed for TPHd or TPHmo due to insufficient recharge of the aquifer. In the other four borings, detectable concentrations of TPHd were reported ranging from 320  $\mu$ g/l (SB-3) to 300,000  $\mu$ g/l (SB-4). As with the soil samples, each of the TPHd detections contained a laboratory note stating that the sample chromatographic pattern did not match the chromatographic pattern for the specified standard. Detectable concentrations of TPHmo were reported in SB-3 and V-2 at concentrations of 1,300  $\mu$ g/l and 2,100  $\mu$ g/l, respectively. For SB-4 and V-1, the detection limit for TPHmo was elevated to 12,000  $\mu$ g/l and 250  $\mu$ g/l, respectively.

Included on Figure 4 with the grab groundwater results from this investigation are the groundwater monitoring results from the Third Quarter of 2008, which included TPHd and TPHmo in addition to the TPHg, BTEX, and MTBE analyses. The results from the monitoring wells indicate that there is significant attenuation of TPHd and TPHmo within rather short distances. For example, the results from MW-2 did not report any detectable hydrocarbons, although it is located within 5 feet of the former UST cavity, and adjacent to boring V-2. Additionally, MW-6 shows TPHg, TPHd and TPHmo results that are up to 3 orders of magnitude lower than the concentrations at SB-4 located approximately 40 feet upgradient of MW-6. Based on the recent data from the site groundwater monitoring wells, and the consistent groundwater gradient at this site, the data indicates that the groundwater impacts associated with the former UST cavity are confined to the general vicinity of the cavity and attenuate significantly with distance. Given the age of the release from this cavity (over 20 years old), and the limited extent of impact, there does not appear to be a threat to human health or the environment associated with the residual TPHd and TPHmo impacted groundwater at this active service station.

#### 5.3 <u>SOIL VAPOR</u>

Soil vapor samples were collected from vapor probes in borings V-1 and V-2, a duplicate vapor sample was collected from the vapor probe in boring V-2, and an ambient air sample was collected from the vicinity of boring V-1. Concentrations of benzene, toluene, ethylbenzene, and TBA were reported in vapor probes V-1 and V-2. Concentrations of the aforementioned constituents, as well as xylenes were reported in the duplicate sample from V-2. No detectable vapor concentrations of TPHg or MTBE were reported in either V-1 or V-2. As shown in Table 3, none of the vapor concentrations exceed the SFBRWQCB's ESL's for vapor intrusion for either residential and commercial land use [Ref. Table E from SFBRWQCB's *Screening for Environmental Concerns at sites with Contaminated Soil and Groundwater – Interim Final*, November, 2007 (Rev. May, 2008)]. Thus, based on the soil vapor sampling conducted at this site, vapor intrusion does not pose a threat to human health to individuals on the site or to offsite residents by vapor migration.

### 6.0 <u>CONCLUSIONS</u>

This investigation was performed to address the agency's request for assessment of TPHd and TPHmo in and near the former UST pit and the potential for vapor intrusion in the same area. Based on the results of this investigation, CRA provides the following conclusions:

- TPHd and TPHmo range impacted soils exist beneath and in close proximity of the former UST cavity on the northwestern portion of the site, but are not laterally or vertically extensive.
- Grab groundwater samples indicate elevated concentrations of TPHg, TPHd, and TPHmo beneath and within close proximity of the former UST cavity, but groundwater data from monitoring wells show that significant attenuation occurs within a short distance from the former UST cavity.
- Soil vapor sample results from within the UST cavity (V-1) and between the former USTs and the nearest residence next to the site (V-1) indicate that the residual impacted soil and groundwater do not pose a threat to the health of onsite commercial workers or offsite residents by vapor migration.

### 7.0 <u>RECOMMENDATIONS</u>

Given the above noted findings and conclusions, in conjunction with the arguments for site closure presented in:

- Cambria's September 28, 2006 Subsurface Investigation Report,
- CRA's August 16, 2007 Groundwater Monitoring Report Second Quarter 2007 and Request for Closure Consideration, and
- CRA's July 16, 2008 Site Investigation Report and Request for Closure.

On behalf of Shell, CRA is again requesting that the site be considered for closure as a low risk fuel site, and that no further action be required.

Groundwater monitoring at this site has already been discontinued, and upon concurrence from ACHCSA, the monitoring wells will be properly destroyed.

All of Which is Respectfully Submitted, CONESTOGA--ROVERS & ASSOCIATES

0

Dennis Baertschi



Ana Friel, PG

FIGURES





241408-2009(003)GN-SO001 MAR 13/2009

	LEGEND
•	MONITORING WELL LOCATION
	SOIL BORING LOCATION (7/13/06)
	CAMBRIA SOIL BORING LOCATION (04/01/01)
	SOIL BORING LOCATION
— — SAN —	SANITARY SEWER LINE (SAN)
STM G	STORM DRAIN (STM) GAS LINE (G)
— — E —	ELECTRICAL LINE (E)
?	UNKNOWN
	FLOW DIRECTION
[111]	STORM DRAIN INLET
0	MANHOLE
FL	FLOWLINE ELEVATION (IN FEET ABOVE MSL)
	<u>NOTE:</u> ALL CONDUIT LOCATIONS ARE APPROXIMATE
	STM STM
	MEDIAN
	NEDIAN
	SIDEWALK
	figure 0
	ligure 2
	SITE MAP
Bancrof	t Avenue. Oakland. California

241408-2009(003)GN-SO002 MAR 18/2009









<u>LEGEND</u>
---------------

- MONITORING WELL LOCATION 0
- SOIL BORING LOCATION (7/13/06)
- $\boxtimes$ CAMBRIA SOIL BORING LOCATION (04/01/01)
- SOIL BORING LOCATION  $\geq$

TPHg/TPHd/TPHmo/BENZENE/MTBE SOIL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM/DEPTH IN FEET

MEDIAN	
SIDEWALK	
OPERTY	
SOIL CHEMICAL CONC FEBRUARY FORMER SHELL S <i>8930 Bancroft Avenue, C</i>	figure 3 ENTRATION MAP 4, 5, AND 6, 2009 ERVICE STATION <i>Oakland, California</i>



241408-2009(003)GN-SO003 MAR 20/2009

	LEGEND
•	MONITORING WELL LOCATION
	SOIL BORING LOCATION (7/13/06)
$\boxtimes$	CAMBRIA SOIL BORING LOCATION (04/01/01)
	SOIL BORING LOCATION
.0/16'-17'	TPHg/TPHd/TPHmo/BENZENE/MTBE GROUNDWATER CONCENTRATIONS IN MICROGRAMS PER LITER/ DEPTH IN FEET
NA	NOT ANALYZED DUE TO INSUFFICIENT WATER RECHARGE IN BORING.
NC WI	DTES: ELLS MW-1 THRU MW-6 SAMPLED ON 9/19/08.
	MEDIAN
	SIDEWALK
	figure 4
~ =	
EN IY	, 2008 AND FEBRUART 0, 2009 JED SHELL SERVICE STATION
1 Rand	croft Avenue Oakland California
Danc	



241408-2009(003)GN-SO004 MAR 17/2009

#### <u>LEGEND</u>

- MONITORING WELL LOCATION
- SOIL BORING LOCATION (7/13/06)
- CAMBRIA SOIL BORING LOCATION (04/01/01)
- SOIL BORING LOCATION
- <9,100/21/<11/10 TPHg/BENZENE/MTBE/TBA SOIL VAPOR CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

MEDIAN	
SIDEWALK	
,	figure 5
R CHEMICAL CONC Fl FORMER SHELL S <i>0 Bancroft Avenue, C</i>	ENTRATION MAP EBRUARY 5, 2009 ERVICE STATION Oakland, California

#### SOIL ANALYTICAL DATA FORMER SHELL-BRANDED SERVICE STATION 8930 BANCROFT AVENUE OAKLAND, CALIFORNIA

					TPH as			Ethyl-						
Sample ID	Depth	Date	TPHg	TPHd	Motor Oil	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME
	(fbg)	Sampled	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
SB-3	2	2/4/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-3	5	2/6/2009	< 0.50	6.5 a	25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-3	10	2/6/2009	< 0.50	13 a	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-3	12	2/6/2009	< 0.50	390 a	440	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-3	15	2/6/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-4	2	2/4/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-4	5	2/6/2009	< 0.50	250 a	1,100	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-4	10	2/6/2009	< 0.50	7.5 a	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-4	12	2/6/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-4	15	2/6/2009	71	30 a	<25	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0	<1.0	<1.0	<1.0
SB-5	2	2/4/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-5	5	2/6/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-5	10	2/6/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-5	12.5	2/6/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
SB-5	16	2/6/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
V-1	2	2/5/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
V-1	5	2/5/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
V-1	11	2/6/2009	1.1	1200 a	1,700	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
V-1	14.5	2/6/2009	1.1	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
V-1	15.5	2/6/2009	250	5.7 a	<25	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0	<1.0	<1.0	<1.0
V-2	2	2/4/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
V-2	5	2/6/2009	< 0.50	110 a	290	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
V-2	10	2/6/2009	< 0.50	13 a	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
V-2	12	2/6/2009	< 0.50	200 a	700	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010
V-2	15	2/6/2009	< 0.50	<5.0	<25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.010	< 0.010	< 0.010

#### SOIL ANALYTICAL DATA FORMER SHELL-BRANDED SERVICE STATION 8930 BANCROFT AVENUE OAKLAND, CALIFORNIA

#### Notes and Abbreviations:

Analytical results in milligrams per kilogram (mg/kg).

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015.

TPHd = Total petroleum hydrocarbons as diesel by EPA 8015B

TPH as Motor Oil = Total petroleum hydrocarbons as Motor Oil by EPA 8015B (M)

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B

MTBE = Methyl tert-butyl ether by EPA Method 8260B

TBA = Tertiary butyl alcohol by EPA Method 8260B

DIPE = Diisopropyl Ether by EPA 8260B

ETBE = Ethyl tertiary butyl ether by EPA Method 8260B

TAME = Tertiary amyl methyl ether by EPA Method 8260B

a = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard.

#### GRAB GROUNDWATER ANALYTICAL DATA FORMER SHELL-BRANDED SERVICE STATION 8930 BANCROFT AVENUE OAKLAND, CALIFORNIA

					TPH as			Ethyl-						
Sample ID	Depth	Date	TPHg	TPHd	Motor Oil	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME
	(fbg)	Sampled	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SB-3	16'-17'	2/6/2009	<50	320 a	1,300	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0
SB-4	16'-17'	2/6/2009	110.000	300.000 a	<12.000	<12	<25	84	<25	<25	<250	<50	<50	<50
		_, .,	,	,	,									•••
CR 5	15! 16!	2/6/2000	63			<0.50	<10	<10	15	1 0	~10	<20	<20	<20
30-5	15-10	2/0/2009	03			<0.50	<b>N1.0</b>	<b>N1.0</b>	1.5	1.2	×10	N2.0	N2.0	N2.0
<b>T T d</b>	a = 1 a 41	<b>a</b> 1 < 1 <b>a</b> a a a	16.000				-= 0	•••			-50	10	.1.0	
V-1	15'-16'	2/6/2009	16,000	7,800 a	<250	17	<5.0	230	22	<5.0	<50	<10	<10	<10
V-2	16'-17'	2/6/2009	2,500	2,700 a	2,100	< 0.50	<1.0	15	4.9	<1.0	<10	<2.0	<2.0	<2.0

Notes and Abbreviations:

Analytical results in micrograms per liter ( $\mu$ g/l).

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015.

TPHd = Total petroleum hydrocarbons as diesel by EPA 8015B

TPH as Motor Oil = Total petroleum hydrocarbons as Motor Oil by EPA 8015B (M)

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B

MTBE = Methyl tert-butyl ether by EPA Method 8260B

TBA = Tertiary butyl alcohol by EPA Method 8260B

DIPE = Diisopropyl Ether by EPA 8260B

ETBE = Ethyl tertiary butyl ether by EPA Method 8260B

TAME = Tertiary amyl methyl ether by EPA Method 8260B

-- = Not sampled due to insufficient recharge

a = The sample chromatogrpahic pattern for TPH does not matchthe chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon in the sample was based upon the specified standard.

#### SOIL VAPOR ANALTYICAL DATA FORMER SHELL-BRANDED SERVICE STATION 8930 BANCROFT AVENUE OAKLAND, CALIFORNIA

Sample	Date	TPHg	В	Т	Ε	X	MTBE	TBA	Propane	Butane	Isobutane
ID	Sampled	$(\mu g/m^{3})$									
V-1	05-Feb-09	<9,100	21	33	5.6	<14	<11	10	87	56	37
V-2	05-Feb-09	<10,000	13	40	6.7	<15	<13	13	<47	42	43
V-2 (Duplicate)	05-Feb-09	<9,900	14	41	7.7	22	<12	26	<47	42	45
*Ambient Air	05-Feb-09	<8,600	<2.4	5.9	<3.3	<13	<11	<9.1	<41	<18	<18
<sup>1</sup> SFBRWQCB ESL's	Residential Land Use	10,000	84	63,000	980	21,000	9,400	NA	NA	NA	NA
Shallow Soil Gas	Commercial Land Use	29,000	280	180,000	3,300	58,000	31,000	NA	NA	NA	NA

Abbreviations and Notes:

Results in **bold** denote detectable concentrations

 $\mu g/m^3$  = micrograms per cubic meter

<x = Not detected at reporting limit x

TPHg = Total petroleum hydrocarbons as gasoline by Modified EPA Method TO-3M

BTEX = Benzene, toluene, ethylbenzene, and xylenes by Modified EPA Method TO-15

MTBE (Methyl tertiary butyl ether), TBA (tertiary butyl alcohol), Propane, Butane, and Isobutane by EPA Method TO-15

\* Ambient air sample was collected in the vicinity of soil vapor probe V-1

<sup>1</sup> From Table E of SFBRWQCB ESL's. Ref: Screening for Environmental Concerns at Sites with Contaminated Soil & Groundwater-Interim Final, Nov. 2007 (Rev. May, 2008) NA = Not available

APPENDIX A

SITE HISTORY

#### SITE HISTORY

*1983-1984 First Generation Underground Storage Tanks (USTs) Removal:* Based on a review of available documentation, Conestoga-Rovers & Associates (CRA) was able to determine that sometime in 1983 or 1984, three first generation USTs and associated piping were removed from the northwest side of the site, and were replace with three new second generation USTs in a new UST cavity located along the southeast side of the site.

*1983 Well Installation:* In May 1983, Gettler Ryan, Inc. of Dublin, California installed groundwater monitoring wells MW-1 through MW-6 at the site. The well installations were in response to reported gasoline-saturated soils discovered by an independent drilling contractor. The wells were completed between 18 and 19 feet below grade (fbg) and constructed of 3-inch-diameter schedule 40 PVC. No soil or groundwater analytical samples were collected during the well installations. A report detailing the well installations is not available for review at the time of this writing.

*1998 Well Sampling:* In December 1998, Blaine Tech Services, Inc. (Blaine) developed and sampled the six monitoring wells. Based on hydrocarbon and methyl tertiary-butyl ether (MTBE) detections in the groundwater samples, Cambria Environmental Technology, Inc., (Cambria) filed a December 23, 1998 Underground Storage Tank Unauthorized Release (Leak)/Contaminant Site Report (Form 5) on Shell's behalf.

*1999 Phase I Environmental Site Assessment:* In April 1999, Cambria conducted a limited Phase I environmental assessment and sensitive receptor survey to identify recognized environmental conditions at the site and to identify wells and surface water bodies within a ½-mile radius of the subject property. A review of historical city directories did not identify any facilities within a ¼-mile radius which have a reasonable potential to impact soil or groundwater quality beneath the subject property. The well survey identified 30 wells of various types within ½-mile of the site. The only identified surface water within the ½-mile radius was Viejo Creek, located approximately ½-mile to the north of the site. Cambria's April 16, 1999 *Limited Phase I Environmental Assessment and Sensitive Receptor Survey Report* summarizes these findings.

*1999 Underground Storage Tanks (USTs), Piping and Dispenser Replacement Sampling.* In July 1999, the three second generation 10,000-gallon fiberglass USTs and associated piping and dispensers were removed and replaced at the site. The three new UST's were placed in the same cavity as those that were removed. Soil samples collected beneath the removed USTs, dispensers, and product piping contained up to 6.20 milligrams per kilogram (mg/kg) MTBE. Following removal activities and sampling, Shell discontinued operating USTs at the site. Cambria's September 20, 1999 *Underground Storage Tank Closure Report* summarizes these activities.

*2000 Well Survey:* During the fourth quarter 2000, Shell conducted a well survey to identify potential receptors within ½-mile of the site. This survey was performed using well logs provided by the California Department of Water Resources (DWR). Five wells were identified downgradient of the site and classified as "irrigation/agricultural," "unknown," or "active water producing" wells. As recommended in the November 30, 2000 *Site Investigation Work Plan*, Cambria conducted a field reconnaissance to verify the existence of the five wells. Well locations are plotted on Figure 1. Well #4 was located and observed to be currently in use as an irrigation well. Well #5 and observed to be abandoned. Wells #28 and #29 were located on Pacific Bell property and appear to be out-of-service monitoring wells. Cambria could not locate well #10 using the location information given on the DWR well log. Well #10 is listed as an unknown well with similar owner information and construction details to well #11, which was reported as a cathodic protection well. Cambria's November 30, 2000 *Site Investigation Work Plan* reports well survey results.

*2000 Conduit Study:* In order to determine whether underground utility trenches may be serving as preferential pathways for contaminant migration from the site, Shell conducted a subsurface conduit study of areas adjacent to the site. During the fourth quarter 2000, Cambria obtained local utility maps from the City of Oakland Public Works Department which located storm sewer and sanitary sewer conduits and their flow line elevations in relation to mean sea level (msl). Based on the findings, it appeared that adjacent sewer conduits existed at elevations which, at times, have been near or below the elevation of the on-site groundwater. Cambria concluded that it is possible groundwater had previously flowed in the utility trench backfill material during periods of higher groundwater elevations. Conduit study results were reported in Cambria's November 30, 2000 *Site Investigation Work Plan*.

*2001 Subsurface Investigation:* In April 2001, Cambria advanced soil borings SB-A, SB-B, and SB-C and collected grab groundwater samples within the public right-of-way, downgradient of the site and across Bancroft Avenue. Groundwater was first encountered at approximately 14 fbg in boring SB-A and SB-B, which is deeper than the 7.28 to 9.07 fbg levels encountered during the March 2001 monitoring event. Groundwater was not encountered in boring SB-C to the total explored depth of 26 fbg. Groundwater samples were collected at 14 to 16 fbg in borings SB-A and SB-B. MTBE was only detected in soil sample SB-B18.0 at a concentration of 0.055 mg/kg. MTBE was detected only in groundwater sample SB-BH2O at a concentration of

450 micrograms per liter ( $\mu$ g/l). Details of the well installations were reported in Cambria's August 6, 2001 *Subsurface Investigation Report and Sampling Frequency Reduction Recommendation*.

*2001 Well Survey:* In August 2001, Cambria performed a door-to-door well survey for properties within 500 feet downgradient of the site, including those northwest, west and southwest of the site. Cambria mailed questionnaires to property owners and followed up with a field reconnaissance of the survey area. Twenty-two of the 42 parcels provided well survey data. Based on the completed survey questionnaires, no water wells were identified within 500 feet downgradient of the site. Details of the well survey were reported in Cambria's September 25, 2001 *Door-to-Door Well Survey Report.* 

*2004 Irrigation Well Sampling:* Cambria's September 25, 2001 *Door-to-Door Well Survey Report* identified one active irrigation well approximately 1,300 feet downgradient of the site. After several attempts by Shell and the ACHCSA to contact the property owner by mail, a response was received from Ms. Wanda Brooks, the contact for the property owner. When Cambria spoke with Ms. Brooks on October 7, 2004, she confirmed that the well was currently being used as a backyard irrigation well, that it was installed in 1980, and that it is approximately 50 feet deep. Ms. Brooks granted verbal permission for Shell to sample water from the well. At Shell's request, Cambria collected one water sample from this well and analyzed it for MTBE on November 10, 2004. MTBE was not detected.

2006 Subsurface Investigation: In a January 12, 2006 email to ACHCSA, Cambria requested that the site be reviewed for closure based on the low level to mostly nondetectable concentrations of chemicals of concern in the groundwater at the site at that time, and ACHCSA agreed in a response email. Closure of the site was subsequently discussed during a February 2, 2006 meeting with ACHCSA, at which time ACHCSA stated that additional information was necessary before the case could be reviewed for closure. Specifically, ACHCSA requested that Shell investigate the offsite extent of impacted groundwater downgradient of the site. Two offsite soil borings (SB-1 and SB-2) were drilled in July of 2006, but the collection of a groundwater sample from either of these two borings was unsuccessful due to lack of groundwater recharge in either boring. The field activities associated with these offsite borings was documented in Cambria's September 28, 2006 Subsurface Investigation Report, in which an argument was presented by Cambria that, because the results of the downgradient borings drilled in 2001 (SB-A and SB-B) support that the MTBE plume had not migrated across Bancroft in significant concentrations, that further offsite assessment of TPHg or BTEX was not necessary because:

- Onsite concentrations have significantly declined over the past two years and are currently below detection limits;
- The water-bearing formation appears to pinch out or dry out in the downgradient direction, at least seasonally;
- If the MTBE plume did not travel significantly across Bancroft (circa 2001), it is less likely that TPHg or BTEX would be able to migrate significantly away from its' source area.

Consequently, Cambria requested that the site should be reviewed for closure as a low risk fuel site.

*Second Quarter 2007 Groundwater Monitoring Report:* Case closure of this site was again discussed with ACHCSA during a meeting on March 29, 2007, during which ACHCSA indicated that the site would be reviewed for closure after receipt of the Second Quarter 2007 groundwater monitoring data, and that the groundwater monitoring program for the site could be discontinued after the Second Quarter 2007 event, while the site was being reviewed for closure. The Second Quarter 2007 groundwater monitoring data was presented to ACHCSA in CRA's August 16, 2007 *Groundwater Monitoring Report – Second Quarter 2007 and Request for Closure Consideration,* in which CRA requested that the site continue to be reviewed for closure as a low risk fuel site. ACHCSA responded to this request in an October 12, 2007 letter, in which ACHCSA noted that they had performed a complete review of all the information in the case files, but that further information was required regarding the former first generation UST's, and the extent of any contamination in the area of these former USTs, to complete the case closure review.

2008 Subsurface Investigation: To address ACHCSA's above noted request for additional regarding the former first generation UST's, and the extent of any contamination in the area of these former USTs, CRA reviewed all available internal files, all available Shell files, and the City of Oakland Fire Department files for information related to this request. CRA was not able to locate any relevant information pertaining to the removal of these former UST's, other than that they were apparently removed from the site in 1983 or 1984. To address ACHCSA request, in June of 2008 CRA installed three soil borings (TB-1, TB-2, and TB-3) within, and adjacent to, the cavity of the former first generation UST's to collect soil samples to determine the extent (if any) of soil contamination in the area of these former USTs. With the exception of the 310 and 52 mg/kg total petroleum hydrocarbons as gasoline (TPHg) reported in TB-2 at 10.5 and 13.5 fbg, respectively, none of the soil samples collected from any of the three borings reported any detectable petroleum hydrocarbon concentrations above their respective detection limits. Concentrations of TPHg reported in TB-2 and TB-3

attenuated one to two orders of magnitude with depth. Further, the concentrations of TPHg reported in TB-2 and TB-3 at 13.5 fbg, at just above soil groundwater interface, did not exceed the lowest environmental screening level (ESL) of 83 mg/kg established for deeper soils at sites where groundwater is a current or potential source of drinking water, and therefore do not pose at threat to the groundwater at this site. Consequently, CRA concluded that the site meets the low risk fuel site case closure criteria and should be considered for closure and no further action. The details of this site investigation were reported in CRA's July 16, 2008 Site Investigation and Request for Closure. ACHCSA responded to this document in a letter dated letter dated August 6, 2008. In this letter, citing elevated concentrations of total petroleum hydrocarbons as diesel (TPHd) and total petroleum hydrocarbons as motor oil (TPHmo) reported in the waste characterization sample for soil borings TB-1, TB-2, and TB-3, ACHCSA requested a work plan to further characterize the source and extent of these constituents in the vicinity of this former UST cavity. In addition, citing that the soil borings where cleared to 10 feet below grade (fbg) via air knife or water knife, and that no shallow soil samples were collected from this former UST cavity for analysis of volatile organic compounds, ACHCSA requested that the work plan also include soil vapor sampling to assess the potential for vapor intrusion from this former UST cavity. To further evaluate if concentrations of TPHd and TPHmo where impacting site groundwater, groundwater samples from the site wells were analyzed for TPHd and TPHmo during a one-time sample event performed during the Third Quarter of 2008. The findings of this monitoring event are provided in the Historical Groundwater Monitoring Program section presented below.

*Historical Groundwater Monitoring Program:* Quarterly groundwater monitoring has been performed at the site since January 1998, and as previously noted, was discontinued after the Second Quarter 2007 groundwater monitoring event. Depth to water has ranged historically between 5.93 and 16.02 fbg, and the groundwater flow direction typically has a westerly flow.

As noted in the prior section, a one-time groundwater monitoring event was performed at the site during the Third Quarter of 2008, and analysis for TPHd and TPHmo was added to the analytical suite. The Third Quarter 2008 groundwater monitoring event involved the sampling of all six site wells for TPHg, benzene, ethylbenzene, toluene, xylenes (BTEX), MTBE, tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), and tertiary amyl methyl ether (TAME). With the exception of 120 g/l TPHg reported in well MW-5, and 2.4  $\mu$ g/l MTBE reported in well MW-4, none of the above-referenced constituents were detected in any of the wells. TPHd was detected in four of the wells (MW-3, MW-4, MW-5, and MW-6) with concentrations ranging from 72 to 290  $\mu$ g/l. TPHmo was detected in two of the wells (MW-3 and MW-6) at concentrations of 600 and  $630 \,\mu$ g/l, respectively. Well MW-2, located immediately adjacent to, and downgradient from the former first generation UST's discussed in prior sections above, did not report any detectable concentrations of TPHg, TPHd, TPHmo, BTEX, MTBE, TBA, DIPE, ETBE or TAME.
APPENDIX B

PERMITS

#### Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved	d on: 01/23/2009 By jamesy	Permit Numbers: W2009-0044 to W2009-0045 Permits Valid from 02/04/2009 to 02/06/2009			
Application Id: Site Location: Project Start Date: Assigned Inspector:	1231353945817 8930 Bancroft Avenue - Former Shell-branded S 02/04/2009 Contact Vicky Hamlin at (510) 670-5443 or vicky	City of Project Site:Oakland Service Station Completion Date:02/06/2009 yh@acpwa.org			
Applicant:	Conestoga-Rovers & Associates - Carmen	Phone: 510-420-3371			
Property Owner:	Rodriguez 5900 Hollis St., Suite A, Emeryville, CA 94608 Sid Sidhn 8930 Bancroft Ave, Oakland, CA 94605	<b>Phone:</b> 510-366-5796			
Client:	Denis Brown Shell Oil Products US 20945 S. Wilmington Ave. Carson CA 90810	<b>Phone:</b> 707-865-0251			
Contact:	same as above	Phone: Cell:			

I otal Due:	\$460.00
Receipt Number: WR2009-0024 Total Amount Paid:	\$460.00
Payer Name : Conestoga-Rovers & Paid By: CHECK	PAID IN FULL

Associates

#### **Works Requesting Permits:**

...

Borehole(s) for Investigation-Contamination Study - 3 Boreholes Driller: Gregg Drilling and Testing - Lic #: 485165 - Method: hstem

Work Total: \$230.00

140000 0045

Specifications									
Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth				
Number			Boreholes						
W2009-	01/23/2009	05/05/2009	3	8.00 in.	15.00 ft				
0044									

#### **Specific Work Permit Conditions**

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities

#### Alameda County Public Works Agency - Water Resources Well Permit

or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Remediation Well Construction-Vapor Remediation Well - 2 Wells Driller: Gregg Drilling - Lic #: 485165 - Method: DP

Work Total: \$230.00

#### Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009- 0045	01/23/2009	05/05/2009	V-1	1.00 in.	1.00 in.	5.00 ft	15.00 ft
W2009- 0045	01/23/2009	05/05/2009	V-2	1.00 in.	1.00 in.	5.00 ft	15.00 ft

#### **Specific Work Permit Conditions**

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).

### Alameda County Public Works Agency - Water Resources Well Permit

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

9. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

APPENDIX C

BORING LOGS

## **Boring/Well Log Legend**

#### KEY TO SYMBOLS/ABBREVIATIONS

Hydropunch or vapor sample screen interval

M:\Templates & Forms\Boring Logs\Boring Log Legend

₽ First encountered groundwater PID = Photo-ionization detector or organic vapor meter reading in parts per million (ppm) Static groundwater Y fbg =Feet below grade Soils logged by hand-auger or air-knife cuttings Blow Counts = Number of blows required to drive a California-modified split-spoon sampler using Soils logged by drill cuttings or disturbed sample (( a 140-pound hammer falling freely 30 inches, recorded per 6-inch interval of a total 18-inch Π sample interval Undisturbed soil sample interval (10YR 4/4) =Soil color according to Munsell Soil Soil sample retained for submittal to analytical Color Charts laboratory msl = Mean sea level 0 No recovery within interval Soils logged according to the USCS. ШШ

#### UNIFIED SOILS CLASSIFICATION SYSTEM (USCS) SUMMARY

	Major Divisions		Graphic	Group Symbol	Typical Description
		Clean Gravels		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
	Gravel and	(≤5% fines)		GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravelly Soils	Gravels with Fines		GM	Silty gravels, gravel-sand-silt mixtures
Coarse-Grained Soils		$(\geq 15\%$ fines)		GC	Clayey gravels, gravel-sand-clay mixtures
(>50% Sands and/or Gravels)		Clean Sands		SW	Well-graded sands, gravelly sands, little or no fines
· · · · · · · · · · · · · · · · · · ·	Sand and Sandy Soils	(≤5% fines)		SP	Poorly-graded sands, gravelly sand, little or no fines
		Sands with Fines		SM	Silty sands, sand-silt mixtures
		$(\geq 15\%$ fines)		SC	Clayey sands, sand-clay mixtures
				ML	Inorganic silts, very fine sands, silty or clayey fine sands, clayey silts with slight plasticity
Fine-Grained	Silts ar		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
Soils (>50% Silts				OL	Organic silts and organic silty clays of low plasticity
and/or Clays)				МН	Inorganic silts, micaceous or diatomaceous fine sand or silty soils
	Silts a	Silts and Clays			Inorganic clays of high plasticity
				ОН	Organic clays of medium to high plasticity, organic silts
Hi	ghly Organic Soils	3	00 00 00 0 00 00 0 00 00 00	PT	Peat, humus, swamp soils with high organic contents





CLIENT NAME

LOCATION

DRILLER

LOGGED BY

REMARKS

3/24/09

REVIEWED BY

JOB/SITE NAME

**PROJECT NUMBER** 

DRILLING METHOD

BORING DIAMETER

Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476 Telephone: 707-935-4850 Fax: 707-935-6649

North corner of former UST pit.

# **BORING/WELL LOG**

Shell Oil Products US	BORING/WELL NAME	SB-3		
Former Shell Service Station	DRILLING STARTED	04-Feb-09		
8930 Bancroft Avenue, Oakland, California		06-Feb-09		
241408-2009	WELL DEVELOPMENT DAT	E (YIELD)	NA	
Gregg Drilling	GROUND SURFACE ELEVA		NA	
Hydraulic push	TOP OF CASING ELEVATIO	N NA		
2"	SCREENED INTERVAL	NA		
C. Rodriquez	DEPTH TO WATER (First Er	countered)	16.0 ft (06-Feb-09)	Σ
A. Friel, PG 6452	DEPTH TO WATER (Static)		NA	Ţ

Δ CONTACT DEPTH (fbg) GRAPHIC LOG (mqq) BLOW Ś DEPTH (fbg) SAMPLE EXTENT U.S.C.( SOIL DESCRIPTION WELL DIAGRAM PID ( PHA ASPHALT 0.5 SILT with Sand (ML); very dark grayish brown (2.5Y 3/2); dry; 10% clay, 70% silt, 15% medium sand, 5% fine 0.2 SB-3-2 gravel; low plasticity. @1' - dry; 10% clay, 75% silt, 15% fine to medium sand; low plasticity. WELL LOG (PID) 1: SONOMA SHELLIG-CHARSV2414--241408-OAKLAND 8930 BANCROFTV241408-GINT LOGSV241408-8930 BANCROFT GPJ DEFAULT GDT 0.4 SB-3-5 @5' - dry; 20% clay, 80% silt; low plasticity. ML. @9' - dark yellowish brown (10YR 4/4). Portland Type I/II 0.0 SB-3-10 SB-3-12 13.0 Clayey GRAVEL with Sand and Silt (GC); dry; 20% clay, 20% silt, 20% fine to coarse sand, 40% fine gravel. GC 15 SB-3-15 ▽ 16.0 SB-3-16-17 W Clayey SILT (ML); moist to wet; 30% clay, 70% silt; medium plasticity. @17' - <u>Sandy SILT with Gravel (ML)</u>; moist; 10% clay, 45% silt, 25% fine to coarse sand, 20% fine gravel; low ML. plasticity. @18' - yellowish brown (10YR 5/6). @19' - dry; 90% silt, 10% medium to fine sand; low 20.0 20 plasticity. Bottom of Boring @ 20 ft 25 30 35

CLIENT NAME

LOCATION

DRILLER

JOB/SITE NAME

PROJECT NUMBER

DRILLING METHOD

BORING DIAMETER

Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476 Telephone: 707-935-4850 Fax: 707-935-6649

Former Shell Service Station

8930 Bancroft Avenue, Oakland, California

Shell Oil Products US

241408-2009

Gregg Drilling

C. Rodriquez

A. Friel, PG 6452

2"

Hydraulic push

# **BORING/WELL LOG**

BORING/WELL NAME	SB-4		
DRILLING STARTED	04-Feb-09		
DRILLING COMPLETED	06-Feb-09		
WELL DEVELOPMENT D	ATE (YIELD)	NA	
GROUND SURFACE ELE	NA		
TOP OF CASING ELEVAT			
SCREENED INTERVAL	NA		
DEPTH TO WATER (First	Encountered)	16.0 ft (06-Feb-09)	Σ
DEPTH TO WATER (Stati	c)	NA	Ţ

REMARKS

LOGGED BY REVIEWED BY

South of former UST pit.

	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
3PJ DEFAULT.GDT 3/24/09	0.0 0.8		SB-4-2 SB-4-5		    	ML		ASPHALT <u>Sandy SILT (ML)</u> ; dark olive brown (2.5Y 3/3); dry; 10% clay, 50% silt, 30% fine to coarse sand, 10% fine gravel; low plasticity. @.5' - <u>SILT with Sand (ML)</u> ; dry; 20% clay, 65% silt, 15% sand; low plasticity. @2' - <u>SILT with trace of fine gravel (ML)</u> ; dry; 15% clay, 85% silt; low plasticity. @5' - brown (10YR 4/3); dry; 15% clay, 80% silt, 5% fine gravel; low plasticity.	-0.3	
SV241408-8930 BANCROFT.C	0.1 0.5 0.2		SB-4-10 SB-4-12		   			<ul> <li>@9' - dark yellowish brown (10YR 4/4); dry; 20% clay, 80% silt, medium plasticity.</li> <li>@11' - olive brown (2.5Y 4/3).</li> <li>@12' - stiff clayey SILT; dark greenish gray (10Y 4/1).</li> </ul>	13.0	Portland Type I/II
CROFT/241408-GINT LOGS	87.5		SB-4-15 SB-4-16- 17 W	Ś	 - 15- 	GC		Clayey GRAVEL with Sand (GC); moist; 20% clay, 10% silt, 30% fine to coase sand, 40% fine to coase gravel. Sandy SILT with Gravel (ML); wet; 10% clay, 45% silt, 25% sand, 20% fine gravel; low plasticity.	16.0	
41408-OAKLAND 8930 BAN	10.7				 -20 - - -			@19' - yellowish brown (10YR 5/6).	20.0	Bottom of Boring @ 20 ft
AA.SHELLVG-CHARSV2414V2					25 -					
WELL LOG (PID) INSONON										,

Conestoga-Rovers & Associates **BORING/WELL LOG** 19449 Riverside Drive, Suite 230 Sonoma, CA 95476 Telephone: 707-935-4850 Fax: 707-935-6649 **CLIENT NAME** Shell Oil Products US BORING/WELL NAME SB-5 JOB/SITE NAME Former Shell Service Station DRILLING STARTED 04-Feb-09 8930 Bancroft Avenue, Oakland, California DRILLING COMPLETED LOCATION 06-Feb-09 **PROJECT NUMBER** 241408-2009 WELL DEVELOPMENT DATE (YIELD) \_ NA DRILLER Gregg Drilling NA **GROUND SURFACE ELEVATION** DRILLING METHOD Hydraulic push TOP OF CASING ELEVATION NA BORING DIAMETER 2" SCREENED INTERVAL NA LOGGED BY C. Rodriguez **DEPTH TO WATER (First Encountered)** 16.0 ft (06-Feb-09) REVIEWED BY A. Friel, PG 6452 **DEPTH TO WATER (Static)** NA REMARKS East NE of former UST pit. ≙ CONTACT DEPTH (fbg) GRAPHIC LOG (mqq) BLOW U.S.C.S. EXTENT DEPTH (fbg) SAMPLE SOIL DESCRIPTION WELL DIAGRAM P DHA ASPHALT 0.3 <u>SILT with Sand (ML)</u>; very dark grayish brown (2.5Y 3/2); dry; 10% clay, 55% silt, 15% medium sand, 20% gravel (some large cobbles, 4 in. long, subangular); low 4.6 SB-5-2 plasticity. @1' - brown (7.5YR 4/4); dry; 10% clay, 70% silt, 15% medium sand, 5% fine gravel; low plasticity. SB-5-5 0.1 @5' - dry, 10% clay, 65% silt, 20% fine to coarse sand, 5% fine gravel; low plasticity. ML @9' - dry; 10% clay, 65% silt, 15% fine to coarse sand: low plasticity. Portland Type I/II SB-5-10 @11' - dark greenish gray (5GY 3/1).

> @12' - SILT (ML); brown (7.5YR 4/4); moist; 100% silt. @12.5' - SILT with Gravel (ML); olive gray (5Y 4/2); moist to wet; 25% clay, 60% silt, 15% fine gravel; low

(2013 - black staining. <u>Clayey GRAVEL with Sand (GC)</u>; moist; 20% clay, 20% silt, 20% fine to coarse sand, 40% fine gravel.

SAND with Silt and Gravel (SP-SM); brown (10YR 4/3); dry to moist; 10% silt, 90% medium sand. @17.5' - dry to moist; 20% clay, 20% silt, 40% fine to coarse sand, 30% fine to coarse gravel.

@18' - olive brown (2.5Y 4/3); dry to moist; 70% silt, 30%

@19' - dark yellowish brown (10YR 4/6); dry to moist; 10% clay, 20% silt, 30% fine to coarse sand, 40% fine gravel.

fine to medium sand; low plasticity.

plasticity.

GC

SP-SN

20

25

30

35

DEFAULT.GDT LOG (PID) #:SONOMA SHELL/6-CHARS/2414--241408-OAKLAND 8930 BANCROFT/241408-GINT LOGS/241408-8930 BANCROFT.GP J WELL I

0.1

0.0

SB-5-12

SB-5-15-

16 W

SB-5-16

3/24/09

14.0

16.5

20.0

⊻

Bottom of Boring @ 20 ft

CLIENT NAME

LOCATION

DRILLER

LOGGED BY REVIEWED BY

REMARKS

JOB/SITE NAME

PROJECT NUMBER

DRILLING METHOD

BORING DIAMETER

Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476 Telephone: 707-935-4850 Fax: 707-935-6649

Former Shell Service Station

8930 Bancroft Avenue, Oakland, California

Shell Oil Products US

241408-2009

Gregg Drilling

Hydraulic push

C. Rodriquez

A. Friel, PG 6452

In former UST pit.

2"

# **BORING/WELL LOG**

 BORING/WELL NAME	V-1		
 DRILLING STARTED	05-Feb-09		
DRILLING COMPLETED	06-Feb-09		
 WELL DEVELOPMENT DA	ATE (YIELD)	NA	
 GROUND SURFACE ELE	VATION _	NA	
 TOP OF CASING ELEVAT			
 SCREENED INTERVAL	NA		
 DEPTH TO WATER (First	Encountered)	15.0 ft (06-Feb-09)	Ϋ́
DEPTH TO WATER (Stati	c)	NA	Ţ

0.5     V-1-2		PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
	WELL LOG (PID) I/SONOMA SHELL/6-CHARS/2414-/241408-0AKI,AND 8330 BANCROFT/241408-GINT LOGS/241408-8930 BANCROFT.GPJ DEFAULT.GDT 3/24/09	0.5 0.2 69.5 238		V-1-2 V-1-5 V-1-14.5 V-1-15-15 V-1-15-5			FILL		ASPHALT <u>SILT (ML)</u> ; brown (10YR 4/3); dry; 15% clay 75% silt, 10% gravel (with subangular gravel up to 3" long); low plasticity. @2' - dry; 20% clay, 65% silt, 15% gravel. @3' - <u>SILT with Sand and Gravel (ML)</u> ; dry; 45% silt, 30% fine to coarse sand, 25% gravel (with gravel up to 3" dia, angular). @5' - <u>SILT (ML)</u> ; dark brown (10YR 3/3); dry; 20% clay, 70% silt, 10% fine to coarse sand (concrete chunks throughout); low plasticity. @ 10' - trace of gravel. <u>SILT (ML)</u> ; dark brown (10YR 3/3); moist; 25% clay, 75% silt, medium plasticity. @ 12 - <u>SILT with Sand (ML)</u> ; moist; 25% clay, 60% silt, 10% medium sand, 5% fine gravel; medium plasticity. <u>Clavev GRAVEL with Sand (GC)</u> ; moist; 20% clay, 15% silt, 25% fine to coarse sand, 40% fine gravel. @15' - moist to wet.	-0.4 -0.4 -11.0 -13.0 -16.0	<ul> <li>Portland Type I/II</li> <li>Bottorn of Boring @ 16 ft</li> </ul>

**CLIENT NAME** 

LOCATION

DRILLER

LOGGED BY REVIEWED BY

REMARKS

JOB/SITE NAME

**PROJECT NUMBER** 

DRILLING METHOD

BORING DIAMETER

Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476 Telephone: 707-935-4850 Fax: 707-935-6649

West of former UST pit.

# **BORING/WELL LOG**

Shell Oil Products US	BORING/WELL NAME	V-2		
Former Shell Service Station	DRILLING STARTED	04-Feb-09		
8930 Bancroft Avenue, Oakland, California	DRILLING COMPLETED	06-Feb-09		
241408-2009	WELL DEVELOPMENT DA	TE (YIELD)	NA	
Gregg Drilling	GROUND SURFACE ELEV		NA	
Hydraulic push	TOP OF CASING ELEVAT	ION NA		
2"	SCREENED INTERVAL	NA		
C. Rodriquez	DEPTH TO WATER (First I	Encountered)	16.0 ft (06-Feb-09)	<u> </u>
A. Friel, PG 6452	DEPTH TO WATER (Static	)	NA	Ţ

CONTACT DEPTH (fbg) ⊵ GRAPHIC LOG (mdd) BLOW DEPTH (fbg) U.S.C.S. SAMPLE EXTEN SOIL DESCRIPTION WELL DIAGRAM DIA SPHA ASPHALT . 0.5 SILT (ML); very dark grayish brown (2.5Y 3/2); dry; 20% clay, 70% silt, 10% medium sand; low plasticity. @1.5' - <u>SILT with Sand (ML)</u>; dark brown (10YR 3/3); dry; 10% clay, 70% silt, 25% fine to coarse sand; low 0.0 V-2-2 MELL LOG (PID) 1:1SONOMA SHELL/6-CHARS/2414-221408-OAKLAND 8330 BANCROFT/241408-GINT LOGS/241408-8330 BANCROFT GPJ DEFAULT GDT 3/24/09 plasticity. @3' - 10% clay, 75% silt, 15% fine to coarse sand. V-2-5 @5' - <u>SILT (ML);</u> dark yellowish brown (10YR 3/4); dry; 20% clay, 70% silt, 10% fine gravel: low plasticity. ML Portland Type I/II 0.0 V-2-10 @10' - dark olive gray (5Y 3/2). 0.0 V-2-12 @13' - olive gray (5Y 4/2); dry to moist; 25% clay, 75% 14.0 silt; medium plasticity <u>Clayey GRAVEL with Sand (GC)</u>; dry; 20% clay, 15% silt, 25% fine to coarse sand; 40% fine gravel. GC 0.6 V-2-15 16.0  $\nabla$ V-2-16-17 W SILT (ML); olive brown (2.5Y 4/3); moist; 40% clay, 60% ML 17.0 silt; medium plasticity. GC KS. Clayey GRAVEL with Sand (GC); dark greenish gray 18.0 (10Y 4/1); moist; 10% clay, 20% silt, 30% fine to coarse sand, 40% fine gravel; low plasticity. Bottom of 20 Boring @ 18 ft 25 30 35

PAGE 1 OF

APPENDIX D

DISPOSAL







February 24, 2009

Dennis Baertschi Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955

Subject: Calscience Work Order No.: 09-02-0950 Client Reference: 8930 Bancroft Ave., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/10/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Philip Samelle for

Calscience Environmental Laboratories, Inc. Jessie Kim Project Manager

CA-ELAP ID: 1230 · NELAP ID: 03220CA · CSDLAC ID: 10109 · SCAQMD ID: 93LA0830 7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501







Conestoga-I	Rovers & Assoc	ciates		Date Re	ceived	:	02/10/09				
19449 River	side Drive, Suit	e 230			Work Or	rder No	):	09-02-0950			
Sonoma, CA	\$ 95476-6955				Preparation: FPA			3050B / EPA 7471A Total			
					Method:			EPA 601	0B / EPA	7471	А
					Linits:				027217	ma/k	in and a second
Drojacti 902	D Poporoft Ave	Ookland	<u>_</u> ^		Offico.				Dee	- 4 - 4	4
Project. 693	DU DANCIUN AVE	., Oakianu, (	CA						Pag	e 1 or	1
Client Sample Nu	mber		Lab Sample Number		Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Ba	tch ID
CRA-A			09-02-0950-	4-A	02/06/09 16:00	Solid	ICP 5300	02/10/09	02/12/09 00:12	09021	0L02
Comment(s):	-Mercury was analyz	ed on 2/10/2009 5	5:30:00 PM with	batch 09	90210L03						
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	Parameter		<u>Result</u>	<u>RL</u>		DF	Qual
Antimony	ND	0.750	1		Mercury		0.0885	0.083	35	1	
Arsenic	7.71	0.750	1		Molybdenum	1	ND	0.250	0	1	
Barium	162	0.500	1		Nickel		42.1	0.250	)	1	
Beryllium	0.625	0.250	1		Selenium		ND	0.750	)	1	
Cadmium	ND	1		Silver		ND	0.250	)	1		
Chromium	49.6	0.250	1		Thallium		ND	0.750		1	
Cobalt	12.5	0.250	1		Vanadium		57.9	0.250	)	1	
Copper	32.0	0.500	1		Zinc		54.1	1.00		1	
Lead	8.80	0.500	1								
Method Blank			099-04-007-	6,121	N/A	Solid	Mercury	02/10/09	02/10/09 16:18	09021	0L03
Parameter	Result	<u>RL</u>	DF	<u>Qual</u>							
Mercury	ND	0.0835	1								
Method Blank			097-01-002-	12,056	N/A	Solid	ICP 5300	02/10/09	02/11/09 23:39	09021	0L02
_					_						- ·
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter		<u>Result</u>	<u>RL</u>	_		Qual
Antimony	ND	0.750	1		Lead		ND	0.500	)	1	
Arsenic	ND	0.750	1		Molybdenum	1	ND	0.250	J	1	
Barium	ND	0.500	1		Nickel		ND	0.250	J	1	
Beryllium		0.250	1		Selenium			0.750	J	1	
Cadmium		0.500	1		Silver			0.250	)	1	
Chromium		0.250	1		I hallium			0.750	J	1	
Cobalt		0.250	1		vanadium			0.250	J	1	
Copper	ND	0.500	1		∠inc		ND	1.00		1	



# alscience nvironmental aboratories, Inc.

Conestoga-Rovers & Associates	Date Received:	02/10/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0950
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Numbe	r		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A			09-02-0950-4-A	02/06/09 16:00	Solid	GC 48	02/10/09	02/10/09 22:49	090210B06
Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation									
Parameter		<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Diesel Range Organic	S	24	5.0	1		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl		112	61-145						
Method Blank			099-12-025-623	N/A	Solid	GC 48	02/10/09	02/10/09 19:21	090210B06
Parameter		<u>Result</u>	<u>RL</u>	DE	Qual	<u>Units</u>			
Diesel Range Organic	s	ND	5.0	1		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl		116	61-145						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Page 3 of 19

N ACCORD

Page 1 of 1

## Page 4 of 19



anelac Market

Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method: 02/10/09 09-02-0950 EPA 3550B EPA 8015B (M)

Page 1 of 1

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A		09-02-0950-4-A	02/06/09 16:00	Solid	GC 48	02/10/09	02/10/09 22:49	090210B07
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	33	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	112	61-145						
Method Blank		099-12-254-678	N/A	Solid	GC 48	02/10/09	02/10/09 19:21	090210B07
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenvl	116	61-145						



## Page 5 of 19

Page 1 of 1



**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/10/09Work Order No:09-02-0950Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La N	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A			09-02-0	950-4-A	02/06/09 16:00	Solid	GC/MS UU	02/17/09	02/18/09 05:31	090217L02
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual	Parameter			Result	<u>RL</u> D	<u>F Qual</u>
Benzene	ND	0.0050	1		Xylenes (total)			ND	0.0050	1
Ethylbenzene	ND	0.0050	1		ТРРН			ND	0.50	1
Toluene	ND	0.0050	1							
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>
Dibromofluoromethane	101	73-139			1,2-Dichloroetha	ane-d4		109	73-145	
Toluene-d8	100	90-108			1,4-Bromofluoro	benzene		95	71-113	
Toluene-d8-TPPH	99	88-112								
Method Blank			099-12-	798-281	N/A	Solid	GC/MS UU	02/17/09	02/18/09 01:27	090217L02
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter			Result	<u>RL</u> D	<u>F Qual</u>
Benzene	ND	0.0050	1		Xylenes (total)			ND	0.0050	1
Ethylbenzene	ND	0.0050	1		TPPH			ND	0.50	1
Toluene	ND	0.0050	1							
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits	Qual
Dibromofluoromethane	109	73-139			1,2-Dichloroetha	ane-d4		115	73-145	
Toluene-d8	100	90-108			1,4-Bromofluoro	benzene		91	71-113	
Toluene-d8-TPPH	99	88-112								



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7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 ·

FAX: (714) 894-7501





Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 
 Date Received:
 02/10/09

 Work Order No:
 09-02-0950

 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

#### Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-02-0927-5	Solid	ICP 5300	02/10/09		02/11/09	090210S02
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	37	33	50-115	11	0-20	3
Arsenic	100	104	75-125	3	0-20	
Barium	75	119	75-125	9	0-20	
Beryllium	103	105	75-125	2	0-20	
Cadmium	102	103	75-125	2	0-20	
Chromium	99	130	75-125	17	0-20	3
Cobalt	102	109	75-125	5	0-20	
Copper	104	116	75-125	7	0-20	
Lead	113	103	75-125	7	0-20	
Molybdenum	105	108	75-125	3	0-20	
Nickel	96	106	75-125	7	0-20	
Selenium	99	101	75-125	2	0-20	
Silver	110	110	75-125	0	0-20	
Thallium	85	79	75-125	8	0-20	
Vanadium	93	109	75-125	8	0-20	
Zinc	92	172	75-125	23	0-20	4,3

RPD - Relative Percent Difference, CL - Control Limit

MM





Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955

Date Received: Work Order No: Preparation: Method:

## 02/10/09 09-02-0950 EPA 3550B EPA 8015B

#### Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-02-0805-21	Solid	GC 48	02/10/09		02/10/09	090210S06
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Diesel Range Organics	115	109	64-130	4	0-15	

RPD - Relative Percent Difference, CL - Control Limit





# sonelac E

Conestoga-Rovers & Associates	
19449 Riverside Drive, Suite 230	
Sonoma, CA 95476-6955	

Date Received: Work Order No: Preparation: Method:

02/10/09
09-02-0950
EPA 3550B
EPA 8015B (M)

#### Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-0805-21	Solid	GC 48	02/10/09	02/10/09	090210S07
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u> <u>RP</u>	D CL Qualifiers
TPH as Motor Oil	103	107	64-130	4 0	)-15

RPD - Relative Percent Difference, CL - Control Limit

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Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method: 02/10/09 09-02-0950 EPA 7471A Total EPA 7471A

#### Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-02-0712-4	Solid	Mercury	02/10/09		02/10/09	090210S03
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
Moroury	104	102	71 197	2	0.14	
ivier cury	104	102	11-131	2	0-14	

RPD - Relative Percent Difference, CL - Control Limit







Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method: 02/10/09 09-02-0950 EPA 5030B LUFT GC/MS / EPA 8260B

#### Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-02-0932-2	Solid	GC/MS UU	02/17/09		02/18/09	090217S02
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	102	102	79-115	0	0-13	
Carbon Tetrachloride	112	110	55-139	1	0-15	
Chlorobenzene	95	96	79-115	0	0-17	
1,2-Dibromoethane	101	100	70-130	1	0-30	
1,2-Dichlorobenzene	92	90	63-123	1	0-23	
1,1-Dichloroethene	102	102	69-123	0	0-16	
Ethylbenzene	99	99	70-130	1	0-30	
Toluene	96	97	79-115	1	0-15	
Trichloroethene	96	96	66-144	0	0-14	
Vinyl Chloride	91	93	60-126	2	0-14	
Methyl-t-Butyl Ether (MTBE)	98	101	68-128	2	0-14	
Tert-Butyl Alcohol (TBA)	97	97	44-134	0	0-37	
Diisopropyl Ether (DIPE)	113	112	75-123	0	0-12	
Ethyl-t-Butyl Ether (ETBE)	106	108	75-117	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	103	79-115	2	0-12	
Ethanol	93	74	42-138	23	0-28	

RPD - Relative Percent Difference, CL - Control Limit

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Conestoga-Rovers & Associates	
19449 Riverside Drive, Suite 230	
Sonoma, CA 95476-6955	

Date Received: Work Order No: Preparation: Method:

	N/A
09-02	2-0950
EPA	3050B
EPA	6010B

#### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal <u>y</u>	ite yzed	LCS/LCSD Numbe	Batch r
097-01-002-12,056	Solid	ICP 5300	02/10/09	02/11/	/09	090210L	02
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	RPD CL	<b>Qualifiers</b>
Antimony	103	104	80-120	73-127	1	0-20	
Arsenic	106	107	80-120	73-127	2	0-20	
Barium	115	116	80-120	73-127	1	0-20	
Beryllium	106	107	80-120	73-127	1	0-20	
Cadmium	115	115	80-120	73-127	0	0-20	
Chromium	110	111	80-120	73-127	0	0-20	
Cobalt	117	117	80-120	73-127	0	0-20	
Copper	113	114	80-120	73-127	1	0-20	
Lead	113	115	80-120	73-127	2	0-20	
Molybdenum	112	114	80-120	73-127	1	0-20	
Nickel	115	117	80-120	73-127	1	0-20	
Selenium	102	103	80-120	73-127	1	0-20	
Silver	115	115	80-120	73-127	1	0-20	
Thallium	106	108	80-120	73-127	2	0-20	
Vanadium	109	110	80-120	73-127	1	0-20	
Zinc	111	111	80-120	73-127	0	0-20	

Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

hM

RPD - Relative Percent Difference, CL - Control Limit



# wanelac w

Date Received:	N/A
Work Order No:	09-02-0950
Preparation:	EPA 3550B
Method:	EPA 8015B
	Date Received: Work Order No: Preparation: Method:

#### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da d Anal	ite yzed	LCS/LCSD Batc Number	h
099-12-025-623	Solid	GC 48	02/10/09	9 02/10	)/09	090210B06	
Dorometor			0/ DEC		חספ		Qualifiara
Parameter	<u>LC3 7</u>	<u>KEC</u> <u>LCSD</u>	%REC	<u>%REC CL</u>	RPD	RPD CL	Quaimers
Diesel Range Organics	91	92		75-123	2	0-12	

RPD - Relative Percent Difference, CL - Control Limit





# anelac M

Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0950
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)

#### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrun	D nent Prej	ate oared	Date Analyze	ed	LCS/LCSD Batc Number	h
099-12-254-678	Solid	GC 4	8 02/1	0/09	02/10/09	Ð	090210B07	
Parameter	LCS %	6REC	LCSD %REC	<u>%RE</u>	C CL	<u>RPD</u>	RPD CL	Qualifiers
TPH as Motor Oil	93		92	75-	123	1	0-12	

RPD - Relative Percent Difference, CL - Control Limit





# the nelac

Date Received:	N/A
Work Order No:	09-02-0950
Preparation:	EPA 7471A Total
Method:	EPA 7471A
	Date Received: Work Order No: Preparation: Method:

#### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrume	Da ent Prep	ate bared	Date Analyzed	LCS/LCSD Batc Number	h
099-04-007-6,121	Solid	Mercur	y 02/1	0/09	02/10/09	090210L03	
Parameter	LCS %	REC L	CSD %REC	<u>%REC C</u>	<u>RPD</u>	RPD CL	Qualifiers
Mercury	98		99	85-121	1	0-10	

RPD - Relative Percent Difference, CL - Control Limit







Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method: N/A 09-02-0950 EPA 5030B LUFT GC/MS / EPA 8260B

#### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD E Number	Batch
099-12-798-281	Solid	GC/MS UU	02/17/09	02/18/	09	090217L0	)2
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	RPD CL	Qualifiers
Benzene	103	102	84-114	79-119	1	0-7	
Carbon Tetrachloride	110	107	66-132	55-143	3	0-12	
Chlorobenzene	101	99	87-111	83-115	3	0-7	
1,2-Dibromoethane	102	102	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	99	100	79-115	73-121	1	0-8	
1,1-Dichloroethene	104	101	73-121	65-129	3	0-12	
Ethylbenzene	104	102	80-120	73-127	2	0-20	
Toluene	99	99	78-114	72-120	0	0-7	
Trichloroethene	104	102	84-114	79-119	2	0-8	
Vinyl Chloride	94	92	63-129	52-140	2	0-15	
Methyl-t-Butyl Ether (MTBE)	103	105	77-125	69-133	1	0-11	
Tert-Butyl Alcohol (TBA)	94	97	47-137	32-152	3	0-27	
Diisopropyl Ether (DIPE)	112	113	76-130	67-139	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	108	110	76-124	68-132	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	108	82-118	76-124	2	0-11	
Ethanol	104	100	59-131	47-143	4	0-21	
ТРРН	85	83	65-135	53-147	2	0-30	

 Total number of LCS compounds :
 17

 Total number of ME compounds :
 0

 Total number of ME compounds allowed :
 1

 LCS ME CL validation result :
 Pass

~ M

RPD - Relative Percent Difference, CL - Control Limit



MM



Work Order Number: 09-02-0950

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
А	Result is the average of all dilutions, as defined by the method.
В	Analyte was present in the associated method blank.
С	Analyte presence was not confirmed on primary column.
Е	Concentration exceeds the calibration range.
Н	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
Ν	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
Х	% Recovery and/or RPD out-of-range.

Z Analyte presence was not confirmed by second column or GC/MS analysis.

#### LAB (LOCATION)

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# Shell Oil Products Chain Of Custody Record

CALSCIENCE ()		PI	ease Chec	k Ap	naora	iate	Box		Pr	int	Bill	To C	Conta	ict N	ame					1.10		FNT	# (F	NV	SEG	2 Vir	(FS)	1		
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Page 18 of 19,

## **Contingent analyses**

- Organic lead required if TTLC lead  $\geq$  13 mg/kg
- Aquatic bioassay required if any TPH (gasoline, diesel, or motor oil)  $\geq$  5,000 mg/kg
- TCLP benzene required if benzene  $\geq 10 \text{ mg/kg}$
- TCLP and STLC required for metals per table below

······································		
Matal	Trigger level	
Ivietai	1 ILC (ma/lea)	Requirement
	(ing/kg)	
Antimony	150	STLC required if TTLC $\geq$ 150 mg/kg
		STLC required if TTLC $\geq$ 50 mg/kg;
Arsenic	50/100	STLC and TCLP required if TTLC $\geq$ 100 mg/kg
		STLC required if TTLC $\geq$ 1,000 mg/kg;
Barium	1,000/2,000	STLC and TCLP required if TTLC $\geq$ 2,000 mg/kg
Beryllium	7.5	STLC required if TTLC $\geq$ 7.5 mg/kg
		STLC required if TTLC $\geq 10 \text{ mg/kg}$ ;
Cadmium	10/20	STLC and TCLP required if TTLC $\geq$ 20 mg/kg
		STLC required if TTLC $\geq$ 50 mg/kg;
Chromium	50/100	STLC and TCLP required if TTLC $\geq$ 100 mg/kg
Cobalt	800	STLC required if TTLC $\geq$ 800 mg/kg
Copper	250	STLC required if TTLC $\geq$ 250 mg/kg
		STLC required if TTLC $\geq$ 50 mg/kg;
Lead	50/100	STLC and TCLP required if TTLC $\geq$ 100 mg/kg
		STLC required if TTLC $\geq 2 \text{ mg/kg}$ ;
Mercury	2/4	STLC and TCLP required if TTLC $\geq$ 4 mg/kg
Molybdenum	350	STLC required if TTLC $\geq$ 350 mg/kg
Nickel	200	STLC required if TTLC $\geq$ 200 mg/kg
		STLC required if TTLC $\geq 10 \text{ mg/kg}$ ;
Selenium	10/20	STLC and TCLP required if TTLC $\geq$ 20 mg/kg
		STLC required if TTLC $\geq$ 50 mg/kg;
Silver	50/100	STLC and TCLP required if TTLC $\geq$ 100 mg/kg
Thallium	70	STLC required if TTLC $\geq$ 70 mg/kg $\cdot$
Vanadium	240	STLC required if TTLC $\geq$ 240 mg/kg
Zinc	2,500	STLC required if TTLC $\geq$ 2,500 mg/kg *

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			Page 19 of 19
Caleciance - WORK ORDER #	: 09-Ø	2_	0950
Environmental			
Laboratories, Inc. SAMPLE RECEIPT	FORM	Coo	ler <u> </u> of <u> </u>
CLIENT:CRA	DA	те: <u>0</u>	2/10/09
TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)	,		
Temperature <u>2.3</u> °C - 0.2°C (CF) = <u>2.1</u> °	C 🖬 Bla	nk 🗆	] Sample
Sample(s) outside temperature criteria (PM/APM contacted by:	).		
□ Sample(s) outside temperature criteria but received on ice/chilled on	same day of s	ampling.	
☐ Received at ambient temperature, placed on ice for transport	by Courier.	,	
Ambient Temperature:	PCBs Only		Initial:
	resent 🗆	NI/A	Initial: 10
	resent	IN/ <i>/</i> 7	
	esent		
SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	Þ		
COC document(s) received complete	Ø		
Sampler's name indicated on COC	Ø		
Sample container label(s) consistent with COC	Ø		
Sample container(s) intact and good condition	ø		
Correct containers and volume for analyses requested	Ø		
Analyses received within holding time	ø		
Proper preservation noted on COC or sample container	, D		Ø
Volatile analysis container(s) free of headspace			Į <b>z</b>
Tedlar bag(s) free of condensation			
CONTAINER TYPE:			,
Solid: □4ozCGJ □8ozCGJ □16ozCGJ ØSleeve □EnCores®	□ □ TerraC	ores® [	
Water: UVOA UVOAh UVOAna <sub>2</sub> U125AGB U125AGBh	□125AGBp	o₄ □1A	GB □1AGBna <sub>2</sub>
□1AGBs □500AGB □500AGBs □250CGB □250CGBs □1	PB □500P	B □500	PBna □250PB
□250PBn □125PB □125PBznna □100PBsterile □100PBna	2 🗋_		
Air: □Tedlar® □Summa® □	Che	- cked/Lab	$\frac{1}{2} = \frac{1}{2} $
Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle		Revie	ewed by: <u>PS</u>
Preservative: h:HCL n:HNO <sub>3</sub> na <sub>2</sub> :Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> na:NaOH po <sub>4</sub> :H <sub>3</sub> PO <sub>4</sub> s:H <sub>2</sub> SO <sub>4</sub> znna	a:ZnAc₂+NaOH	Sca	nned by: <u>)).</u> (

SOP T100\_090 (12/10/08)

APPENDIX E

CERTIFIED ANALYTICAL REPORTS







February 23, 2009

Dennis Baertschi Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955

Subject: Calscience Work Order No.: 09-02-0794 Client Reference: 8930 Bancroft Ave., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/7/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Philip Samelle for

Calscience Environmental Laboratories, Inc. Jessie Kim Project Manager

CA-ELAP ID: 1230 · NELAP ID: 03220CA · CSDLAC ID: 10109 · SCAQMD ID: 93LA0830 7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

## Page 2 of 10

Page 1 of 1



Conestoga-Rovers & Associates	Date Received:	02/07/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0794
Sonoma, CA 95476-6955	Preparation:	N/A
	Method:	EPA TO-3M

#### Project: 8930 Bancroft Ave., Oakland, CA

ent Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-1		09-02-0794-1-A	02/05/09 11:40	Air	GC 13	N/A	02/07/09 14:10	090207L02
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline	ND	9100	1.59		ug/m3			
V-2		09-02-0794-2-A	02/05/09 12:29	Air	GC 13	N/A	02/07/09 14:23	090207L02
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
TPH as Gasoline	ND	10000	1.75		ug/m3			
AMBIENT AIR		09-02-0794-3-A	02/05/09 14:45	Air	GC 13	N/A	02/07/09 14:35	090207L02
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline	ND	8600	1.5		ug/m3			
DUPLICATE (V-2)		09-02-0794-4-A	02/05/09 12:29	Air	GC 13	N/A	02/07/09 14:49	090207L02
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline	ND	9900	1.72		ug/m3			
TRIP BLANK		09-02-0794-5-A	02/05/09 00:00	Air	GC 13	N/A	02/07/09 12:15	090207L02
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline	ND	5700	1		ug/m3			
Method Blank		098-01-005-1,672	N/A	Air	GC 13	N/A	02/07/09 10:02	090207L02
Parameter	Result	RL	DF	Qual	<u>Units</u>			
TPH as Gasoline	ND	5700	1		ug/m3			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Page 3 of 10

02/07/09



Date Received:



Conestoga-Rovers & Associates 19 So

19449 Riverside Drive, Suite 230				Work Order No:						09-02-0794			
Sonoma, CA 95476-6955				Preparation:									
				Method:					E				
					Lipito:				EPA 10-15				
					Units.					uy/ms			
Project: 8930 Bancrof	t Ave., Oak	land, C	A						P	age 1 of 2			
			La	b Sample	Date/Time		_	Date	Date/Time	9			
Client Sample Number			1	Number	Collected	Matrix	Instrument	Prepared	Analyzed	QC Batch ID			
V-1			09-02-0	)794-1-A	02/05/09 11:40	Air	GC/MS DD	N/A	02/07/09 20:38	090207L01			
Parameter	Result	RI	DF	Qual	Parameter			Result	RI I	OF Qual			
Benzene	21	2.5	<u></u> 1 50		Toluene			33	3.0 2	1 59			
Ethylbenzene	56	2.5	1.55		Propane			87	43 ·	1.55			
Methyl-t-Butyl Ether (MTBE)	ND	11	1.53		Butane			56	10 ·	1.59			
Xylenes (total)	ND	14	1.55		Isobutane			37	10 /	1.55			
Tert-Butyl Alcohol (TBA)	10	96	1.53		10000110			01	15	1.55			
Surrogates:	<u>REC (%)</u>	<u>Control</u>	1.58	<u>Qual</u>	Surrogates:		<u>F</u>	<u>REC (%)</u>	<u>Control</u>	Qual			
1,4-Bromofluorobenzene	86	57-129			1,2-Dichloroet	hane-d4		94	47-137				
Toluene-d8	101	78-156											
V-2			09-02-0	)794-2-A	02/05/09 12:29	Air	GC/MS DD	N/A	02/07/09 21:27	090207L01			
Parameter	Result	RL	DF	Qual	Parameter			Result	RL [	DF Qual			
Benzene	13	2.8	1 75		Toluene			40	33 .	1 75			
Ethylbenzene	67	3.8	1.70		Propane			ND	47 -	1.75			
Methyl-t-Butyl Ether (MTBE)	ND	13	1.70		Butane		42		21 1 75				
Xylenes (total)	ND	15	1.70		Isobutane		43		21 1.75				
Tert-Butyl Alcohol (TBA)	13	11	1.70		10000414110				21	1.70			
Surrogates:	<u>REC (%)</u>	<u>Control</u>	1.10	<u>Qual</u>	Surrogates:		E	<u>REC (%)</u>	<u>Control</u>	Qual			
1,4-Bromofluorobenzene	86	57-129			1,2-Dichloroet	hane-d4		92	47-137				
Toluene-d8	99	78-156											
AMBIENT AIR			09-02-0	)794-3-A	02/05/09 14:45	Air	GC/MS DD	N/A	02/07/09 22:19	090207L01			
Parameter	Result	RI	DF	Qual	Parameter			Result	RI	DF Qual			
Benzene	ND	24	<u></u> 	<u>acuu</u>	Tolueno			5 0	20	1 E			
Ethylhonzono		2.4	1.5		Bronono			5.9 ND	2.0	1.0 4 F			
Lanyidenzene Methyl-t-Butyl Ether (MTRE)		0.0 11	1.5		Butane				-+ I 10	1.0			
Videnes (total)		12	1.5						10	1.0 1 E			
Ayici les (lulai)		0.1	1.5		ISODUIGITE				10	G.1			
Lett-Dutyl Alcohol (TDA)		9.1 Control	1.5	Qual	Surrogatos				Control	Qual			
Sundyales.	<u>reu (%)</u>	L imite		Qual	Surroyales.		<u>F</u>		Limite	Qual			
1.4-Bromofluorobenzene	82	57-129			1.2-Dichloroet	hane-d4		91	47-137				
Toluene-d8	99	78-156			,								

DF - Dilution Factor RL - Reporting Limit , Qual - Qualifiers ,



## Page 4 of 10

02/07/09



Date Received:



Conestoga-Rovers & Associates 19 S

19449 Riverside Drive,		Work Order No:							09-02-0794			
Sonoma, CA 95476-6955				Preparation:							N/A	
				Method:								
			Linita:			EPA 10-15						
					Units.						uy/ms	
Project: 8930 Bancrof	t Ave., Oak	land, C	A							<sup>2</sup> age	e 2 of 2	
			La	b Sample	Date/Time			Date	Date/Tir	ne		
Client Sample Number			1	Number	Collected	Matrix	Instrument	Prepared	d Analyze	ed Q	C Batch ID	
DUPLICATE (V-2)			09-02-0	)794-4-A	02/05/09 12:29	Air	GC/MS DD	N/A	02/07/0 23:06	9 0	90207L01	
Parameter	Result	RL	DF	Qual	Parameter			Result	RL	DF	Qual	
Benzene	14	27	1 72		Toluene			41	32	1 72		
Ethylbenzene	77	37	1 72		Propane			ND	47	1 72		
Methyl-t-Butyl Ether (MTBE)	ND	12	1.72		Butane			42	20	1.72		
Xylenes (total)	22	12	1.72		Isobutane			45	20	1.72		
Tert-Butyl Alcohol (TBA)	26	10	1.72		19090414110			40	20	1.72		
Surrogates:	<u>REC (%)</u>	<u>Control</u>	1.72	<u>Qual</u>	Surrogates:		<u> </u>	<u>REC (%)</u>	<u>Control</u>	<u>(</u>	Qual	
1 4-Bromofluorobenzene	Q1	57-120			1 2-Dichloroet	hano-d4		92	<u>LIIIIIS</u> 47-137			
Toluene-d8	100	78-156						52	47-107			
TRIP BLANK			09-02-0794-5-A		02/05/09 00:00	Air	GC/MS DD	N/A	02/07/09 09 19:48		90207L01	
Parameter	Result	RL	DF	Qual	Parameter			Result	RL	DF	Qual	
Benzene	ND	1.6	1		Toluene			ND	1.9	1		
Ethvlbenzene	ND	2.2	1		Propane			ND	27	1		
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1		Butane			ND	12	1		
Xylenes (total)	ND	8.7	1		Isobutane			ND	12	1		
Tert-Butyl Alcohol (TBA)	ND	6.1	1						.=	•		
Surrogates:	<u>REC (%)</u>	Control		<u>Qual</u>	Surrogates:		<u>F</u>	<u>REC (%)</u>	<u>Control</u>	<u> </u>	Qual	
1 4-Bromofluorobenzene	89	<u>Limits</u> 57-120			1 2-Dichloroet	hano-d4	03		LIMITS			
Toluene-d8	99	78-156						00	11-101			
Method Blank			095-01	-021-7,208	3 N/A	Air	GC/MS DD	N/A	02/07/0 14:07	9 09	90207L01	
Deserveter	Deeuli		DE	Quel	Deveryoter			Desult	DI		Quel	
	Kesuit	KL		Qual	Parameter			Result	<u>KL</u>		Qual	
Benzene	ND	1.6	1		I oluene			ND	1.9	1		
Ethylbenzene	ND	2.2	1		Propane			ND	27	1		
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1		Butane			ND	12	1		
Xylenes (total)	ND	8.7	1		Isobutane			ND	12	1		
Tert-Butyl Alcohol (TBA)	ND	6.1	1		_							
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:		<u>F</u>	<u>REC (%)</u>	<u>Control</u> Limits	<u>(</u>	Qual	
1,4-Bromofluorobenzene	93	57-129			1,2-Dichloroet	hane-d4		118	47-137			
I OIUENE-08	100	78-156										

DF - Dilution Factor RL - Reporting Limit , Qual - Qualifiers ,

n M




Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method: 02/07/09 09-02-0794 N/A EPA TO-3M

#### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
09-02-0701-4	Air	GC 13	N/A	02/07/09	090207D02
Parameter	Sample Conc	DUP Conc	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
TPH as Gasoline	44000	44000	0	0-20	

RPD - Relative Percent Difference, CL - Control Limit



N/A

N/A





Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: Work Order No: 09-02-0794 Preparation: Method: **EPA TO-15** 

#### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Date Date atrix Instrument Prepared Analyzed		ite yzed	LCS/LCSD Numbe	Batch r	
095-01-021-7,208	Air	GC/MS DD	N/A	02/07/	/09	090207L	D1
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	RPD CL	Qualifiers
Benzene	120	125	60-156	44-172	4	0-40	
Carbon Tetrachloride	119	134	64-154	49-169	11	0-32	
1,2-Dibromoethane	117	125	54-144	39-159	7	0-36	
1,2-Dichlorobenzene	120	136	34-160	13-181	12	0-47	
1,2-Dichloroethane	122	139	69-153	55-167	13	0-30	
1,2-Dichloropropane	123	129	67-157	52-172	5	0-35	
1,4-Dichlorobenzene	133	149	36-156	16-176	11	0-47	
c-1,3-Dichloropropene	134	145	61-157	45-173	7	0-35	
Ethylbenzene	121	129	52-154	35-171	6	0-38	
o-Xylene	117	128	52-148	36-164	8	0-38	
p/m-Xylene	113	122	42-156	23-175	7	0-41	
Tetrachloroethene	118	125	56-152	40-168	6	0-40	
Toluene	114	119	56-146	41-161	4	0-43	
Trichloroethene	123	133	63-159	47-175	8	0-34	
1,1,2-Trichloroethane	130	139	65-149	51-163	7	0-37	
Vinyl Chloride	123	129	45-177	23-199	5	0-36	

Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

nM

RPD - Relative Percent Difference, CL - Control Limit



hM



Work Order Number: 09-02-0794

<u>Qualifier</u>	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
А	Result is the average of all dilutions, as defined by the method.
В	Analyte was present in the associated method blank.
С	Analyte presence was not confirmed on primary column.
Е	Concentration exceeds the calibration range.
Н	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
Ν	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
Х	% Recovery and/or RPD out-of-range.

Z Analyte presence was not confirmed by second column or GC/MS analysis.

LAB: TA	
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LAB: TA
TA - Irvine, California

## SHELL Chain Of Custody Record

TA - Morgan Hil	II, California	NAME OF PER	SON TO	D BILL:	Denis	Brown							INCIDENT # (ES ONLY)				_Y)								
TA - Sacrament	ta, California	ENVIRONMENTAL S	SERVICES					CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES					9	9 8 9 9 5 7 4 2			2	Date <sup>.</sup>	TISINA						
Calscience	Tennesee				CONSULTA	NT						PO	#						SAP	or CR	MT#			Date.	-13/09
Other				🗍 RM	I/CRMT		<u></u>		1	1	1	<u>1</u>	1			40443		<u></u>		1	<u></u>			PAGE	: of
SAMPLING COMPANY:			LOG CODE:				SIT	E ADDF	RESS: S	itreet an	d City	<u> </u>					State		G	.08AL ID	NO.:				
Conestoga-Ro	vers & Asso	ociates (CRA)	CRAW				89	30 E	Ban	crof	t Av	ve, C	Dak	and			CA								
ADDRESS: 19449 Riversid	le Drive. Sui	te 230. Sonoma. CA	. 95476				EDF	DELIVER	ABLE TO	(Name, C	Company	, Office I	Location)		PHO	NE NO.:			E-M	AIL:					CONSULTANT PROJECT NO .:
PROJECT CONTACT (F	Hardcopy or PDF Rep	ort to):					Bal	lard,	Felic	ia, CF	2A, S	onon	na	-	70	7-935-4	850		so	noma	edf@c	raworl	ld.com		241408-2008-10
Dennis Baerts	chi	FAX:	E-MAIL		<u> </u>		SAN	IPLER NA	AME(S) (I	Print):													LAB	USE ONL	×
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LA - RWQCB R	REPORT FORMAT												6												*
SPECIAL INSTRUC	CTIONS OR NO	TES:		NEEDED		s					1		CM												FIELD NOTES:
				IMB RATE	APPLIES	-						1	15, G						1						Container/Preservative
		6	RECEIPT	VERIFICAT	ION REQUE	STED							Ė												or PID Readings or Laboratory Notes
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please repor	rt results in p	µg/m3						acta	2)	15)		2, &	butai										1		
No partial lab reg	ports, send final	PDF report only.					ğ	Ext	5	è	0-15	00	ane,												
	ld Sample	Identification	SAM	PLING TIME	MATRIX	NO, OF CONT.	DHg (	PHdT	BTEX	MTBE	TBA (T	02 + A	Isobut											TEM	PERATURE ON RECEIPT C°
/ V-1-			z/5	440	Ar	1	x		x	x	x		x							Τ			$\uparrow$	Sun	
<b>2</b> ∨-2-			2/5/09	12:29	Air	1	X		×	x	¥		x											Sun	nma ID: 46 37)
	NT AIR		215	1445	Air	1	X		x	×	x		x											Sun	nma ID: LC ]02
4 DUPLI	CATE (	<u>v-2)</u>	2509	12:29	ALC		×		×	*	×		×											Sun	nma ID: LC YYP
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Page 8 of 10

- NA		#. <b>N9_</b> 0	] [2] _ [	Page 9 6 آ آ 6	of 10
Laiscience V		#. 00- 0	Boy		
Laboratories, Inc. SAMPLE	RECEIPT	FORM	Gool	ero	f <u>/</u>
CLIENT: CRA		DA	TE:	- 1 07 1	09
TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not	frozen)				
Temperature°C - 0.2 °C (CF)	= <u> </u>	°C 🗆 Bla	ink 🗆	Sample	
Sample(s) outside temperature criteria (PM/API 	A contacted by:	).			
□ Sample(s) outside temperature criteria but rece	ived on ice/chilled or	n same day of s	sampling.		
□ Received at ambient temperature, placed of	on ice for transpo	rt by Courier	•		D.(_
Ambient Temperature: Z Air L Filter L	Metals Only			Initial:	<u> </u>
CUSTODY SEALS INTACT:					<b>b</b> /
□ Cooler □ □ No (Not	Intact) 🛛 🗹 Not	Present 🗆	] N/A	Initial:	<i>v.C</i>
□ Sample □ □ No (Not	Intact) Z Not	Present		Initial:	RN
SAMPLE CONDITION:		Yes	No	N/A	
Chain-Of-Custody (COC) document(s) received	with samples				
COC document(s) received complete		. 🗹			
Sampler's name indicated on COC		. 🗹			
Sample container label(s) consistent with COC		. 🗆			
Sample container(s) intact and good condition		. 🗹			
Correct containers and volume for analyses requ	lested	. 🗹			
Analyses received within holding time					
Proper preservation noted on COC or sample co	ontainer			Z	
Volatile analysis container(s) free of headspace.				Z	
Tedlar bag(s) free of condensation					
CONTAINER TYPE:					
Solid: □4ozCGJ □8ozCGJ □16ozCGJ □	Sleeve 🗆 EnCore	s® □TerraC	Cores® [	<b></b>	
Water: □VOA □VOAh □VOAna₂ □125	AGB 🗆 125AGBł	n □125AGB	po₄ □1A	GB □1AC	GBna <sub>2</sub>
□1AGBs □500AGB □500AGBs □250CGE	B □250CGBs □	]1PB □500F	PB □500	)PBna □2	50PB
□250PBn □125PB □125PBznna □100PB	sterile □100PBr	na₂ □			
Air: Tedlar® ZSumma® Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Ja Presentation: http://www.stacs.org/active.com/	r <b>B</b> :Bottle		ecked/Lab Revie	eled by: ewed by: _ <u>i/</u> nned by:	<u>KN</u> J.S.C RN
FIESERVATIVE: IT. TOL IT. TINU3 $na_2:Na_2S_2U_3$ in a tradition p	U4.173FU4 S:172OU4 Z	ma.znAc2+NaOH	Jua		1.01

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SOF	P T1	00_0	90 (	12/1	0/08)

Р	age 10 of 10
WORK ORDER #: 09- 0 1 - 0 [	794

# Laboratories, Inc. SAMPLE ANOMALY FORM

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Environmental

CHAIN OF	CUSTODY (	(COC):			Comm	ents:			
<ul> <li>□ Not relin</li> <li>□ No date</li> <li>□ COC no</li> <li>□ Incomp</li> </ul>	nquished by /time relinqu t received wi lete informat	client – no ished ith samples ion regardi							
SAMPLES	- CONTAIN	ERS & LA	BELS:		Comn	nents:			
<ul> <li>□ Sample</li> <li>□ Sample</li> <li>□ Holding</li> <li>□ Insuffic</li> <li>□ Imprope</li> <li>□ No pres</li> <li>□ Sample</li> <li>☑ Sample</li> <li>☑ Sample</li> <li>☑ Sample</li> <li>☑ Sample</li> <li>□ Da</li> <li>□ Pr</li> <li>□ # c</li> <li>□ Sample</li> <li>□ Br</li> <li>□ Wit</li> <li>□ Other:</li> </ul>	s NOT RECE s received bu time expired ient quantitie er container( labels illegit labels do no mple ID te and/or Tir oject Informa of containers containers of aking oken thout Labels	IVED but lis ut NOT LIST d – list samp es for analy s) used – lis ed on COC ole – note te of match CC me Collecte ation	<u>(-1)</u> <u>(-2)</u> (-4) fy lab	labeled	as V-1-5 — V-2-5 — Duplice	<u>.75'</u> <u>.75'</u> <u><u>te (V-2-5.7</u>5'</u>			
HEADSPA	CE – Contai	iners with	Bubble >	6mm or ¼ i	nch:				
Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of RSK or CO <sub>2</sub> or DO or Organic Lead Received	
Comments:									
						Initial / Da	te <u>RN / 2</u> -	7-09	

SOP T100\_081 (09/19/08)







February 24, 2009

Dennis Baertschi Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955

Subject: Calscience Work Order No.: 09-02-0805 Client Reference: 8930 Bancroft Ave., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/7/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Philip Samelle for

Calscience Environmental Laboratories, Inc. Jessie Kim Project Manager

CA-ELAP ID: 1230 · NELAP ID: 03220CA · CSDLAC ID: 10109 · SCAQMD ID: 93LA0830 7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

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Conestoga-Rovers & Associates	Date Received:	02/07/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5-2'		09-02-0805-1-A	02/04/09 09:20	Solid	GC 43	02/10/09	02/11/09 07:08	090210B04
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	100	61-145						
SB-3-2'		09-02-0805-2-A	02/04/09 11:25	Solid	GC 43	02/10/09	02/11/09 07:28	090210B04
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	105	61-145						
V-2-2'		09-02-0805-3-A	02/04/09 14:00	Solid	GC 43	02/10/09	02/11/09 07:47	090210B04
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	100	61-145						
SB-4-2'		09-02-0805-4-A	02/04/09 15:15	Solid	GC 43	02/10/09	02/11/09 08:07	090210B04
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	105	61-145						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





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Conestoga-Rovers & Associates	Date Received:	02/07/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-1-2'		09-02-0805-5-A	02/05/09 09:20	Solid	GC 43	02/10/09	02/11/09 08:27	090210B04
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	97	61-145						
V-1-5'		09-02-0805-6-A	02/05/09 11:55	Solid	GC 43	02/10/09	02/11/09 08:46	090210B04
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	100	61-145						
SB-5-5'		09-02-0805-7-A	02/06/09 09:15	Solid	GC 43	02/10/09	02/11/09 09:06	090210B04
Parameter	Result	<u>RL</u>	DF	Qual	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	100	61-145						
SB-5-10'		09-02-0805-8-A	02/06/09 09:20	Solid	GC 43	02/10/09	02/11/09 09:26	090210B04
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	100	61-145						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





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Conestoga-Rovers & AssociatesDate Received:02/07/0919449 Riverside Drive, Suite 230Work Order No:09-02-0805Sonoma, CA 95476-6955Preparation:EPA 3550BMethod:EPA 8015B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5-12.5'		09-02-0805-9-A	02/06/09 09:30	Solid	GC 43	02/10/09	02/11/09 09:45	090210B04
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	100	61-145						
SR-3-5'		00.02.0905.40.4	02/06/00	Solid	GC 43	02/10/00	02/11/09	000210804

00-3-3			09-02-0603-10-A	02/00/09 09:45	oona	00 43	02/10/03	10:05	030210804
Comment(s):	-The sample chromatogra of the unknown hydrocarl	aphic pattern bon(s) in the	for TPH does not ma sample was based up	tch the chrom	atographic p ed standard	pattern of the	specified sta	andard. Qua	ntitation
Parameter		Result	RL	DE	<u>Qual</u>	<u>Units</u>			
Diesel Range Organic	S	6.5	5.0	1		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl		102	61-145						
SB-3-10'			09-02-0805-11-A	02/06/09 09:50	Solid	GC 43	02/10/09	02/11/09 11:06	090210B04

Comment(s):	-The sample chromatogra of the unknown hydrocarl	he sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation the unknown hydrocarbon(s) in the sample was based upon the specified standard.								
Parameter		Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>				
Diesel Range Organic	S	13	5.0	1		mg/kg				
Surrogates:		<u>REC (%)</u>	Control Limits		Qual					
Decachlorobiphenyl		98	61-145							





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Conestoga-Rovers & Associates	Date Received:	02/07/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Numbe	er		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-3-12'			09-02-0805-12-A	02/06/09 10:00	Solid	GC 43	02/10/09	02/11/09 11:25	090210B04
Comment(s):	-The sample chromatog	raphic patterr	n for TPH does not ma	atch the chrom	atographic	pattern of the	specified st	andard. Qua	ntitation
Parameter	of the unknown hydrocal	Result	<u>RL</u>	DF	Qual	u. <u>Units</u>			
Diesel Range Organi	cs	390	5.0	1		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl		102	61-145						
SB-3-15'			09-02-0805-13-A	02/06/09 10:05	Solid	GC 43	02/10/09	02/11/09 11:45	090210B04
Parameter		<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
Diesel Range Organi	CS	ND	5.0	1		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl		99	61-145						
V-2-5'			09-02-0805-14-A	02/06/09 10:20	Solid	GC 43	02/10/09	02/11/09 12:05	090210B04
Comment(s):	-The sample chromatog	raphic patterr	for TPH does not ma	atch the chrom	atographic	pattern of the	specified st	andard. Qua	ntitation
Parameter	of the unknown hydrocal	Result	<u>RL</u>	DF	Qual	u. <u>Units</u>			
Diesel Range Organi	cs	110	10	2		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl		102	61-145						



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## alscience nvironmental aboratories, Inc.

Conestoga-Rovers & Associates	Date Received:	02/07/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Numbe	er		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-2-10'			09-02-0805-15-A	02/06/09 10:30	Solid	GC 43	02/10/09	02/11/09 12:25	090210B04
Comment(s):	-The sample chromatog	aphic pattern	for TPH does not ma	atch the chrom	natographic	pattern of the	specified st	andard. Qua	ntitation
Parameter	or the unknown hydrocal	Result	RL	DF	Qual	u. <u>Units</u>			
Diesel Range Organio	cs	13	5.0	1		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl		98	61-145						
V-2-12'			09-02-0805-16-A	02/06/09 10:35	Solid	GC 43	02/10/09	02/11/09 12:45	090210B04
Comment(s):	-The sample chromatog	aphic pattern	for TPH does not ma	atch the chrom	atographic	pattern of the	specified st	andard. Qua	ntitation
Parameter	of the unknown hydrocal	bon(s) in the <u>Result</u>	sample was based u <u>RL</u>	pon the specif <u>DF</u>	ied standai Qual	rd. <u>Units</u>			
Diesel Range Organio	cs	200	25	5		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl		115	61-145						
V-2-15'			09-02-0805-17-A	02/06/09 10:40	Solid	GC 43	02/10/09	02/11/09 13:05	090210B04
Parameter		Result	RL	DF	Qual	Units			
Diesel Range Organio	CS	ND	<u></u> 5.0	1	<u> </u>	ma/ka			
Surrogates:		- RFC (%)	Control Limits	-	Qual				
Decachlorobiphenyl		100	61-145		<u></u>				



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## *C*alscience *nvironmental aboratories, Inc.*

Conestoga-Rovers & Associates	Date Received:	02/07/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number	er		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4-5'			09-02-0805-18-A	02/06/09 10:45	Solid	GC 43	02/10/09	02/12/09 01:43	090210B04
Comment(s):	-The sample chromatog	raphic patterr	n for TPH does not m	atch the chron	natographic	c pattern of the	e specified s	tandard. Qua	ntitation
Parameter	or the unknown hydrocal	Result	RL	ipon the specii DF	Qual	u. <u>Units</u>			
Diesel Range Organi	cs	250	10	2		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl		106	61-145						
SB-4-10'			09-02-0805-19-A	02/06/09 11:27	Solid	GC 43	02/10/09	02/11/09 13:45	090210B04
Comment(s):	-The sample chromatog	raphic patterr	n for TPH does not m	atch the chron	natographic	pattern of the	e specified s	tandard. Qua	ntitation
Parameter	of the unknown hydrocal	Result	e sample was based u <u>RL</u>	ipon the specif	ied standa Qual	rd. <u>Units</u>			
Diesel Range Organi	cs	7.5	5.0	1		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl		97	61-145						
SB-4-12'			09-02-0805-20-A	02/06/09 11:30	Solid	GC 43	02/10/09	02/11/09 14:05	090210B04
Parameter		Result	RL	DF	Qual	Units			
Diesel Range Organi	cs	ND	5.0	1		ma/ka			
Surrogates:			Control Limits	·	Qual				
Descelarshiphopul		100	61-145		<u>Qual</u>				



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## *C*alscience nvironmental aboratories, Inc.

Conestoga-Rovers & Associates	Date Received:	02/07/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number	er		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4-15'			09-02-0805-21-A	02/06/09 11:35	Solid	GC 48	02/10/09	02/10/09 21:45	090210B06
Comment(s):	-The sample chromatog	raphic patter	n for TPH does not ma sample was based u	atch the chrom pon the specif	natographic ied standar	pattern of the	e specified st	andard. Qua	ntitation
Parameter		Result	RL	DF	<u>Qual</u>	<u>Units</u>			
Diesel Range Organi	cs	30	5.0	1		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl		113	61-145						
V-1-11'			09-02-0805-22-A	02/06/09 12:00	Solid	GC 48	02/10/09	02/11/09 13:22	090210B06
Comment(s):	-The sample chromatog	raphic patter	n for TPH does not ma e sample was based u	atch the chron	natographic ied standar	pattern of the	e specified st	andard. Qua	ntitation
Parameter	, <b>,</b>	Result	RL	DF	Qual	Units			
Diesel Range Organi	cs	1200	50	10		mg/kg			
Surrogates:		<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl		129	61-145						
V-1-15.5'			09-02-0805-23-A	02/06/09 12:10	Solid	GC 48	02/10/09	02/10/09 22:17	090210B06
Comment(s):	Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation								

Parameter	Result	<u>RL</u>	<u>DF</u> <u>Qual</u>	<u>Units</u>
Diesel Range Organics	5.7	5.0	1	mg/kg
Surrogates:	<u>REC (%)</u>	Control Limits	Qual	
Decachlorobiphenyl	114	61-145		

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Conestoga-Rovers & Associates	Date Received:	02/07/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-1-14.5'		09-02-0805-24-A	02/06/09 13:00	Solid	GC 48	02/10/09	02/10/09 22:33	090210B06
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	117	61-145						
Method Blank		099-12-025-622	N/A	Solid	GC 43	02/10/09	02/11/09 04:10	090210B04
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	103	61-145						
Method Blank		099-12-025-623	N/A	Solid	GC 48	02/10/09	02/10/09 19:21	090210B06
Parameter	Result	<u>RL</u>	DF	<u>Qual</u>	Units			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	116	61-145						



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Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955

Date Received:	02/07/09
Work Order No:	09-02-0805
Preparation:	EPA 3510C
Method:	EPA 8015B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-1-15'-16'W			09-02-0805-25-D	02/06/09 12:55	Aqueous	GC 47	02/12/09	02/16/09 18:45	090212B12
Comment(s): -	The sample chromatog	aphic pattern	for TPH does not m	atch the chroi	matographic ified standar	pattern of the	e specified st	andard. Qua	ntitation
Parameter		Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Diesel Range Organics		7800	200	4		ug/L			
Surrogates:		<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl		99	68-140						
Method Blank			099-12-211-964	N/A	Aqueous	GC 47	02/12/09	02/14/09 21:12	090212B12
Parameter		<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
Diesel Range Organics		ND	50	1		ug/L			
Surrogates:		<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl		105	68-140						

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ACCORDANCE NO ANO

Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method:

## 09-02-0805 EPA 3510C EPA 8015B (M)

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02/07/09

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-1-15'-16'W		09-02-0805-25-D	02/06/09 12:55	Aqueous	GC 47	02/12/09	02/15/09 01:28	090212B13
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
TPH as Motor Oil	ND	250	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	104	68-140						
Method Blank		099-12-234-374	N/A	Aqueous	GC 47	02/12/09	02/14/09 21:12	090212B13
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	250	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	105	68-140						

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Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method:

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EPA 8015B (M)

02/07/09

09-02-0805

EPA 3550B

#### Project: 8930 Bancroft Ave., Oakland, CA

	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
	09-02-0805-1-A	02/04/09 09:20	Solid	GC 43	02/10/09	02/11/09 07:08	090210B05
<u>Result</u>	RL	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
ND	25	1		mg/kg			
<u>REC (%)</u>	Control Limits		<u>Qual</u>				
100	61-145						
	09-02-0805-2-A	02/04/09 11:25	Solid	GC 43	02/10/09	02/11/09 07:28	090210B05
<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
ND	25	1		mg/kg			
<u>REC (%)</u>	Control Limits		<u>Qual</u>				
105	61-145						
	09-02-0805-3-A	02/04/09 14:00	Solid	GC 43	02/10/09	02/11/09 07:47	090210B05
<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
ND	25	1		mg/kg			
<u>REC (%)</u>	Control Limits		<u>Qual</u>				
100	61-145						
	09-02-0805-4-A	02/04/09 15:15	Solid	GC 43	02/10/09	02/11/09 08:07	090210B05
<u>Result</u>	RL	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
ND	25	1		mg/kg			
<u>REC (%)</u>	Control Limits		Qual				
105	61-145						
	Result ND REC (%) 100 REC (%) 105 Result ND REC (%) 100 REC (%) 100 REC (%) 105	Lab Sample NumberO9-02-0805-1-AResultRLND25REC (%)O9-02-0805-2-AResultRLND25REC (%)Control Limits105O9-02-0805-3-AResultRLND25REC (%)Control LimitsI0061-145ND25ResultRLND25REC (%)Control Limits10061-145ND25REC (%)Control LimitsI0061-145ND25ResultRLND25REC (%)Control LimitsI0061-145I019-02-0805-4-AI0261-145	Lab Sample NumberDate/Time Collected09-02-0805-1-A02/04/09 09:20ResultRLDEND251REC (%)Control Limits010061-145DEND251ResultRLDEND251ResultControl Limits10ResultRLDEND251REC (%)Control Limits1010561-1451ND251ResultRLDEND251ResultControl Limits110061-145110061-1451ResultRLDEND251ResultRLDEND251ResultRLDEND251REC (%)Control Limits10561-1451	Lab Sample NumberDate/Time CollectedMatrix09-02-0805-1-A02/04/09 09:20SolidResultRLDEQualND251QualREC (%)Control LimitsQual1010061-145QualSolidResultRLDEQualND251QualResultRLDEQualND251Qual10561-145QualQual10561-145QualQualResultRLDEQualND251QualResultRLDEQualND251Qual10061-145QualQual10061-145QualQualResultRLDEQualND251QualND251MuatixREC (%)Control LimitsDEQualND251MuatixREC (%)Control Limits1MuatixND251MuatixND251MuatixND251MuatixND251MuatixND61-1451MuatixND251MuatixND61-1451MuatixND251MuatixND61-1451MuatixND251Muati	Lab Sample NumberDate/Time CollectedMatrixInstrument09-02-0805-1-A02/04/09 09:20SolidGC 43ResultRLDEQualUnitsND251mg/kgREC (%)Control LimitsQualUnits10061-145QualUnitsND251GC 43ND61-145QualUnitsResultRLDEQualUnitsND251mg/kgREC (%)Control LimitsQualUnits10561-145QualUnitsND251mg/kgResultRLDEQual10561-145QualUnitsND251mg/kgREC (%)Control LimitsQualUnits10061-145QualUnitsND251mg/kgResultRLDEQual10061-145QualUnitsND251mg/kgResultRLDEQualND251mg/kgREC (%)Control LimitsQualND251mg/kgResultRLDEQualND251mg/kgREC (%)Control LimitsQualND251mg/kgND251mg/kgND251mg/kgND25 <td>Lab Sample NumberDate/Time CollectedMatrixDate InstrumentDate Prepared09-02-0805-1-A02/0409 09:20SolidGC 4302/10/09ResultRLDEQualUnits mg/kgND251mg/kg10061:145Uait100GC 4302/10/09ResultRLDEQualUnits mg/kg02/0409SolidGC 4302/10/09ResultRLDEQualUnits mg/kgmg/kg100100ResultRLDEQualUnits mg/kg10561:14510002/10/09ResultRLDEQualUnits mg/kg10061:145100100100ResultRLDEQualUnits mg/kg10061:1451002510100100ResultRLDEQualUnits mg/kg100251010021/10/09ResultRLDEQualUnits mg/kg100251010021/10/09ResultRLDEQualUnits mg/kg1002510100100ResultRLDEQualUnits mg/kg100100100100100ResultRLDEQualUnits mg/kg100100100100100ResultRLDEQualUnits mg/kg100<t< td=""><td>Lab Sample Number         Date/Time Collected         Matrix Matrix         Instrument Instrument         Prepared Prepared         Date Analyzed Analyzed           99-02-0805-1-A         02/04/09 09:20         Solid         GC 43         02/10/09         02/11/09           Result         RL         DE         Qual         Units         mg/kg            ND         25         1         mg/kg               ND         61-145         Qual         Units         mg/kg              ND         25         1         mg/kg</td></t<></td>	Lab Sample NumberDate/Time CollectedMatrixDate InstrumentDate Prepared09-02-0805-1-A02/0409 09:20SolidGC 4302/10/09ResultRLDEQualUnits mg/kgND251mg/kg10061:145Uait100GC 4302/10/09ResultRLDEQualUnits mg/kg02/0409SolidGC 4302/10/09ResultRLDEQualUnits mg/kgmg/kg100100ResultRLDEQualUnits mg/kg10561:14510002/10/09ResultRLDEQualUnits mg/kg10061:145100100100ResultRLDEQualUnits mg/kg10061:1451002510100100ResultRLDEQualUnits mg/kg100251010021/10/09ResultRLDEQualUnits mg/kg100251010021/10/09ResultRLDEQualUnits mg/kg1002510100100ResultRLDEQualUnits mg/kg100100100100100ResultRLDEQualUnits mg/kg100100100100100ResultRLDEQualUnits mg/kg100 <t< td=""><td>Lab Sample Number         Date/Time Collected         Matrix Matrix         Instrument Instrument         Prepared Prepared         Date Analyzed Analyzed           99-02-0805-1-A         02/04/09 09:20         Solid         GC 43         02/10/09         02/11/09           Result         RL         DE         Qual         Units         mg/kg            ND         25         1         mg/kg               ND         61-145         Qual         Units         mg/kg              ND         25         1         mg/kg</td></t<>	Lab Sample Number         Date/Time Collected         Matrix Matrix         Instrument Instrument         Prepared Prepared         Date Analyzed Analyzed           99-02-0805-1-A         02/04/09 09:20         Solid         GC 43         02/10/09         02/11/09           Result         RL         DE         Qual         Units         mg/kg            ND         25         1         mg/kg               ND         61-145         Qual         Units         mg/kg              ND         25         1         mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method:

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02/07/09

09-02-0805

EPA 3550B

EPA 8015B (M)

Project:	8930	Bancroft Ave.,	Oakland, CA	
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	Number	Collected	Matrix	Instrument	Prepared	Analyzed	QC Batch ID
	09-02-0805-5-A	02/05/09 09:20	Solid	GC 43	02/10/09	02/11/09 08:27	090210B05
<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
ND	25	1		mg/kg			
<u>REC (%)</u>	Control Limits		Qual				
97	61-145						
	09-02-0805-6-A	02/05/09 11:55	Solid	GC 43	02/10/09	02/11/09 08:46	090210B05
<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
ND	25	1		mg/kg			
<u>REC (%)</u>	Control Limits		<u>Qual</u>				
100	61-145						
	09-02-0805-7-A	02/06/09 09:15	Solid	GC 43	02/10/09	02/11/09 09:06	090210B05
<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
ND	25	1		mg/kg			
<u>REC (%)</u>	Control Limits		Qual				
100	61-145						
	09-02-0805-8-A	02/06/09 09:20	Solid	GC 43	02/10/09	02/11/09 09:26	090210B05
<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
ND	25	1		mg/kg			
<u>REC (%)</u>	Control Limits		<u>Qual</u>				
100	61-145						
	Result           ND           REC (%)           97           Gesult           ND           REC (%)           100           Result           ND           Result           ND           Result           ND           Result           ND           Result           ND           REC (%)           100	Number           09-02-0805-5-A           Result         RL           ND         25           REC (%)         Control Limits           97         61-145           09-02-0805-6-A         09-02-0805-6-A           Result         RL           ND         25           REC (%)         Control Limits           100         61-145           Control Limits           100         61-145           Result         RL           ND         25           REC (%)         Control Limits           100         61-145           ND         25           REC (%)         Control Limits           100         61-145           ND         25           REC (%)         Control Limits           100         61-145           Result           Result         RL           ND         25           REC (%)         Control Limits           ND         25           REC (%)         Control Limits           100         61-145	Number         Contected           09-02-0805-5-A         02/05/09 09:20           Result         RL         DE           ND         25         1           REC (%)         Control Limits         97           09-02-0805-6-A         02/05/09         11:55           Result         RL         DE           ND         25         1           Result         RL         DE           ND         25         1           Result         RL         DE           ND         25         1           REC (%)         Control Limits         10           100         61-145         DE           ND         25         1           Result         RL         DE           ND         25         1           REC (%)         Control Limits         1           100         61-145         02/06/09           Result         RL         DE           ND         25         1           Result         RL         DE           ND         25         1           REC (%)         Control Limits         1           ND	Number         Conected         Name           09-02-0805-5-A         02/05/09 09:20         Solid           Result         RL         DE         Qual           ND         25         1         Qual           P7         Control Limits         Qual         Qual           97         61-145         Qual         Qual           P7         61-145         Qual         Qual           ND         25         1         Qual           P7         61-145         Qual         Qual           ND         25         1         Qual           ND         25         1         Qual           100         61-145         Qual         Qual           100         61-145         Qual         Qual           100         61-145         Qual         Qual           ND         25         1         Qual           100         61-145         Qual         Qual           100         61-145         Qual         Qual           ND         25         1         Qual           ND         25         1         Qual           ND         25         1 <td>NUMBER         Conected         Mark         Mark         Mark         Mark           09-02-0805-5-A         02/05/09 09:20         Solid         GC 43           Result         RL         DE         Qual         Units           ND         25         1         mg/kg           REC (%)         Control Limits         Qual         Units           97         61-145         Qual         Units           ND         25         1         mg/kg           Result         RL         DE         Qual         Units           97         61-145         Qual         Units         GC 43           Result         RL         DE         Qual         Units           ND         25         1         mg/kg           REC (%)         Control Limits         Qual         Units           100         61-145         Qual         Units           ND         25         1         mg/kg           REC (%)         Control Limits         Qual         Units           100         61-145         Qual         Units           Result         RL         DE         Qual         Units           N</td> <td>Number         Conjected         National Attention industries         Production           09-02-0805-5-A         02/05/09         Solid         GC 43         02/10/09           Result         RL         DE         Qual         Units         mg/kg           ND         25         1         mg/kg         mg/kg           REC (%)         Control Limits         Qual         Units         02/10/09           97         61-145         Qual         Units         02/10/09           Result         RL         DE         Qual         Units<td>Number         Control of a contron of a control of a contron of a control of a control of</td></td>	NUMBER         Conected         Mark         Mark         Mark         Mark           09-02-0805-5-A         02/05/09 09:20         Solid         GC 43           Result         RL         DE         Qual         Units           ND         25         1         mg/kg           REC (%)         Control Limits         Qual         Units           97         61-145         Qual         Units           ND         25         1         mg/kg           Result         RL         DE         Qual         Units           97         61-145         Qual         Units         GC 43           Result         RL         DE         Qual         Units           ND         25         1         mg/kg           REC (%)         Control Limits         Qual         Units           100         61-145         Qual         Units           ND         25         1         mg/kg           REC (%)         Control Limits         Qual         Units           100         61-145         Qual         Units           Result         RL         DE         Qual         Units           N	Number         Conjected         National Attention industries         Production           09-02-0805-5-A         02/05/09         Solid         GC 43         02/10/09           Result         RL         DE         Qual         Units         mg/kg           ND         25         1         mg/kg         mg/kg           REC (%)         Control Limits         Qual         Units         02/10/09           97         61-145         Qual         Units         02/10/09           Result         RL         DE         Qual         Units <td>Number         Control of a contron of a control of a contron of a control of a control of</td>	Number         Control of a contron of a control of a contron of a control of a control of

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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EPA 8015B (M)

02/07/09

09-02-0805

EPA 3550B

Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5-12.5'		09-02-0805-9-A	02/06/09 09:30	Solid	GC 43	02/10/09	02/11/09 09:45	090210B05
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	100	61-145						
SB-3-5'		09-02-0805-10-A	02/06/09 09:45	Solid	GC 43	02/10/09	02/11/09 10:05	090210B05
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	25	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	102	61-145						
SB-3-10'		09-02-0805-11-A	02/06/09 09:50	Solid	GC 43	02/10/09	02/11/09 11:06	090210B05
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	98	61-145						
SB-3-12'		09-02-0805-12-A	02/06/09 10:00	Solid	GC 43	02/10/09	02/11/09 11:25	090210B05
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	440	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	102	61-145						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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EPA 8015B (M)

02/07/09

09-02-0805

EPA 3550B

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-3-15'		09-02-0805-13-A	02/06/09 10:05	Solid	GC 43	02/10/09	02/11/09 11:45	090210B05
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	99	61-145						
V-2-5'		09-02-0805-14-A	02/06/09 10:20	Solid	GC 43	02/10/09	02/11/09 12:05	090210B05
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
TPH as Motor Oil	290	50	2		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	102	61-145						
V-2-10'		09-02-0805-15-A	02/06/09 10:30	Solid	GC 43	02/10/09	02/11/09 12:25	090210B05
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	98	61-145						
V-2-12'		09-02-0805-16-A	02/06/09 10:35	Solid	GC 43	02/10/09	02/11/09 12:45	090210B05
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
TPH as Motor Oil	700	120	5		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	115	61-145						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method:

EPA 3550B EPA 8015B (M)

02/07/09

09-02-0805

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#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-2-15'		09-02-0805-17-A	02/06/09 10:40	Solid	GC 43	02/10/09	02/11/09 13:05	090210B05
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	99	61-145						
SB-4-5'		09-02-0805-18-A	02/06/09 10:45	Solid	GC 43	02/10/09	02/12/09 01:43	090210B05
Parameter	Result	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	1100	50	2		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	106	61-145						
SB-4-10'		09-02-0805-19-A	02/06/09 11:27	Solid	GC 43	02/10/09	02/11/09 13:45	090210B05
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	97	61-145						
SB-4-12'		09-02-0805-20-A	02/06/09 11:30	Solid	GC 43	02/10/09	02/11/09 14:05	090210B05
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	100	61-145						

 $\label{eq:RL-Reporting Limit} RL - Reporting Limit \ , \qquad DF - Dilution Factor \ , \qquad Qual - Qualifiers$ 



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Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method:

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02/07/09

09-02-0805

EPA 3550B

EPA 8015B (M)

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4-15'		09-02-0805-21-A	02/06/09 11:35	Solid	GC 48	02/10/09	02/10/09 21:45	090210B07
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	113	61-145						
V-1-11'		09-02-0805-22-A	02/06/09 12:00	Solid	GC 48	02/10/09	02/11/09 13:22	090210B07
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	1700	250	10		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	129	61-145						
V-1-15.5'		09-02-0805-23-A	02/06/09 12:10	Solid	GC 48	02/10/09	02/10/09 22:17	090210B07
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	114	61-145						
V-1-14.5'		09-02-0805-24-A	02/06/09 13:00	Solid	GC 48	02/10/09	02/10/09 22:33	090210B07
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	117	61-145						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method:

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#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank		099-12-254-677	N/A	Solid	GC 43	02/10/09	02/11/09 04:10	090210B05
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	103	61-145						
Method Blank		099-12-254-678	N/A	Solid	GC 48	02/10/09	02/10/09 19:21	090210B07
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenvl	116	61-145						

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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:ug/L

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La M	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Preparec	Date/Ti I Analyz	me ed	QC Batch ID
V-1-15'-16'W			09-02-0	)805-25-B	02/06/09 12:55	Aqueous	GC/MS RR	02/18/09	02/18/ 23:50	09 )	090218L01
Parameter	<u>Result</u>	<u>RL</u>	DE	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	17	2.5	5		Tert-Butyl Alc	ohol (TBA)		ND	50	5	
Ethylbenzene	230	5.0	5		Diisopropyl Et	her (DIPE)		ND	10	5	
Toluene	ND	5.0	5		Ethyl-t-Butyl E	ther (ETBE)		ND	10	5	
Xylenes (total)	22	5.0	5		Tert-Amyl-Me	thyl Ether (T	AME)	ND	10	5	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	5		ТРРН			16000	250	5	
Surrogates:	<u>REC (%)</u>	<u>Control</u>		Qual	Surrogates:			<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
Dibromofluoromethane	106	74-140			1.2-Dichloroet	hane-d4		100	74-146		
Toluene-d8	104	88-112			Toluene-d8-T	PPH		101	88-112		
1,4-Bromofluorobenzene	99	74-110									
Method Blank			099-12 <sup>.</sup>	-767-1,144	N/A	Aqueous	GC/MS RR	02/18/09	02/18/ 15:4	09 5	090218L01
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.50	1		Tert-Butvl Alc	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Et	her (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E	ther (ETBE)		ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH			ND	50	1	
Surrogates:	<u>REC (%)</u>	Control		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u>		Qual
Dibromofluoromethane	109	<u>1111115</u> 74-140			1,2-Dichloroet	hane-d4		104	74-146		
Toluene-d8	99	88-112			Toluene-d8-T	PPH		96	88-112		
1,4-Bromofluorobenzene	93	74-110									

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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La	ab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/T Analyz	ime zed	QC Batch ID
SB-5-2'			09-02-	0805-1-A	02/04/09 09:20	Solid	GC/MS UU	02/14/09	02/14/ 17:1	/09 2	090214L01
Parameter	<u>Result</u>	<u>RL</u>	DE	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	ner (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	ther (ETBE)	1	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	hyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH			ND	0.50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>
Dibromofluoromethane	107	73-139			1,2-Dichloroeth	nane-d4		116	73-145		
Toluene-d8	102	90-108			1,4-Bromofluor	robenzene		101	71-113		
Toluene-d8-TPPH	104	88-112									
SB-3-2'			09-02-	0805-2-A	02/04/09 11:25	Solid	GC/MS UU	02/14/09	02/14/ 17:3	/09 7	090214L01
Parameter	Result	RI	DE	Qual	Parameter			Result	RI	DF	Qual
Bonzono	ND		1	Quui	Tort Butyl Alco				0.050	1	Quai
Ethylbenzene		0.0050	1			or (DIPE)			0.050	1	
Toluene		0.0050	1		Ethyl-t-Butyl Et	ther (FTRF)		ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amvl-Meth	hvl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH		, uni_)	ND	0.50	1	
Surrogates:	RFC (%)	Control		Qual	Surrogates:			RFC (%)	Control		Qual
	<u></u>	Limits		<u></u>	<u>ounogatoon</u>			<u></u>	Limits		
Dibromofluoromethane	108	73-139			1,2-Dichloroeth	nane-d4		118	73-145		
Toluene-d8	101	90-108			1,4-Bromofluor	robenzene		92	71-113		
Toluene-d8-TPPH	103	88-112									
V-2-2'			09-02-	0805-3-A	02/04/09 14:00	Solid	GC/MS UU	02/14/09	02/14/ 18:0	/09 1	090214L01
Parameter	Result	<u>RL</u>	DF	Qual	Parameter			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butvl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	ner (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	ther (ETBE)	1	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	hyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		ТРРН		·	ND	0.50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
Dibromofluoromothono	110				1.2 Diablarast	oono d4		110			
	102	13-139			1,2-DICHIOROET	idile-04		01	73-145		
Toluene-d8-TPPH	102	88-112			1,4-01011011001	ODENZENE		51	11-113		
		30 112									

RL - Reporting Limit , DF - Dilution Factor

, Qual - Qualifiers

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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/T I Analyz	ime zed	QC Batch ID
SB-4-2'			09-02-0	0805-4-A	02/04/09 15:15	Solid	GC/MS UU	02/14/09	02/14/ 18:2	'09 6	090214L01
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butvl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)		ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		ТРРН		,	ND	0.50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		Qual
Dibromofluoromethane	111	73-139			1,2-Dichloroeth	ane-d4		115	73-145		
Toluene-d8	101	90-108			1,4-Bromofluor	obenzene		91	71-113		
Toluene-d8-TPPH	103	88-112									
V-1-2'			09-02-	0805-5-A	02/05/09 09:20	Solid	GC/MS UU	02/14/09	02/14/ 18:5	'09 0	090214L01
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter <b>e</b>			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcol	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)	)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH			ND	0.50	1	
Surrogates:	<u>REC (%)</u>	Control		Qual	Surrogates:			<u>REC (%)</u>	Control		<u>Qual</u>
		<u>Limits</u>							<u>Limits</u>		
Dibromofluoromethane	114	73-139			1,2-Dichloroeth	ane-d4		122	73-145		
Toluene-d8	101	90-108			1,4-Bromofluor	obenzene		90	71-113		
Toluene-d8-TPPH	104	88-112									
V-1-5'			09-02-0	0805-6-A	02/05/09 11:55	Solid	GC/MS UU	02/14/09	02/14/ 19:1	'09 5	090214L01
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual	Parameter			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butvl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)	)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		ТРРН	•		ND	0.50	1	
Surrogates:	<u>REC (%)</u>	Control		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
Dibromofluoromethane	114	73-139			1.2-Dichloroeth	ane-d4		123	73-145		
Toluene-d8	101	90-108			1.4-Bromofluor	obenzene		88	71-113		
Toluene-d8-TPPH	104	88-112			,			-			

RL - Reporting Limit , DF - Dilution Factor

, Qual - Qualifiers



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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Date Date/Time Lab Sample Date/Time Matrix QC Batch ID Instrument **Client Sample Number** Prepared Analyzed Number Collected 02/14/09 SB-5-5' 09-02-0805-7-A 02/06/09 Solid GC/MS UU 02/14/09 090214L01 09:15 19:39 Parameter Result 8 1 <u>RL</u> DF Qual Parameter Result 8 1 RL DF Qual Benzene ND 0.0050 1 Tert-Butyl Alcohol (TBA) ND 0.050 1 Ethylbenzene ND Diisopropyl Ether (DIPE) ND 0.0050 1 0.010 1 Toluene ND 0.0050 Ethyl-t-Butyl Ether (ETBE) ND 0.010 1 1 ND Tert-Amyl-Methyl Ether (TAME) ND Xylenes (total) 0.0050 1 0.010 1 Methyl-t-Butyl Ether (MTBE) ND TPPH ND 0.0050 0.50 1 1 Surrogates: REC (%) Control Qual Surrogates: **REC (%)** Control Qual <u>Limits</u> Limits Dibromofluoromethane 115 73-139 1,2-Dichloroethane-d4 123 73-145 Toluene-d8 103 1,4-Bromofluorobenzene 90-108 91 71-113 Toluene-d8-TPPH 105 88-112 SB-5-10' 02/14/09 09-02-0805-8-A 02/06/09 Solid GC/MS UU 02/14/09 090214L01 20:04 09:20 Parameter Result RL DF Qual Parameter Result RL DF Qual Tert-Butyl Alcohol (TBA) Benzene ND 0.0050 1 ND 0.050 1 Ethylbenzene ND Diisopropyl Ether (DIPE) ND 0.0050 1 0.010 1 Ethyl-t-Butyl Ether (ETBE) ND Toluene ND 0.0050 1 0.010 1 ND Tert-Amyl-Methyl Ether (TAME) ND Xylenes (total) 0.0050 1 0.010 1 Methyl-t-Butyl Ether (MTBE) ND 0.0050 TPPH ND 0.50 1 1 Surrogates: REC (%) **Control** Qual Surrogates: REC (%) Qual Control Limits 1 4 1 Limits Dibromofluoromethane 116 1,2-Dichloroethane-d4 124 73-139 73-145 Toluene-d8 101 90-108 1,4-Bromofluorobenzene 89 71-113 Toluene-d8-TPPH 103 88-112 02/14/09 GC/MS UU 02/14/09 SB-5-12.5' 09-02-0805-9-A 02/06/09 Solid 090214L01 09:30 20:28 Parameter <u>Result</u> RL DF Qual Parameter Result RL DF Qual Benzene ND 0.0050 Tert-Butyl Alcohol (TBA) ND 0.050 1 1 Ethylbenzene ND 0.0050 1 Diisopropyl Ether (DIPE) ND 0.010 1 ND Ethyl-t-Butyl Ether (ETBE) ND 0.0050 0.010 Toluene 1 1 Xylenes (total) ND 0.0050 Tert-Amyl-Methyl Ether (TAME) ND 0.010 1 1 Methyl-t-Butyl Ether (MTBE) ND TPPH ND 0.0050 1 0.50 1 Surrogates: REC (%) Control Qual Surrogates: REC (%) Control Qual Limits **Limits** Dibromofluoromethane 116 73-139 1,2-Dichloroethane-d4 125 73-145 Toluene-d8 103 90-108 1,4-Bromofluorobenzene 92 71-113 Toluene-d8-TPPH 105 88-112

RL - Reporting Limit , DF - Dilution Factor

, Qual - Qualifiers

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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Preparec	Date/Ti Analyz	me ed	QC Batch ID
SB-3-5'			09-02-0	0805-10-A	02/06/09 09:45	Solid	GC/MS UU	02/14/09	02/14/ 20:52	09 2	090214L01
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcoh	nol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ethe	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Eth	ner (ETBE)	)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	yl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH			ND	0.50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>
Dibromofluoromethane	120	73-139			1,2-Dichloroetha	ane-d4		133	73-145		
Toluene-d8	103	90-108			1,4-Bromofluoro	obenzene		88	71-113		
Toluene-d8-TPPH	105	88-112									
SB-3-10'			09-02-0	0805-11-A	02/06/09 09:50	Solid	GC/MS UU	02/16/09	02/17/ 04:48	09 3	090216L02
Parameter	Result	RI	DF	Qual	Parameter			Result	RI	DF	Qual
Benzene		0.0050	1	<u></u>	Tert-Butyl Alcoh				0.050	1	
Ethylbenzene		0.0050	1		Diisopropyl Eth	or (DIPF)		ND	0.030	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Eth	ner (FTBF)		ND	0.010	1	
Xvlenes (total)	ND	0.0050	1		Tert-Amvl-Meth	vl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		ТРРН	<b>,</b>	,	ND	0.50	. 1	
Surrogates:	REC (%)	Control	•	Qual	Surrogates:			REC (%)	Control		Qual
		Limits							Limits		
Dibromofluoromethane	108	73-139			1,2-Dichloroetha	ane-d4		122	73-145		
Toluene-d8	101	90-108			1,4-Bromofluor	obenzene		92	71-113		
Toluene-d8-TPPH	103	88-112									
SB-3-12'			09-02-0	0805-12-A	02/06/09 10:00	Solid	GC/MS UU	02/16/09	02/17/ 05:13	09 3	090216L02
Parameter	Result	RL	DF	Qual	Parameter			Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcoh	nol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ethe	er (DIPE)		ND	0.010	. 1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Eth	ner (ETBE)		ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	yl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		ТРРН		,	ND	0.50	1	
Surrogates:	<u>REC (%)</u>	Control		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
Dibromofluoromethane	110	73-139			1.2-Dichloroeth	ane-d4		122	73-145		
Toluene-d8	100	90-108			1.4-Bromofluor	obenzene		92	71-113		
Toluene-d8-TPPH	102	88-112									

RL - Reporting Limit , DF - Dilution Factor

, Qual - Qualifiers

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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La N	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Preparec	Date/T I Analyz	ime œd	QC Batch ID
SB-3-15'			09-02-0	)805-13-A	02/06/09 10:05	Solid	GC/MS UU	02/16/09	02/17/ 05:3	'09 7	090216L02
Parameter	Result	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)	)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH			ND	0.50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>
Dibromofluoromethane	111	73-139			1,2-Dichloroeth	ane-d4		120	73-145		
Toluene-d8	100	90-108			1,4-Bromofluor	obenzene		92	71-113		
Toluene-d8-TPPH	103	88-112									
V-2-5'			09-02-0	)805-14-A	02/06/09 10:20	Solid	GC/MS UU	02/16/09	02/17/ 06:0	'09 1	090216L02
Parameter	Result	RL	DF	Qual	Parameter			Result	RL	DF	Qual
Benzene	ND	0 0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.000	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)		ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH		,	ND	0.50	1	
Surrogates:	<u>REC (%)</u>	Control		Qual	Surrogates:			REC (%)	Control		Qual
		Limits							Limits		
Dibromofluoromethane	116	73-139			1,2-Dichloroeth	ane-d4		130	73-145		
Toluene-d8	100	90-108			1,4-Bromofluor	obenzene		89	71-113		
Toluene-d8-TPPH	103	88-112									
V-2-10'			09-02-0	)805-15-A	02/06/09 10:30	Solid	GC/MS UU	02/16/09	02/17/ 02:2	'09 2	090216L02
Parameter	Result	<u>RL</u>	DF	<u>Qual</u>	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)	)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH			ND	0.50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>
Dibromofluoromethane	114	73-139			1,2-Dichloroeth	ane-d4		126	73-145		
Toluene-d8	101	90-108			1,4-Bromofluor	obenzene		89	71-113		
Toluene-d8-TPPH	104	88-112									

RL - Reporting Limit , DF - Dilution Factor

r , Qual - Qualifiers

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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		La N	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Tir Analyze	ne ed	QC Batch ID
V-2-12'		09-02-0	)805-16-A	02/06/09 10:35	Solid	GC/MS UU	02/16/09	02/17/0 06:26	9	090216L02
Parameter Res	<u>ult RL</u>	DF	<u>Qual</u>	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene ND	0.0050	1		Tert-Butyl Alcol	nol (TBA)		ND	0.050	1	
Ethylbenzene ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene ND	0.0050	1		Ethyl-t-Butyl Eth	ner (ETBE)		ND	0.010	1	
Xylenes (total) ND	0.0050	1		Tert-Amyl-Meth	yl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE) ND	0.0050	1		TPPH			ND	0.50	1	
Surrogates: REC	(%) <u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
Dibromofluoromethane 113	73-139			1.2-Dichloroeth	ane-d4		124	73-145		
Toluene-d8 101	90-108			1.4-Bromofluor	obenzene		89	71-113		
Toluene-d8-TPPH 104	88-112			,						
V-2-15'		09-02-0	)805-17-A	02/06/09 10:40	Solid	GC/MS UU	02/16/09	02/17/0 06:50	)9	090216L02
Parameter Res	ult RL	DF	Qual	Parameter			Result	RL	DF	Qual
Benzene ND	0.0050	1		Tert-Butyl Alcoh	nol (TBA)			0.050	1	
Ethylbenzene ND	0.0050	1		Diisopropyl Eth	er (DIPF)		ND	0.000	1	
Toluene ND	0.0050	1		Ethyl-t-Butyl Eth	ner (ETBE)		ND	0.010	1	
Xvlenes (total) ND	0.0050	1		Tert-Amvl-Meth	vl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE) ND	0.0050	1		ТРРН		,	ND	0.50	1	
Surrogates: REC	(%) <u>Control</u>		<u>Qual</u>	Surrogates:			REC (%)	<u>Control</u>		<u>Qual</u>
Dibromofluoromethane 113	73-130			1 2-Dichloroeth	ane-d4		124	<u>LIIIIII5</u> 73-145		
Toluene-d8	90-108			1.4-Bromofluor	nhenzene		94	71-113		
Toluene-d8-TPPH 107	88-112				0001120110		01	71 110		
SB-4-5'		09-02-0	)805-18-A	02/06/09 10:45	Solid	GC/MS UU	02/16/09	02/17/0 07:14	)9	090216L02
Parameter Res	ult RL	DF	Qual	Parameter			Result	RL	DF	Qual
Benzene ND	0.0050	1		Tert-Butyl Alcoh	nol (TBA)		ND	0.050	1	
Ethylbenzene ND	0.0050	1		Diisopropyl Eth	er (DIPF)		ND	0.000	1	
Toluene ND	0.0050	1		Ethyl-t-Butyl Eth	ner (FTBF)		ND	0.010	1	
Xvlenes (total) ND	0.0050	1		Tert-Amvl-Meth	vl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE) ND	0.0050	1		ТРРН	,	,	ND	0.50	1	
Surrogates: REC	(%) <u>Control</u>	•	<u>Qual</u>	Surrogates:		<u> </u>	<u>REC (%)</u>	<u>Control</u>	•	<u>Qual</u>
Dibromofluoromethanc 116	<u>LIIIIIS</u>			1.2-Dichlorooth	ano-d4		127	<u>LIIIIIIS</u> 72 1/5		
Toluene-d8	00-109			1 4-Bromofluor	an <del>c-u4</del> ahonzono		1 <i>21</i> 87	71-113		
Toluene-d8-TPPH 104	88-112						51	11-110		

RL - Reporting Limit , DF - Dilution Factor

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, Qual - Qualifiers
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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La N	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Ti I Analyz	me ed	QC Batch ID
SB-4-10'			09-02-0	805-19-A	02/06/09 11:27	Solid	GC/MS PP	02/16/09	02/17/0 05:15	09 5	090216L01
Parameter	Result	<u>RL</u>	DF	<u>Qual</u>	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcol	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)		ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH			ND	0.50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:		<u>.</u>	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>
Dibromofluoromethane	107	73-139			1,2-Dichloroeth	ane-d4		117	73-145		
Toluene-d8	101	90-108			1,4-Bromofluor	obenzene		100	71-113		
Toluene-d8-TPPH	100	88-112									
SB-4-12'			09-02-0	805-20-A	02/06/09 11:30	Solid	GC/MS PP	02/16/09	02/17/0 06:55	09 5	090216L01
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>
Benzene	ND	0.0050	1		Tert-Butyl Alcol	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Eth	her (ETBE)		ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH			ND	0.50	1	
Surrogates:	<u>REC (%)</u>	Control		Qual	Surrogates:		<u> </u>	REC (%)	Control		<u>Qual</u>
		<u>Limits</u>							<u>Limits</u>		
Dibromofluoromethane	107	73-139			1,2-Dichloroeth	ane-d4		118	73-145		
Toluene-d8	101	90-108			1,4-Bromofluor	obenzene		100	71-113		
Toluene-d8-TPPH	100	88-112									
SB-4-15'			09-02-0	805-21-A	02/06/09 11:35	Solid	GC/MS UU	02/16/09	02/17/ 03:59	)9 )	090216L03
Parameter	Result	<u>RL</u>	DF	Qual	Parameter			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.50	100		Tert-Butyl Alcol	hol (TBA)		ND	5.0	100	)
Ethylbenzene	ND	0.50	100		Diisopropyl Eth	er (DIPE)		ND	1.0	100	)
Toluene	ND	0.50	100		Ethyl-t-Butyl Eth	her (ETBE)		ND	1.0	100	)
Xylenes (total)	ND	0.50	100		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	1.0	100	)
Methyl-t-Butyl Ether (MTBE)	ND	0.50	100		TPPH			71	50	100	)
Surrogates:	<u>REC (%)</u>	Control		<u>Qual</u>	Surrogates:		<u> </u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
Dibromofluoromethane	107	<u>LIIIIII5</u> 73_130			1.2-Dichloroeth	ane-d4		118	73-145		
Toluene-d8	105	90-108			1 4-Bromofluor	ohenzene		103	71-113		
Toluene-d8-TPPH	107	88-112				00012010			71-110		

RL - Reporting Limit , DF - Dilution Factor ,

, Qual - Qualifiers

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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La N	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/T Analyz	ime ed	QC Batch ID
V-1-11'			09-02-0	)805-22-A	02/06/09 12:00	Solid	GC/MS UU	02/16/09	02/17/ 07:3	09 9	090216L02
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	ner (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	ther (ETBE)		ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	hyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		ТРРН			1.1	0.50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		Qual
Dibromofluoromethane	114	73-139			1,2-Dichloroeth	nane-d4		129	73-145		
Toluene-d8	105	90-108			1,4-Bromofluor	obenzene		102	71-113		
Toluene-d8-TPPH	108	88-112									
V-1-15.5'			09-02-0	)805-23-A	02/06/09 12:10	Solid	GC/MS UU	02/16/09	02/17/ 04:2	09 4	090216L03
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Parameter</u>			<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>
Benzene	ND	0.50	100		Tert-Butyl Alco	hol (TBA)		ND	5.0	100	)
Ethylbenzene	ND	0.50	100		Diisopropyl Eth	ner (DIPE)		ND	1.0	100	)
Toluene	ND	0.50	100		Ethyl-t-Butyl Et	ther (ETBE)		ND	1.0	100	)
Xylenes (total)	ND	0.50	100		Tert-Amyl-Meth	hyl Ether (T	AME)	ND	1.0	100	)
Methyl-t-Butyl Ether (MTBE)	ND	0.50	100		TPPH			250	50	100	)
Surrogates:	<u>REC (%)</u>	Control		Qual	Surrogates:			<u>REC (%)</u>	Control		<u>Qual</u>
		<u>Limits</u>							<u>Limits</u>		
Dibromofluoromethane	104	73-139			1,2-Dichloroeth	nane-d4		110	73-145		
Toluene-d8	109	90-108		2	1,4-Bromofluor	obenzene		101	71-113		
Toluene-d8-TPPH	112	88-112									
V-1-14.5'			09-02-0	)805-24-A	02/06/09 13:00	Solid	GC/MS UU	02/16/09	02/17/ 08:0	09 3	090216L02
Parameter	Result	RI	DF	Qual	Parameter			Result	RI	DF	Qual
Benzene	ND	0.0050	1	<u></u>	Tert-Butyl Alco	hol (TRA)			0.050	1	
Ethylbenzene		0.0050	1		Diisopropyl Eth				0.030	1	
		0.0050	1		Ethyl_t_Butyl Et	hor (FTRE)			0.010	1	
Xvlenes (total)	ND	0.0050	1		Tert-Amyl-Meth	hvl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH		· ···· - )	1 1	0.010	1	
Surrogates:	REC (%)	Control	I	Qual	Surrogates:			RFC (%)	Control	I	Qual
<u>ourrogado.</u>	<u>IXEO (70)</u>	Limits		Suu	canogatoo.		-		Limits		Guu
Dibromofluoromethane	112	73-139			1.2-Dichloroeth	nane-d4		123	73-145		
Toluene-d8	107	90-108			1,4-Bromofluor	obenzene		103	71-113		
Toluene-d8-TPPH	109	88-112			, . <u></u>						

RL - Reporting Limit , DF - Dilution Factor

, Qual - Qualifiers

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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La	lb Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Ti Analyz	ime ed	QC Batch ID
Method Blank			099-12	-798-276	N/A	Solid	GC/MS UU	02/14/09	02/14/ 12:3	09 2	090214L01
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butvl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	ner (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	ther (ETBE)	)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Metl	hyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		ТРРН		,	ND	0.50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		Qual
Dibromofluoromethane	106	73-139			1,2-Dichloroeth	nane-d4		109	73-145		
Toluene-d8	99	90-108			1,4-Bromofluor	robenzene		93	71-113		
Toluene-d8-TPPH	102	88-112									
Method Blank			099-12	-798-277	N/A	Solid	GC/MS PP	02/16/09	02/17/ 04:2	09 5	090216L01
Parameter	Result	RI	DF	Qual	Parameter			Result	RI	DF	Qual
Benzene	ND	0.0050	1	Guu	Tert-Butyl Alco				0.050	1	dua
Ethylbenzene		0.0050	1			nor (DIPE)			0.050	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	ther (FTBF)	)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amvl-Met	hvl Ether (T	, AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH		,	ND	0.010	1	
Surrogates:	REC (%)	Control		Qual	Surrogates:			REC (%)	Control	'	Qual
	<u></u>	Limits		<u>a a a a</u>	<u>eanogateor</u>			<u></u>	Limits		0,0101
Dibromofluoromethane	102	73-139			1,2-Dichloroeth	nane-d4		105	73-145		
Toluene-d8	101	90-108			1,4-Bromofluor	robenzene		97	71-113		
Toluene-d8-TPPH	100	88-112									
Method Blank			099-12	-798-278	N/A	Solid	GC/MS UU	02/16/09	02/17/ 01:34	09 4	090216L02
Parameter	Result	RL	DF	Qual	Parameter			Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butvl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	ner (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethvl-t-Butvl Et	ther (ETBE)	)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Metl	hyl Ether (T	AME)	ND	0.010		
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		TPPH	. (	,	ND	0.50	1	
Surrogates:	<u>REC (%)</u>	Control Limits	-	<u>Qual</u>	Surrogates:			<u>REC (%)</u>	Control Limits		<u>Qual</u>
Dibromofluoromethane	108	73-139			1,2-Dichloroeth	nane-d4		116	73-145		
Toluene-d8	101	90-108			1,4-Bromofluor	robenzene		89	71-113		
Toluene-d8-TPPH	103	88-112									

RL - Reporting Limit , DF - Dilution Factor ,

r, Qual - Qualifiers

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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/07/09Work Order No:09-02-0805Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:mg/kg

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La N	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Ti d Analyz	me ed Q	C Batch ID
Method Blank			099-12-798-279		N/A	Solid	GC/MS UU	J 02/16/09 02/17/09 09021 01:58		90216L03	
Parameter	Result	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	100		Tert-Butyl Alcoh	ol (TBA)		ND	5.0	100	
Ethylbenzene	ND	0.50	100		Diisopropyl Ethe	r (DIPE)		ND	1.0	100	
Toluene	ND	0.50	100		Ethyl-t-Butyl Eth	er (ETBE)		ND	1.0	100	
Xylenes (total)	ND	0.50	100		Tert-Amyl-Methy	/I Ether (T	AME)	ND	1.0	100	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	100		TPPH			ND	50	100	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:		<u> </u>	<u>REC (%)</u>	<u>Control</u> Limits		Qual
Dibromofluoromethane	105	73-139			1,2-Dichloroetha	ane-d4		115	73-145		
Toluene-d8	100	90-108			1,4-Bromofluoro	benzene		91	71-113		
Toluene-d8-TPPH	103	88-112									

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method:

02/07/09
09-02-0805
EPA 3550B
EPA 8015B

#### Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	,	Date Analyzed	MS/MSD Batch Number	
SB-5-2'	Solid	GC 43	02/10/09		02/11/09	090210S04	
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	RPD CL	Qualifiers	
Diesel Range Organics	103	105	64-130	2	0-15		

RPD - Relative Percent Difference, CL - Control Limit






Date Received: Work Order No: Preparation: Method:

02/07/09
09-02-0805
EPA 3550B
EPA 8015B

## Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-4-15'	Solid	GC 48	02/10/09		02/10/09	090210S06
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	RPD CL	Qualifiers
Diesel Range Organics	115	109	64-130	4	0-15	

RPD - Relative Percent Difference, CL - Control Limit



02/07/09 09-02-0805 EPA 3550B EPA 8015B (M)



## sonelac"

Conestoga-Rovers & Associates	Date Received:
19449 Riverside Drive, Suite 230	Work Order No:
Sonoma, CA 95476-6955	Preparation:
	Method:

### Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-5-2'	Solid	GC 43	02/10/09		02/11/09	090210S05
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Motor Oil	80	86	64-130	8	0-15	

RPD - Relative Percent Difference, CL - Control Limit





## anelac "

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: Work Order No: Preparation: Method:



## Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyz	e N ed	MS/MSD Batch Number
SB-4-15'	Solid	GC 48	02/10/09	02/10/	09	090210S07
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Motor Oil	103	107	64-130	4	0-15	

RPD - Relative Percent Difference, CL - Control Limit





Date Received: Work Order No: Preparation: Method: 02/07/09 09-02-0805 EPA 5030B LUFT GC/MS / EPA 8260B

## Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-02-0865-3	Aqueous	GC/MS RR	02/18/09		02/18/09	090218S01
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	94	95	88-118	1	0-7	
Carbon Tetrachloride	107	106	67-145	1	0-11	
Chlorobenzene	92	91	88-118	0	0-7	
1,2-Dibromoethane	97	97	70-130	0	0-30	
1,2-Dichlorobenzene	92	90	86-116	1	0-8	
1,1-Dichloroethene	104	103	70-130	0	0-25	
Ethylbenzene	92	92	70-130	0	0-30	
Toluene	93	95	87-123	2	0-8	
Trichloroethene	93	94	79-127	1	0-10	
Vinyl Chloride	93	93	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	87	88	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	87	87	36-168	0	0-45	
Diisopropyl Ether (DIPE)	118	116	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	108	109	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	93	95	72-126	3	0-12	
Ethanol	107	108	53-149	1	0-31	

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Date Received: Work Order No: Preparation: Method: 02/07/09 09-02-0805 EPA 5030B LUFT GC/MS / EPA 8260B

## Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-02-1110-1	Solid	GC/MS UU	02/14/09		02/14/09	090214S01
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	104	100	79-115	5	0-13	
Carbon Tetrachloride	115	108	55-139	6	0-15	
Chlorobenzene	103	97	79-115	5	0-17	
1,2-Dibromoethane	100	94	70-130	6	0-30	
1,2-Dichlorobenzene	99	94	63-123	5	0-23	
1,1-Dichloroethene	106	98	69-123	8	0-16	
Ethylbenzene	108	103	70-130	5	0-30	
Toluene	102	97	79-115	5	0-15	
Trichloroethene	105	103	66-144	2	0-14	
Vinyl Chloride	94	90	60-126	5	0-14	
Methyl-t-Butyl Ether (MTBE)	94	90	68-128	4	0-14	
Tert-Butyl Alcohol (TBA)	96	99	44-134	3	0-37	
Diisopropyl Ether (DIPE)	108	104	75-123	4	0-12	
Ethyl-t-Butyl Ether (ETBE)	105	101	75-117	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	99	79-115	2	0-12	
Ethanol	106	110	42-138	4	0-28	

RPD - Relative Percent Difference, CL - Control Limit

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Date Received: Work Order No: Preparation: Method: 02/07/09 09-02-0805 EPA 5030B LUFT GC/MS / EPA 8260B

## Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-4-10'	Solid	GC/MS PP	02/16/09		02/17/09	090216S01
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	98	97	79-115	0	0-13	
Carbon Tetrachloride	100	105	55-139	5	0-15	
Chlorobenzene	92	93	79-115	2	0-17	
1,2-Dibromoethane	94	97	70-130	3	0-30	
1,2-Dichlorobenzene	81	87	63-123	8	0-23	
1,1-Dichloroethene	114	114	69-123	0	0-16	
Ethylbenzene	92	94	70-130	2	0-30	
Toluene	97	98	79-115	1	0-15	
Trichloroethene	96	95	66-144	1	0-14	
Vinyl Chloride	94	93	60-126	0	0-14	
Methyl-t-Butyl Ether (MTBE)	104	104	68-128	1	0-14	
Tert-Butyl Alcohol (TBA)	98	95	44-134	3	0-37	
Diisopropyl Ether (DIPE)	105	105	75-123	0	0-12	
Ethyl-t-Butyl Ether (ETBE)	104	105	75-117	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	98	79-115	1	0-12	
Ethanol	2	43	42-138	178	0-28	3,4

RPD - Relative Percent Difference, CL - Control Limit

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7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501





Date Received: Work Order No: Preparation: Method: 02/07/09 09-02-0805 EPA 5030B LUFT GC/MS / EPA 8260B

## Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
V-2-10'	Solid	GC/MS UU	02/16/09		02/17/09	090216S02
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	102	103	79-115	1	0-13	
Carbon Tetrachloride	110	111	55-139	2	0-15	
Chlorobenzene	97	97	79-115	0	0-17	
1,2-Dibromoethane	98	99	70-130	1	0-30	
1,2-Dichlorobenzene	92	90	63-123	1	0-23	
1,1-Dichloroethene	102	104	69-123	2	0-16	
Ethylbenzene	102	102	70-130	0	0-30	
Toluene	99	99	79-115	0	0-15	
Trichloroethene	97	97	66-144	1	0-14	
Vinyl Chloride	90	95	60-126	5	0-14	
Methyl-t-Butyl Ether (MTBE)	95	99	68-128	5	0-14	
Tert-Butyl Alcohol (TBA)	92	97	44-134	5	0-37	
Diisopropyl Ether (DIPE)	108	109	75-123	1	0-12	
Ethyl-t-Butyl Ether (ETBE)	102	106	75-117	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	102	79-115	1	0-12	
Ethanol	63	31	42-138	69	0-28	4,3

RPD - Relative Percent Difference, CL - Control Limit

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# A DE DIN ACCORDANCE

Date Received:	N/A
Work Order No:	09-02-0805
Preparation:	EPA 3550B
Method:	EPA 8015B
	Date Received: Work Order No: Preparation: Method:

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyz	ed	LCS/LCSD Batc Number	h
099-12-025-622	Solid	GC 43	02/10/09	02/11/0	)9	090210B04	
Parameter	<u>LCS %</u>	<u> 6REC LCSD</u>	%REC <u></u> %	6REC CL	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
Diesel Range Organics	90	88	3	75-123	2	0-12	

RPD - Relative Percent Difference, CL - Control Limit





# when the accord and and a second and a second a

Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrur	Da ment Prep	ate bared	Date Analyz	e zed	LCS/LCSD Batc Number	h
099-12-025-623	Solid	GC 4	18 02/1	0/09	02/10/	09	090210B06	
Parameter	LCS %	6REC	LCSD %REC	<u>%RE</u>	C CL	<u>RPD</u>	RPD CL	<b>Qualifiers</b>
Diesel Range Organics	91		92	75	-123	2	0-12	

RPD - Relative Percent Difference, CL - Control Limit





# when the accord and and a second and a second a

Date Received:	N/A
Work Order No:	09-02-0805
Preparation:	EPA 3510C
Method:	EPA 8015B
	Date Received: Work Order No: Preparation: Method:

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analy:	e zed	LCS/LCSD Batc Number	h
099-12-211-964	Aqueous	GC 47	02/12/09	02/14/	09	090212B12	
Parameter	<u>LCS %</u>	<u> 6REC LCSD</u>	<u>%REC 9</u>	6REC CL	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
Diesel Range Organics	116	112	2	75-117	4	0-13	

RPD - Relative Percent Difference, CL - Control Limit





## the nelac

Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepar	e D red Ana	ate lyzed	LCS/LCSD Batc Number	h
099-12-234-374	Aqueous	GC 47	02/12/	09 02/1	4/09	090212B13	
Parameter	LCS %	<u> KEC LCSI</u>	<u> </u>	%REC CL	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
TPH as Motor Oil	97	g	8	75-117	1	0-13	

RPD - Relative Percent Difference, CL - Control Limit





## the nelac

Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepa	e D red Ana	ate alyzed	LCS/LCSD Bate Number	h
099-12-254-677	Solid	GC 43	02/10/	<b>/09 02/</b> 1	1/09	090210B05	
Barametar					חספ		Qualifiara
Parameter	<u>LC3 7</u>	<u>KEC LUSL</u>	MREC	<u>%REC CL</u>	RPD	RPD CL	Quaimers
TPH as Motor Oil	78	78	3	75-123	0	0-12	

RPD - Relative Percent Difference, CL - Control Limit





## ACCO

Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0805
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepar	e D ed Ana	ate Ilyzed	LCS/LCSD Batc Number	h
099-12-254-678	Solid	GC 48	02/10/	09 02/1	0/09	090210B07	
Parameter	<u>LCS %</u>	<u> KEC LCS</u>	D %REC	%REC CL	RPD	RPD CL	<u>Qualifiers</u>
TPH as Motor Oil	93	ç	92	75-123	1	0-12	

RPD - Relative Percent Difference, CL - Control Limit

hM





Date Received: Work Order No: Preparation: Method: N/A 09-02-0805 EPA 5030B LUFT GC/MS / EPA 8260B

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Matrix Instrument		Date Analyzed		LCS/LCSD I Numbe	Batch r
099-12-767-1,144	Aqueous	GC/MS RR	02/18/09	02/18/09		090218L	01
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	<u>RPD CL</u>	<b>Qualifiers</b>
Benzene	96	94	84-120	78-126	2	0-8	
Carbon Tetrachloride	108	104	63-147	49-161	4	0-10	
Chlorobenzene	94	91	89-119	84-124	3	0-7	
1,2-Dibromoethane	98	96	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	92	91	89-119	84-124	1	0-9	
1,1-Dichloroethene	105	101	77-125	69-133	4	0-16	
Ethylbenzene	94	92	80-120	73-127	2	0-20	
Toluene	96	94	83-125	76-132	2	0-9	
Trichloroethene	97	93	89-119	84-124	3	0-8	
Vinyl Chloride	94	94	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	90	87	82-118	76-124	4	0-13	
Tert-Butyl Alcohol (TBA)	87	89	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	119	116	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	112	109	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	95	76-124	68-132	3	0-10	
Ethanol	102	103	60-138	47-151	1	0-32	
ТРРН	102	102	65-135	53-147	1	0-30	

 Total number of LCS compounds :
 17

 Total number of ME compounds :
 0

 Total number of ME compounds allowed :
 1

 LCS ME CL validation result :
 Pass

~ M

RPD - Relative Percent Difference, CL - Control Limit





Date Received: Work Order No: Preparation: Method: N/A 09-02-0805 EPA 5030B LUFT GC/MS / EPA 8260B

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Analy	ite yzed	LCS/LCSD E Number	Batch
099-12-798-276	Solid	GC/MS UU	02/14/09	02/14/	/09	090214L0	01
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	RPD CL	Qualifiers
Benzene	106	101	84-114	79-119	6	0-7	
Carbon Tetrachloride	113	104	66-132	55-143	8	0-12	
Chlorobenzene	105	101	87-111	83-115	4	0-7	
1,2-Dibromoethane	107	104	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	107	101	79-115	73-121	5	0-8	
1,1-Dichloroethene	105	97	73-121	65-129	8	0-12	
Ethylbenzene	111	105	80-120	73-127	6	0-20	
Toluene	104	99	78-114	72-120	5	0-7	
Trichloroethene	105	99	84-114	79-119	5	0-8	
Vinyl Chloride	84	85	63-129	52-140	1	0-15	
Methyl-t-Butyl Ether (MTBE)	103	99	77-125	69-133	4	0-11	
Tert-Butyl Alcohol (TBA)	92	98	47-137	32-152	6	0-27	
Diisopropyl Ether (DIPE)	117	109	76-130	67-139	7	0-8	
Ethyl-t-Butyl Ether (ETBE)	114	109	76-124	68-132	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	110	106	82-118	76-124	3	0-11	
Ethanol	105	111	59-131	47-143	6	0-21	
ТРРН	102	97	65-135	53-147	5	0-30	

Total number of LCS compounds : 17 Total number of ME compounds : 0 Total number of ME compounds allowed : 1 LCS ME CL validation result : Pass

~ M

RPD - Relative Percent Difference, CL - Control Limit





Date Received: Work Order No: Preparation: Method: N/A 09-02-0805 EPA 5030B LUFT GC/MS / EPA 8260B

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Analy	te /zed	LCS/LCSD E Number	Batch
099-12-798-277	Solid	GC/MS PP	02/16/09	02/17/	09	090216L0	01
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Benzene	103	100	84-114	79-119	2	0-7	
Carbon Tetrachloride	104	104	66-132	55-143	1	0-12	
Chlorobenzene	103	101	87-111	83-115	2	0-7	
1,2-Dibromoethane	106	104	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	100	100	79-115	73-121	0	0-8	
1,1-Dichloroethene	113	111	73-121	65-129	1	0-12	
Ethylbenzene	101	100	80-120	73-127	1	0-20	
Toluene	106	103	78-114	72-120	2	0-7	
Trichloroethene	113	113	84-114	79-119	0	0-8	
Vinyl Chloride	94	95	63-129	52-140	1	0-15	
Methyl-t-Butyl Ether (MTBE)	110	107	77-125	69-133	3	0-11	
Tert-Butyl Alcohol (TBA)	102	106	47-137	32-152	4	0-27	
Diisopropyl Ether (DIPE)	110	106	76-130	67-139	3	0-8	
Ethyl-t-Butyl Ether (ETBE)	109	106	76-124	68-132	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	104	82-118	76-124	2	0-11	
Ethanol	116	120	59-131	47-143	3	0-21	
ТРРН	92	91	65-135	53-147	1	0-30	

 Total number of LCS compounds :
 17

 Total number of ME compounds :
 0

 Total number of ME compounds allowed :
 1

 LCS ME CL validation result :
 Pass

~ M

RPD - Relative Percent Difference, CL - Control Limit





Date Received: Work Order No: Preparation: Method: N/A 09-02-0805 EPA 5030B LUFT GC/MS / EPA 8260B

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal <u>y</u>	ate yzed	LCS/LCSD I Numbe	Batch r
099-12-798-278	Solid	GC/MS UU	02/16/09	02/17/	/09	090216L	02
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	RPD CL	<b>Qualifiers</b>
Benzene	101	101	84-114	79-119	0	0-7	
Carbon Tetrachloride	107	108	66-132	55-143	1	0-12	
Chlorobenzene	100	98	87-111	83-115	2	0-7	
1,2-Dibromoethane	104	102	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	100	99	79-115	73-121	1	0-8	
1,1-Dichloroethene	97	101	73-121	65-129	4	0-12	
Ethylbenzene	103	102	80-120	73-127	1	0-20	
Toluene	98	98	78-114	72-120	0	0-7	
Trichloroethene	100	102	84-114	79-119	2	0-8	
Vinyl Chloride	91	91	63-129	52-140	1	0-15	
Methyl-t-Butyl Ether (MTBE)	100	100	77-125	69-133	0	0-11	
Tert-Butyl Alcohol (TBA)	96	96	47-137	32-152	0	0-27	
Diisopropyl Ether (DIPE)	113	111	76-130	67-139	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	109	108	76-124	68-132	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	107	106	82-118	76-124	1	0-11	
Ethanol	118	97	59-131	47-143	19	0-21	
ТРРН	98	96	65-135	53-147	2	0-30	

Total number of LCS compounds : 17 Total number of ME compounds : 0 Total number of ME compounds allowed : 1 LCS ME CL validation result : Pass

~ M

RPD - Relative Percent Difference, CL - Control Limit





Date Received: Work Order No: Preparation: Method: N/A 09-02-0805 EPA 5030B LUFT GC/MS / EPA 8260B

## Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal <u>y</u>	ite yzed	LCS/LCSD I Numbe	Batch
099-12-798-279	Solid	GC/MS UU	02/16/09	02/17/	/09	090216L	03
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Benzene	101	101	84-114	79-119	0	0-7	
Carbon Tetrachloride	107	108	66-132	55-143	1	0-12	
Chlorobenzene	100	98	87-111	83-115	2	0-7	
1,2-Dibromoethane	104	102	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	100	99	79-115	73-121	1	0-8	
1,1-Dichloroethene	97	101	73-121	65-129	4	0-12	
Ethylbenzene	103	102	80-120	73-127	1	0-20	
Toluene	98	98	78-114	72-120	0	0-7	
Trichloroethene	100	102	84-114	79-119	2	0-8	
Vinyl Chloride	91	91	63-129	52-140	1	0-15	
Methyl-t-Butyl Ether (MTBE)	100	100	77-125	69-133	0	0-11	
Tert-Butyl Alcohol (TBA)	96	96	47-137	32-152	0	0-27	
Diisopropyl Ether (DIPE)	113	111	76-130	67-139	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	109	108	76-124	68-132	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	107	106	82-118	76-124	1	0-11	
Ethanol	118	97	59-131	47-143	19	0-21	
ТРРН	98	96	65-135	53-147	2	0-30	

Total number of LCS compounds : 17 Total number of ME compounds : 0 Total number of ME compounds allowed : 1 LCS ME CL validation result : Pass

~ M

RPD - Relative Percent Difference, CL - Control Limit



MM



Work Order Number: 09-02-0805

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
А	Result is the average of all dilutions, as defined by the method.
В	Analyte was present in the associated method blank.
С	Analyte presence was not confirmed on primary column.
Е	Concentration exceeds the calibration range.
Н	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
Ν	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
Х	% Recovery and/or RPD out-of-range.

Z Analyte presence was not confirmed by second column or GC/MS analysis.

#### LAB (LOCATION)

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## Shell Oil Products Chain Of Custody Record

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PROJECT CONTACT (Handcopy or PDF Report to):	ennis Baertschi					Feli	CIA BALLA	ard, C	RA, So	onoma	۱ <u> </u>		707-	935-48	350			sono	maedf	@craw	vorid.cc	m	241408-2008-10
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#### LAB (LOCATION)

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## Shell Oil Products Chain Of Custody Record

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#### LAB (LOCATION)

## Shell Oil Products Chain Of Custody Record

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Environmental				
<b>entre atter rest</b> i tre		IFURI		ler <u>(</u> of _
CLIENT:		I	DATE: _2_	-17100
TEMPERATURE: (Criteria	: 0.0 °C – 6.0 °C, not frozen)			
Temperature <u> </u>	°C - 0.2°C (CF) =	<u>+_</u> °C ₽	Blank [	∃ Sample
□ Sample(s) outside tempera	ature criteria (PM/APM contacted by:	).		
☐ Sample(s) outside tempera	ature criteria but received on ice/chill	ed on same day	of sampling.	
□ Received at ambient tem	perature, placed on ice for tran	sport by Cour	ier.	
Ambient Temperature: 🗆 A	ir □ Filter □ Metals Only	🗆 PCBs On	ly	Initial:
CUSTODY SEALS INTAC	 T:			
	□ No (Not Intact) ⊡	Not Present	□ N/A	Initial: WA
□ Sample □	□ No (Not Intact) □	Not Present		Initial: $WO$
SAMPLE CONDITION:		Yes	No	N/A
Chain-Of-Custody (COC) doc	ument(s) received with samples			
COC document(s) received c	omplete			
Sampler's name indicated on	COC	3		
Sample container label(s) cor	isistent with COC	Ø		
Sample container(s) intact an	d good condition	🗹		
Correct containers and volum	e for analyses requested	🗹 🖊		
Analyses received within hold	ing time	🗹 🖉		
Proper preservation noted on	COC or sample container	🗹 🦯		
Volatile analysis container(s)	free of headspace	🗹		
lediar bag(s) free of condens	ation			
CONTAINER TYPE:	_ /			
Solid: ∐4ozCGJ □8øzCG.	I □16ozCGJ ØSleeve □EnC	ores® □Terra	aCores® [	
water: UVOA ØVOAh	□VOAna <sub>2</sub> □125AGB □125A(	GBh □125AG	Bpo₄ □1A	GB 🗆 1AGBna
	AGBs 250CGB 250CGBs	□1PB □50	0PB 🗆 500	PBna □250P
	'Bznna □100PBsterile □100F	PBna₂ □	□	D
AIR: LI I ediar® LISumma® Container: C:Clear A:Amber P:Pc		C	hecked/Lab	eled by: UB
	in aduo G.Giass J.Jai B.Bottle		Revie	wed by: 🗸 🖓

SOP T100\_090 (12/10/08)





Supplemental Report 1

March 26, 2009

The original report has been revised/corrected.

Dennis Baertschi Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955

Subject: Calscience Work Order No.: 09-02-0951 Client Reference: 8930 Bancroft Ave., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/10/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Philip Samelle for

Calscience Environmental Laboratories, Inc. Jessie Kim Project Manager

 CA-ELAP ID: 1230
 NELAP ID: 03220CA
 CSDLAC ID: 10109
 SCAQMD ID: 93LA0830

 A
 7440 Lincoln Way, Garden Grove, CA 92841-1427
 TEL:(714) 895-5494
 FAX: (714) 894-7501

## Page 2 of 27



Conestoga-Rovers & Associates	Date Received:	02/10/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0951
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

## Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5-16'		09-02-0951-1-A	02/06/09 14:45	Solid	GC 43	02/11/09	02/12/09 06:09	090211B07
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	98	61-145						
Method Blank		099-12-025-624	N/A	Solid	GC 43	02/11/09	02/12/09 03:11	090211B07
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	103	61-145						







Page 1 of 1

## alscience nvironmental aboratories, Inc.

Conestoga-Rovers & Associates	Date Received:	02/10/09
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0951
Sonoma, CA 95476-6955	Preparation:	EPA 3510C
	Method:	EPA 8015B

## Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number	er		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4-16' -17' W			09-02-0951-2-D	02/06/09 13:30	Aqueous	GC 47	02/12/09	02/15/09 00:37	090212B12
Comment(s):	-The sample chromatograp	ohic pattern f	for TPH does not ma	tch the chror	natographic p	pattern of the	specified sta	indard. Quai	ntitation
Parameter	R	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Diesel Range Organio	cs 3	300000	2500	50		ug/L			
Surrogates:	E	REC (%)	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	1	108	68-140						
SB-3-16'-17' W			09-02-0951-3-D	02/06/09 14:00	Aqueous	GC 47	02/12/09	02/16/09 18:27	090212B12
Comment(s):	-The sample chromatograp	ohic pattern f	for TPH does not ma	tch the chror	natographic p	pattern of the	specified sta	andard. Quai	ntitation
Parameter	<u>R</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Diesel Range Organio	os 3	320	50	1		ug/L			
Surrogates:	<u>F</u>	REC (%)	Control Limits		Qual				
Decachlorobiphenyl	8	33	68-140						
V-2-16'-17' W			09-02-0951-4-D	02/06/09 16:00	Aqueous	GC 47	02/12/09	02/15/09 01:11	090212B12
Comment(s):	-The sample chromatograp	ohic pattern f	for TPH does not ma	tch the chror	natographic p	pattern of the	specified sta	indard. Quai	ntitation
Parameter	<u>R</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual	 <u>Units</u>			
Diesel Range Organio	cs 2	2700	100	2		ug/L			

DF - Dilution Factor

,

REC (%)

105

Control Limits

68-140

Qual - Qualifiers



Surrogates:

Decachlorobiphenyl

Qual

N ACCORD

Page 1 of 2

## Page 4 of 27

Page 2 of 2





Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/10/09Work Order No:09-02-0951Preparation:EPA 3510CMethod:EPA 8015B

### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank		099-12-211-964	N/A	Aqueous	GC 47	02/12/09	02/14/09 21:12	090212B12
Parameter	<u>Result</u>	<u>RL</u>	DE	Qual	<u>Units</u>			
Diesel Range Organics	ND	50	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	105	68-140						



## Page 5 of 27



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Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method:

Page 1 of 1

### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4-16' -17' W		09-02-0951-2-D	02/06/09 13:30	Aqueous	GC 47	02/12/09	02/15/09 00:37	090212B13
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	12000	50		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	108	68-140						
SB-3-16'-17' W		09-02-0951-3-D	02/06/09 14:00	Aqueous	GC 47	02/12/09	02/16/09 18:27	090212B13
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	1300	250	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	83	68-140						
V-2-16'-17' W		09-02-0951-4-D	02/06/09 16:00	Aqueous	GC 47	02/12/09	02/15/09 01:11	090212B13
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	2100	500	2		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		Qual				
Decachlorobiphenyl	105	68-140						
Method Blank		099-12-234-374	N/A	Aqueous	GC 47	02/12/09	02/14/09 21:12	090212B13
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	250	1		ug/L			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	105	68-140						

 $\label{eq:RL-Reporting Limit} RL - Reporting Limit \ , \qquad DF - Dilution Factor \ , \qquad Qual - Qualifiers$ 



## Page 6 of 27



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received: Work Order No: Preparation: Method:

## 02/10/09 09-02-0951 EPA 3550B EPA 8015B (M)

Page 1 of 1

## Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5-16'		09-02-0951-1-A	02/06/09 14:45	Solid	GC 43	02/11/09	02/12/09 06:09	090211B08
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	98	61-145						
Method Blank		099-12-254-680	N/A	Solid	GC 43	02/11/09	02/12/09 03:11	090211B08
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
TPH as Motor Oil	ND	25	1		mg/kg			
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>				
Decachlorobiphenvl	103	61-145						



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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/10/09Work Order No:09-02-0951Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:ug/L

### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La N	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Ti Analyz	me ed	QC Batch ID
SB-4-16' -17' W			09-02-0	)951-2-B	02/06/09 13:30	Aqueous	GC/MS RR	02/19/09	02/19/0 19:57	09 7	090219L01
Parameter	Result	RI	DF	Qual	Parameter			Result	RI	DF	Qual
Benzene		12	25	0,0,0,0	Tert-Butyl Alc	obol (TBA)			250	25	
Ethylbenzene	84	25	25			her (DIPF)		ND	200 50	25	
Toluene		25	25		Ethyl_t_Butyl E	ther (ETRE)		ND	50	25	
Xylenes (total)	ND	25	25		Tert-Amvl-Me	thyl Ether (TA		ND	50	25	
Methyl-t-Butyl Ether (MTBE)	ND	25	25		TPPH		(()L)	110000	100000	200	0
Surrogates:	REC (%)	Control	20	Qual	Surrogates:			RFC (%)	Control	200	Qual
<u>ounogatos.</u>	<u>IXEO (70)</u>	Limits		<u>Quui</u>	Ourrogates.		-		Limits		Quu
Dibromofluoromethane	105	74-140			1.2-Dichloroet	thane-d4		96	74-146		
Toluene-d8	111	88-112			Toluene-d8-T	PPH		107	88-112		
1,4-Bromofluorobenzene	103	74-110						-			
SB-3-16'-17' W			09-02-0	951-3-B	02/06/09 14:00	Aqueous	GC/MS RR	02/19/09	02/19/0 20:21	09 I	090219L01
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Et	her (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E	ther (ETBE)		ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	thyl Ether (TA	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH			ND	50	1	
Surrogates:	<u>REC (%)</u>	Control		Qual	Surrogates:			<u>REC (%)</u>	Control		<u>Qual</u>
		<u>Limits</u>							Limits		
Dibromofluoromethane	104	74-140			1,2-Dichloroet	thane-d4		98	74-146		
l oluene-d8	100	88-112			l oluene-d8- l	РРН		96	88-112		
1,4-Bromofluorobenzene	92	74-110									
V-2-16'-17' W			09-02-0	)951-4-C	02/06/09 16:00	Aqueous	GC/MS RR	02/19/09	02/20/0 10:53	09 3	090219L02
Parameter	Result	RI	DF	Qual	Parameter			Result	RI	DF	Qual
Benzene	ND	0.50	1		Tort-Butyl Alc	obol (TBA)			10	1	
Ethylbenzene	15	1.0	1			her (DIDE)			20	1	
		1.0	1		Ethyl_t_Butyl E	ther (ETRE)			2.0	1	
Xylenes (total)	49	1.0	1		Tert-Amvl-Me	thyl Ether (TA		ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ч.5 ND	1.0	1		TPPH			2500	50	1	
Surrogates:	RFC (%)	Control	I	Qual	Surrogates:			RFC (%)	Control	1	Qual
<u></u>	<u></u>	Limits		scoul	<u>eanogatoo.</u>				Limits		<u>Quui</u>
Dibromofluoromethane	109	74-140			1,2-Dichloroet	thane-d4		104	74-146		
Toluene-d8	107	88-112			Toluene-d8-T	PPH		103	88-112		
1,4-Bromofluorobenzene	99	74-110			-						

RL - Reporting Limit , DF - Dilution Factor

r , Qual - Qualifiers

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Page 2 of 3



**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/10/09Work Order No:09-02-0951Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:ug/L

## Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La	lb Sample Number	Date/Time Collected	Matrix	Instrument	Date Preparec	Date/T Analyz	ime :ed	QC Batch ID
SB-5-15'-16' W			09-02-0	0951-5-B	02/06/09 11:00	Aqueous	GC/MS RR	02/19/09	02/19/ 21:0	'09 9	090219L01
Parameter	Result	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl E	ther (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl	Ether (ETBE)		ND	2.0	1	
Xylenes (total)	1.5	1.0	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	1.2	1.0	1		TPPH			63	50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>
Dibromofluoromethane	106	74-140			1,2-Dichloroe	thane-d4		99	74-146		
Toluene-d8	100	88-112			Toluene-d8-T	PPH		96	88-112		
1,4-Bromofluorobenzene	95	74-110									
Method Blank			099-12	-767-1,147	7 N/A	Aqueous	GC/MS R	02/18/09	02/19/ 03:0	'09 9	090218L02
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butvl Alc	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl E	ther (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E	Ether (ETBE)		ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		ТРРН			ND	50	1	
Surrogates:	<u>REC (%)</u>	Control		Qual	Surrogates:			<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
		Limits 1							Limits		
Dibromofluoromethane	113	74-140			1,2-Dichloroe	thane-d4		126	74-146		
Toluene-d8	100	88-112			Toluene-d8-T	PPH		101	88-112		
1,4-Bromofluorobenzene	100	74-110									
Method Blank			099-12	-767-1,154	4 N/A	Aqueous	GC/MS RR	02/19/09	02/19/ 15:5	'09 4	090219L01
Parameter	Result	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl E	ther (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl	Ether (ETBE)		ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH			ND	50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		Qual
Dibromofluoromethane	109	74-140			1,2-Dichloroe	thane-d4		102	74-146		
Toluene-d8	100	88-112			Toluene-d8-T	PPH		97	88-112		
1,4-Bromofluorobenzene	93	74-110									

RL - Reporting Limit , DF - Dilution Factor ,

, Qual - Qualifiers

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Page 3 of 3



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955 Date Received:02/10/09Work Order No:09-02-0951Preparation:EPA 5030BMethod:LUFT GC/MS / EPA 8260BUnits:ug/L

#### Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			La	b Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/T d Analyz	ime æd	QC Batch ID
Method Blank			099-12	-767-1,155	N/A	Aqueous	GC/MS RR	02/19/09	02/20/ 04:0	'09 1	090219L02
Parameter	Result	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	1		Tert-Butyl Alco	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Et	her (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E	ther (ETBE)		ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Met	hyl Ether (T	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH			ND	50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>
Dibromofluoromethane	108	74-140			1,2-Dichloroet	hane-d4		102	74-146		
Toluene-d8	99	88-112			Toluene-d8-TI	PPH		95	88-112		
1,4-Bromofluorobenzene	90	74-110									

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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**Analytical Report** 



Conestoga-Rovers & Associates 19449 Riverside Drive, Suite 230 Sonoma, CA 95476-6955

Date Received:	02/10/09
Work Order No:	09-02-0951
Preparation:	EPA 5030B
Method:	LUFT GC/MS / EPA 8260B
Units:	mg/kg

## Project: 8930 Bancroft Ave., Oakland, CA

Client Sample Number			Lal N	o Sample lumber	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Ti d Analyz	me ed	QC Batch ID
SB-5-16'			09-02-0	951-1-A	02/06/09 14:45	Solid	GC/MS UU	02/18/09	02/18/ 13:4	09 6	090218L01
Parameter	<u>Result</u>	<u>RL</u>	DF	Qual	Parameter			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)	)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		ТРРН		,	ND	0.50	1	
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>	Surrogates:			<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>
Dibromofluoromethane	114	73-139			1,2-Dichloroeth	nane-d4		131	73-145		
Toluene-d8	103	90-108			1,4-Bromofluor	obenzene		93	71-113		
Toluene-d8-TPPH	102	88-112									
Method Blank			099-12-	798-282	N/A	Solid	GC/MS UU	02/18/09	02/18/ 12:5	09 6	090218L01
Parameter	Result	<u>RL</u>	DF	Qual	Parameter			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)	)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		ТРРН			ND	0.50	1	
Surrogates:	<u>REC (%)</u>	Control		Qual	Surrogates:			<u>REC (%)</u>	Control		<u>Qual</u>
Dibromofluoromethane	108	<u>Limits</u> 73-139			1.2-Dichloroeth	ane-d4		117	<u>Limits</u> 73-145		
Toluene-d8	101	90-108			1.4-Bromofluor	obenzene		90	71-113		
Toluene-d8-TPPH	100	88-112			., / 2.0						

hM





Date Received: Work Order No: Preparation: Method:

02/10/09
09-02-0951
EPA 3550B
EPA 8015B

## Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	,	Date Analyzed	MS/MSD Batch Number
SB-5-16'	Solid	GC 43	02/11/09		02/12/09	090211S07
Parameter	<u>MS %REC</u>	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Diesel Range Organics	86	91	64-130	6	0-15	

RPD - Relative Percent Difference, CL - Control Limit





Date Received: Work Order No: Preparation: Method: 02/10/09 09-02-0951 EPA 3550B EPA 8015B (M)

## Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	A	Date Analyzed	MS/MSD Batch Number
SB-5-16'	Solid	GC 43	02/11/09	(	02/12/09	090211S08
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	RPD CL	Qualifiers
TPH as Motor Oil	89	84	64-130	5	0-15	

RPD - Relative Percent Difference, CL - Control Limit







Date Received: Work Order No: Preparation: Method: 02/10/09 09-02-0951 EPA 5030B LUFT GC/MS / EPA 8260B

## Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-02-1040-2	Aqueous	GC/MS R	02/18/09		02/19/09	090218S02
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
Benzene	89	94	88-118	5	0-7	
Carbon Tetrachloride	125	132	67-145	5	0-11	
Chlorobenzene	87	91	88-118	4	0-7	3
1,2-Dibromoethane	99	104	70-130	5	0-30	
1,2-Dichlorobenzene	85	88	86-116	4	0-8	3
1,1-Dichloroethene	110	114	70-130	3	0-25	
Ethylbenzene	90	94	70-130	4	0-30	
Toluene	88	92	87-123	5	0-8	
Trichloroethene	92	98	79-127	6	0-10	
Vinyl Chloride	97	104	69-129	7	0-13	
Methyl-t-Butyl Ether (MTBE)	110	118	71-131	6	0-13	
Tert-Butyl Alcohol (TBA)	103	101	36-168	2	0-45	
Diisopropyl Ether (DIPE)	95	98	81-123	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	99	103	72-126	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	104	72-126	7	0-12	
Ethanol	76	79	53-149	4	0-31	

RPD - Relative Percent Difference, CL - Control Limit

h. 11




Date Received: Work Order No: Preparation: Method: 02/10/09 09-02-0951 EPA 5030B LUFT GC/MS / EPA 8260B

### Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-02-1368-2	Aqueous	GC/MS RR	02/19/09		02/19/09	090219S01
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	93	91	88-118	2	0-7	
Carbon Tetrachloride	101	101	67-145	0	0-11	
Chlorobenzene	90	89	88-118	0	0-7	
1,2-Dibromoethane	95	92	70-130	3	0-30	
1,2-Dichlorobenzene	91	90	86-116	2	0-8	
1,1-Dichloroethene	98	97	70-130	1	0-25	
Ethylbenzene	90	91	70-130	0	0-30	
Toluene	96	94	87-123	2	0-8	
Trichloroethene	96	95	79-127	2	0-10	
Vinyl Chloride	91	91	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	100	96	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	70	78	36-168	4	0-45	
Diisopropyl Ether (DIPE)	117	113	81-123	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	110	107	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	93	72-126	3	0-12	
Ethanol	93	91	53-149	2	0-31	

h. 11





Date Received: Work Order No: Preparation: Method: 02/10/09 09-02-0951 EPA 5030B LUFT GC/MS / EPA 8260B

### Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-02-1079-6	Aqueous	GC/MS RR	02/19/09		02/20/09	090219S02
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	92	91	88-118	2	0-7	
Carbon Tetrachloride	103	101	67-145	2	0-11	
Chlorobenzene	87	87	88-118	0	0-7	3
1,2-Dibromoethane	90	92	70-130	2	0-30	
1,2-Dichlorobenzene	86	87	86-116	1	0-8	
1,1-Dichloroethene	100	97	70-130	2	0-25	
Ethylbenzene	87	86	70-130	1	0-30	
Toluene	92	91	87-123	1	0-8	
Trichloroethene	91	89	79-127	2	0-10	
Vinyl Chloride	94	94	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	86	85	71-131	0	0-13	
Tert-Butyl Alcohol (TBA)	90	88	36-168	2	0-45	
Diisopropyl Ether (DIPE)	115	116	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	108	107	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	91	93	72-126	2	0-12	
Ethanol	101	105	53-149	4	0-31	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 ·

5-5494 · FAX: (714) 894-7501





Date Received: Work Order No: Preparation: Method: 02/10/09 09-02-0951 EPA 5030B LUFT GC/MS / EPA 8260B

### Project 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-5-16'	Solid	GC/MS UU	02/18/09		02/18/09	090218S01
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
Benzene	102	103	79-115	0	0-13	
Carbon Tetrachloride	111	108	55-139	2	0-15	
Chlorobenzene	99	97	79-115	2	0-17	
1,2-Dibromoethane	100	95	70-130	6	0-30	
1,2-Dichlorobenzene	96	90	63-123	7	0-23	
1,1-Dichloroethene	105	103	69-123	2	0-16	
Ethylbenzene	104	102	70-130	2	0-30	
Toluene	99	98	79-115	1	0-15	
Trichloroethene	99	98	66-144	1	0-14	
Vinyl Chloride	90	91	60-126	1	0-14	
Methyl-t-Butyl Ether (MTBE)	101	95	68-128	6	0-14	
Tert-Butyl Alcohol (TBA)	97	101	44-134	3	0-37	
Diisopropyl Ether (DIPE)	110	105	75-123	5	0-12	
Ethyl-t-Butyl Ether (ETBE)	106	101	75-117	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	99	79-115	5	0-12	
Ethanol	97	81	42-138	18	0-28	





# sonelac "

Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0951
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B

### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Da Prepa	te ared A	Date malyzed	LCS/LCSD Batc Number	h
099-12-025-624	Solid	GC 43	02/11	/09 0	2/12/09	090211B07	
Parameter	LCS %	<u> KREC LC</u>	SD %REC	%REC CL	RPD	RPD CL	<u>Qualifiers</u>
Diesel Range Organics	106	i	105	75-123	0	0-12	

RPD - Relative Percent Difference, CL - Control Limit





# when the in ACCORDANCE

Date Received:	N/A
Work Order No:	09-02-0951
Preparation:	EPA 3510C
Method:	EPA 8015B
	Date Received: Work Order No: Preparation: Method:

### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analy:	e zed	LCS/LCSD Batc Number	h
099-12-211-964	Aqueous	GC 47	02/12/09	02/14/	09	090212B12	
Parameter	<u>LCS %</u>	<u> 6REC LCSD</u>	<u>%REC                                    </u>	6REC CL	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
Diesel Range Organics	116	112	2	75-117	4	0-13	

RPD - Relative Percent Difference, CL - Control Limit





# ACCOR

Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0951
Sonoma, CA 95476-6955	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)

### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepare	Da ed Anal	ate yzed	LCS/LCSD Batc Number	h
099-12-234-374	Aqueous	GC 47	02/12/0	9 02/1	4/09	090212B13	
Parameter	<u>LCS %</u>	REC LCSE	%REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
TPH as Motor Oil	97	98	3	75-117	1	0-13	

RPD - Relative Percent Difference, CL - Control Limit





# when the accord the source of 
Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	09-02-0951
Sonoma, CA 95476-6955	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)

### Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instru	ument	Date Prepa	e red	Date Analyzed		LCS/LCSD Batcl Number	n
099-12-254-680	Solid	GC	43	02/11/	/09	02/12/09		090211B08	
Parameter	LCS %	<u> «REC</u>	LCSD %	REC	<u>%REC (</u>	<u>CL</u> <u>F</u>	RPD	RPD CL	<b>Qualifiers</b>
TPH as Motor Oil	90		89		75-12	3	1	0-12	

RPD - Relative Percent Difference, CL - Control Limit







Date Received: Work Order No: Preparation: Method: N/A 09-02-0951 EPA 5030B LUFT GC/MS / EPA 8260B

# Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Analy	ite ∕zed	LCS/LCSD Numbe	Batch r
099-12-767-1,147	Aqueous	GC/MS R	02/18/09	02/19/	09	090218L	02
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	RPD CL	Qualifiers
Benzene	95	92	84-120	78-126	4	0-8	
Carbon Tetrachloride	137	130	63-147	49-161	5	0-10	
Chlorobenzene	97	91	89-119	84-124	7	0-7	
1,2-Dibromoethane	100	95	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	90	87	89-119	84-124	3	0-9	ME
1,1-Dichloroethene	121	116	77-125	69-133	4	0-16	
Ethylbenzene	102	98	80-120	73-127	4	0-20	
Toluene	96	91	83-125	76-132	5	0-9	
Trichloroethene	109	105	89-119	84-124	4	0-8	
Vinyl Chloride	113	110	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	109	105	82-118	76-124	4	0-13	
Tert-Butyl Alcohol (TBA)	97	94	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	101	92	81-123	74-130	9	0-11	
Ethyl-t-Butyl Ether (ETBE)	101	96	74-122	66-130	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	94	76-124	68-132	3	0-10	
Ethanol	85	80	60-138	47-151	7	0-32	
ТРРН	115	113	65-135	53-147	1	0-30	

 Total number of LCS compounds :
 17

 Total number of ME compounds :
 1

 Total number of ME compounds allowed :
 1

 LCS ME CL validation result :
 Pass

~ M

RPD - Relative Percent Difference, CL - Control Limit





Date Received: Work Order No: Preparation: Method: N/A 09-02-0951 EPA 5030B LUFT GC/MS / EPA 8260B

# Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal <u>y</u>	ite yzed	LCS/LCSD Batch Number				
099-12-767-1,154	Aqueous	GC/MS RR	02/19/09	02/19/	/09	090219L01				
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	RPD CL	Qualifiers			
Benzene	94	95	84-120	78-126	1	0-8				
Carbon Tetrachloride	108	108	63-147	49-161	0	0-10				
Chlorobenzene	91	91	89-119	84-124	1	0-7				
1,2-Dibromoethane	95	97	80-120	73-127	3	0-20				
1,2-Dichlorobenzene	91	89	89-119	84-124	2	0-9				
1,1-Dichloroethene	105	103	77-125	69-133	2	0-16				
Ethylbenzene	91	92	80-120	73-127	1	0-20				
Toluene	95	95	83-125	76-132	0	0-9				
Trichloroethene	96	96	89-119	84-124	0	0-8				
Vinyl Chloride	98	95	63-135	51-147	3	0-13				
Methyl-t-Butyl Ether (MTBE)	91	88	82-118	76-124	4	0-13				
Tert-Butyl Alcohol (TBA)	89	85	46-154	28-172	5	0-32				
Diisopropyl Ether (DIPE)	120	117	81-123	74-130	2	0-11				
Ethyl-t-Butyl Ether (ETBE)	112	109	74-122	66-130	3	0-12				
Tert-Amyl-Methyl Ether (TAME)	96	95	76-124	68-132	1	0-10				
Ethanol	106	102	60-138	47-151	4	0-32				
ТРРН	103	103	65-135	53-147	0	0-30				

Total number of LCS compounds : 17 Total number of ME compounds : 0 Total number of ME compounds allowed : 1 LCS ME CL validation result : Pass

~ M

RPD - Relative Percent Difference, CL - Control Limit





Date Received: Work Order No: Preparation: Method: N/A 09-02-0951 EPA 5030B LUFT GC/MS / EPA 8260B

# Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Analy	te /zed	LCS/LCSD Batch Number				
099-12-767-1,155	Aqueous	GC/MS RR	02/19/09	02/20/	09	090219L	)2			
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	<u>RPD CL</u>	Qualifiers			
Benzene	92	93	84-120	78-126	0	0-8				
Carbon Tetrachloride	107	104	63-147	49-161	3	0-10				
Chlorobenzene	89	90	89-119	84-124	1	0-7				
1,2-Dibromoethane	92	94	80-120	73-127	3	0-20				
1,2-Dichlorobenzene	88	88	89-119	84-124	0	0-9	ME			
1,1-Dichloroethene	104	100	77-125	69-133	4	0-16				
Ethylbenzene	90	91	80-120	73-127	1	0-20				
Toluene	93	93	83-125	76-132	1	0-9				
Trichloroethene	96	95	89-119	84-124	0	0-8				
Vinyl Chloride	100	95	63-135	51-147	5	0-13				
Methyl-t-Butyl Ether (MTBE)	84	82	82-118	76-124	2	0-13				
Tert-Butyl Alcohol (TBA)	88	90	46-154	28-172	2	0-32				
Diisopropyl Ether (DIPE)	113	110	81-123	74-130	2	0-11				
Ethyl-t-Butyl Ether (ETBE)	103	101	74-122	66-130	3	0-12				
Tert-Amyl-Methyl Ether (TAME)	88	90	76-124	68-132	2	0-10				
Ethanol	108	110	60-138	47-151	2	0-32				
ТРРН	98	101	65-135	53-147	3	0-30				

 Total number of LCS compounds :
 17

 Total number of ME compounds :
 1

 Total number of ME compounds allowed :
 1

 LCS ME CL validation result :
 Pass

~ M

RPD - Relative Percent Difference, CL - Control Limit





Date Received: Work Order No: Preparation: Method: N/A 09-02-0951 EPA 5030B LUFT GC/MS / EPA 8260B

# Project: 8930 Bancroft Ave., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal <u>y</u>	ite yzed	LCS/LCSD Batch Number				
099-12-798-282	Solid	GC/MS UU	02/18/09	02/18/	/09	090218L0	01			
Parameter	LCS %REC	LCSD %REC	<u>%REC CL</u>	ME CL	<u>RPD</u>	RPD CL	Qualifiers			
Benzene	103	102	84-114	79-119	1	0-7				
Carbon Tetrachloride	113	110	66-132	55-143	2	0-12				
Chlorobenzene	103	100	87-111	83-115	2	0-7				
1,2-Dibromoethane	107	106	80-120	73-127	1	0-20				
1,2-Dichlorobenzene	101	101	79-115	73-121	0	0-8				
1,1-Dichloroethene	102	103	73-121	65-129	2	0-12				
Ethylbenzene	107	105	80-120	73-127	2	0-20				
Toluene	101	100	78-114	72-120	1	0-7				
Trichloroethene	102	100	84-114	79-119	2	0-8				
Vinyl Chloride	90	91	63-129	52-140	1	0-15				
Methyl-t-Butyl Ether (MTBE)	103	105	77-125	69-133	3	0-11				
Tert-Butyl Alcohol (TBA)	93	102	47-137	32-152	9	0-27				
Diisopropyl Ether (DIPE)	114	113	76-130	67-139	1	0-8				
Ethyl-t-Butyl Ether (ETBE)	112	112	76-124	68-132	1	0-12				
Tert-Amyl-Methyl Ether (TAME)	109	110	82-118	76-124	1	0-11				
Ethanol	112	106	59-131	47-143	5	0-21				
ТРРН	88	88	65-135	53-147	0	0-30				

Total number of LCS compounds : 17 Total number of ME compounds : 0 Total number of ME compounds allowed : 1 LCS ME CL validation result : Pass

~ M

RPD - Relative Percent Difference, CL - Control Limit



MM



Work Order Number: 09-02-0951

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
А	Result is the average of all dilutions, as defined by the method.
В	Analyte was present in the associated method blank.
С	Analyte presence was not confirmed on primary column.
Е	Concentration exceeds the calibration range.
Н	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
Ν	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
Х	% Recovery and/or RPD out-of-range.

Z Analyte presence was not confirmed by second column or GC/MS analysis.

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			Page 27 of 27
Calecience · WORK ORDER	r #: <b>09-</b>	02=	0951
Epvironmental			
Laboratories, Inc. SAMPLE RECEIPT	FOR	V Coo	ler <u> </u> of <u> </u>
CLIENT: CRA	ł	DATE: <u>0</u>	2/10/09
TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)		~	
Temperature <u>2.3</u> °C - 0.2 °C (CF) = <u>2.1</u>	_°C 🛛	Blank [	<b>Sample</b>
□ Sample(s) outside temperature criteria (PM/APM contacted by:	).		
□ Sample(s) outside temperature criteria but received on ice/chilled o	on same day	of sampling.	
☐ Received at ambient temperature, placed on ice for transp	ort by Cour	ier.	
Ambient Temperature:	🗆 PCBs On	ly	Initial:
CUSTODY SEALS INTACT:			
□ Cooler □ □ No (Not Intact) Ⅳ Not	t Present	□ N/A	Initial: <u></u>
□ Sample □ □ No (Not Intact) ⊅ Not	t Present		Initial: <u>YC</u>
SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	Ø		
COC document(s) received complete	🗹		
Sampler's name indicated on COC	🗹		
Sample container label(s) consistent with COC	Z		
Sample container(s) intact and good condition	🗹		
Correct containers and volume for analyses requested	. ø		
Analyses received within holding time	. 🗹		
Proper preservation noted on COC or sample container	. 🗹		
Volatile analysis container(s) free of headspace	ø		
Tedlar bag(s) free of condensation	. 🗆		
CONTAINER TYPE:			/
Solid: □4ozCGJ □8ozCGJ □16ozCGJ ØSleeve □EnCore	es® ⊟Terr	aCores®	□
Water: □VOA ØVOAh □VOAna₂ □125AGB □125AGB	h □125AG	Bpo₄ □1A	GB 1AGBna <sub>2</sub>
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□250PBn □125PB □125PBznna □100PBsterile □100PB	na₂ □	□	
Air: □Tedlar® □Summa® □		Checked/Lat	eled by: YL
Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle		Revi	ewed by: W25C
Preservative: n:HUL n:HNU <sub>3</sub> na <sub>2</sub> :Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> na:NaOH po <sub>4</sub> :H <sub>3</sub> PO <sub>4</sub> s:H <sub>2</sub> SO <sub>4</sub> z	znna:ZnAc <sub>2</sub> +NaC	DH Sca	nned by: <u>16</u>

SOP T100\_090 (12/10/08)

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