



**CONESTOGA-ROVERS  
& ASSOCIATES**

5900 Hollis Street, Suite A  
Emeryville, California 94608  
Telephone: (510) 420-0700 Fax: (510) 420-9170  
www.CRAworld.com

**TRANSMITTAL**

DATE: February 11, 2010 REFERENCE NO.: 240472  
PROJECT NAME: 105 Fifth Street, Oakland  
TO: Jerry Wickham  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**RECEIVED**  
8:51 am, Feb 16, 2010  
Alameda County  
Environmental Health

Please find enclosed:  Draft  Final  
 Originals  Other  
 Prints  
Sent via:  Mail  Same Day Courier  
 Overnight Courier  Other GeoTracker and Alameda County FTP uploads

QUANTITY	DESCRIPTION
1	Soil Vapor Sampling Report

As Requested  For Review and Comment  
 For Your Use

**COMMENTS:**  
If you have any questions regarding the content of this document, please contact Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810  
Arthur R. and Mary A. Hansen, 820 Loyola Drive, Los Altos, CA 94024

Completed by: Peter Schaefer Signed: *Peter Schaefer*

Filing: Correspondence File



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

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 [denis.l.brown@shell.com](mailto:denis.l.brown@shell.com)

Re: Shell-branded Service Station  
105 Fifth Street  
Oakland, California  
SAP Code 135700  
Incident No. 98995757  
ACEH Case No. RO0000487

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,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is written over a horizontal line.

Denis L. Brown  
Project Manager



## SOIL VAPOR SAMPLING REPORT

SHELL-BRANDED SERVICE STATION  
105 FIFTH STREET  
OAKLAND, CALIFORNIA

SAP CODE           135700  
INCIDENT NO.      98995757  
AGENCY NO.        RO0000487

**FEBRUARY 11, 2010**  
**REF. NO. 240472 (7)**

This report is printed on recycled paper.

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

5900 Hollis Street, Suite A  
Emeryville, California  
U.S.A. 94608

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TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION.....	1
2.0 EXECUTIVE SUMMARY.....	1
3.0 SAMPLING ACTIVITIES.....	1
3.1 PERSONNEL PRESENT.....	1
3.2 SAMPLING DATE.....	2
3.3 SOIL VAPOR SAMPLING.....	2
4.0 FINDINGS.....	2
4.1 SOIL VAPOR.....	2
4.2 LEAK TESTING.....	3
5.0 CONCLUSIONS AND RECOMMENDATIONS.....	3

LIST OF FIGURES  
(Following Text)

- FIGURE 1 VICINITY MAP  
FIGURE 2 SOIL VAPOR DATA MAP

LIST OF TABLES  
(Following Text)

- TABLE 1 HISTORICAL SOIL VAPOR ANALYTICAL DATA

LIST OF APPENDICES

- APPENDIX A LABORATORY ANALYTICAL REPORT

## 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 soil vapor probe re-sampling results. CRA recommend re-sampling soil vapor probes SVP-1 and SVP-3 based on initial sampling results (from August 25, 2009) presented in our September 29, 2009 *Soil Vapor Probe Installation and Sampling Report*. CRA followed the sampling and analysis protocols presented in our September 2009 report.

The site is an active Shell-branded service station located on the western corner of Fifth Street and Oak Street in Oakland, California (Figure 1). Currently, the site layout consists of a kiosk, four underground storage tanks (USTs), and two dispenser islands (Figure 2). The area surrounding the site is of mixed commercial and residential use.

A summary of previous work performed at the site and additional background information is contained in CRA's March 25, 2009 *Soil Vapor Probe Installation and Soil Vapor Sampling Work Plan* and is not repeated herein.

## 2.0 EXECUTIVE SUMMARY

CRA re-sampled soil vapor probes SVP-1 and SVP-3 based on initial sampling results from August 2009.

- Soil vapor samples collected on October 1, 2009 contained up to 22,000  $\mu\text{g}/\text{m}^3$  benzene (SVP-3) and 66,000  $\mu\text{g}/\text{m}^3$  ethylbenzene (SVP-3).
- Toluene and xylenes were not detected.
- CRA recommends installing and sampling a soil vapor probe (SVP-6) between SVP-3 and the kiosk to evaluate the potential for benzene and ethylbenzene in soil vapor to impact indoor air. In addition, CRA recommends re-sampling soil vapor probe SVP-3 when SVP-6 is sampled to assess horizontal attenuation.

## 3.0 SAMPLING ACTIVITIES

### 3.1 PERSONNEL PRESENT

CRA staff geologist Erin Reinhart-Koylu sampled soil vapor probes SVP-1 and SVP-3 working under the supervision of California Professional Geologist Peter Schaefer.

### 3.2 SAMPLING DATE

October 1, 2009.

### 3.3 SOIL VAPOR SAMPLING

Prior to sampling, CRA purged at least three tubing volumes of air from each vapor probe using a vacuum pump. Immediately after purging, a soil vapor sample was collected using a laboratory-supplied Tedlar® bag. During sampling, the Teflon® tubing for each vapor probe was connected to a lung box containing the Tedlar® bag, and the lung box chamber was connected to the vacuum pump. The sample was then drawn into the Tedlar® bag by reducing the pressure in the lung box with the vacuum pump. Each sample was labeled, documented on a chain-of-custody, and submitted to Calscience Environmental Laboratories, Inc. of Garden Grove, California for analysis within 72 hours.

To check the system for leaks, a containment unit (or shroud) was placed to cover the soil gas probe surface casing and sampling manifold. Prior to soil gas probe purging, helium was introduced into the containment unit to obtain a minimum 50 percent helium content level. The helium content within the containment unit was confirmed using a helium meter. The helium meter readings are presented in Section 4.2. All samples were analyzed by the laboratory for helium, and CRA presents the results in Section 4.2 and on Table 1.

## 4.0 FINDINGS

### 4.1 SOIL VAPOR

Soil vapor samples collected on October 1, 2009 contained up to 22,000 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) benzene (SVP-3) and 66,000  $\mu\text{g}/\text{m}^3$  ethylbenzene (SVP-3). Toluene and xylenes were not detected.

Table 1 summarizes the soil vapor analytical data. Benzene, toluene, ethylbenzene, and xylenes (BTEX) results are shown on Figure 2, and the laboratory analytical report is presented in Appendix A.

## 4.2 LEAK TESTING

Leak testing was performed as described above, and helium was not detected in either of the samples. As seen in the following table, the reporting limit for helium (0.0100 percent by volume [%v]) is below 10 percent of the concentration detected in the shroud, and the samples are considered valid.

<i>Probe ID</i>	<i>Helium detected in sample (%v)</i>	<i>Helium detected in shroud (%v)</i>	<i>Maximum acceptable helium concentration in sample (%v)</i>
SVP-1	<0.0100	88	8.8
SVP-3	<0.0100	80	8.0

The laboratory analytical report for helium is presented in Appendix A, and CRA includes the results on Table 1.

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

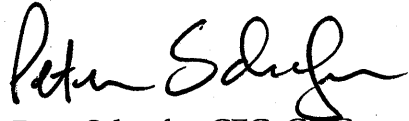
Benzene and ethylbenzene concentrations in the soil vapor samples from probes SVP-1 and SVP-3 exceeded Tier 1 ESLs. Toluene and xylenes were not detected in either sample.

Based on the benzene and ethylbenzene results from SVP-1 and SVP-3, CRA recommends installing and sampling a soil vapor probe (SVP-6) between SVP-3 and the kiosk to evaluate the potential for benzene in soil vapor to impact indoor air. In addition, CRA recommends re-sampling soil vapor probe SVP-3 when SVP-6 is sampled to assess horizontal attenuation.

The proposed probe (SVP-6) will be screened at 3 and 5 feet below grade and the proposed location is shown on Figure 2. Soil vapor samples from proposed soil vapor probe SVP-6 and existing probe SVP-3 will be collected in Tedlar® bags and analyzed for BTEX by EPA Method 8260B and for oxygen, carbon dioxide, methane, and helium by ASTM D Method 1946 (M).



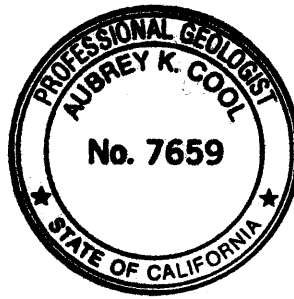
All of Which is Respectfully Submitted,  
CONESTOGA-ROVERS & ASSOCIATES



Peter Schaefer, CEG, CHG



Aubrey K. Cool, PG



FIGURES



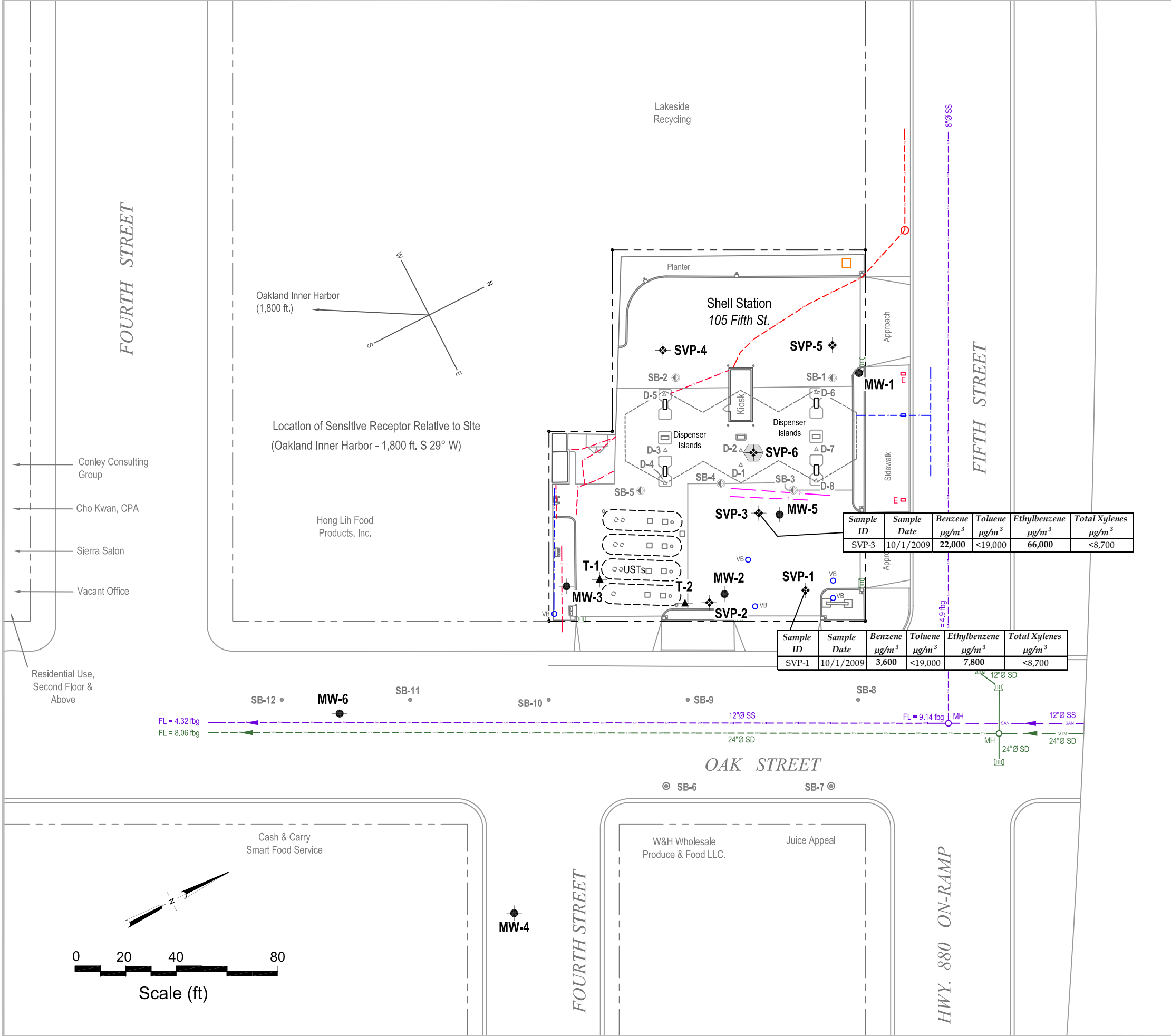
**Shell-branded Service Station**  
 105 Fifth Street  
 Oakland, California



**CONESTOGA-ROVERS  
 & ASSOCIATES**

**Vicinity Map**

I:\Shell\IG-chars\2404--\240472-Oakland 105 Fifth\240472-FIGURES\240472 SOIL VAPOR DATA 10-1-09.DWG



### EXPLANATION

- SVP-6** Proposed soil vapor probe location
- SVP-1** Soil vapor probe location (8/09)
- MW-1** Monitoring well location
- T-1** Tank backfill well location
- SB-8** Soil boring location (3/02)
- SB-6** Soil boring location (2/01)
- SB-1** Soil boring location (7/98)
- D-1** Soil sample location

- Overhead electrical line (OE)
- Electrical line (E)
- Telecommunication line (T)
- Unknown utility line
- Water line (W)
- Storm drain line (STM)
- Sanitary sewer line (SAN)

- Flow direction
- MH Manhole
- VB Vault Box
- Storm drain inlet
- fbg Feet below grade

**Note:** All utility locations are approximate

Sample ID	Sample Date	Benzene $\mu\text{g}/\text{m}^3$	Toluene $\mu\text{g}/\text{m}^3$	Ethylbenzene $\mu\text{g}/\text{m}^3$	Total Xylenes $\mu\text{g}/\text{m}^3$
SVP-3	10/1/2009	22,000	<19,000	66,000	<8,700

Sample ID	Sample Date	Benzene $\mu\text{g}/\text{m}^3$	Toluene $\mu\text{g}/\text{m}^3$	Ethylbenzene $\mu\text{g}/\text{m}^3$	Total Xylenes $\mu\text{g}/\text{m}^3$
SVP-1	10/1/2009	3,600	<19,000	7,800	<8,700

**Note:** Soil vapor sample ID and date and concentrations, in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )

**Note:** <X = Not detected at laboratory reporting limit X



FIGURE  
**2**

TABLE

**HISTORICAL SOIL VAPOR ANALYTICAL DATA  
SHELL-BRANDED SERVICE STATION  
105 5TH STREET  
OAKLAND, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Total Xylenes</i>	<i>Helium (%v)</i>
SVP-1	8/25/2009	<b>7,200</b>	<1,500	<b>15,000</b>	<6,900	<0.0100
SVP-1	10/1/2009	<b>3,600</b>	<19,000	<b>7,800</b>	<8,700	<0.0100
SVP-2	8/25/2009	<3.2	24	<4.3	<17	<0.0100
SVP-3	8/25/2009	<b>20,000</b>	1,200	<b>61,000</b>	<5,200	<0.0100
SVP-3	10/1/2009	<b>22,000</b>	<19,000	<b>66,000</b>	<8,700	<0.0100
SVP-4	8/25/2009	9.0	24	50	<17	<0.0100
SVP-5	8/25/2009	280	21	1,100	35	<0.0100
<b>ESLs <sup>a</sup></b>		<b>280</b>	<b>180,000</b>	<b>3,300</b>	<b>58,000</b>	<b>---</b>

**Notes:**

All results in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) unless otherwise indicated.  
Benzene, toluene, ethylbenzene, and xylenes by Modified EPA Method TO-15M  
Helium analyzed by ASTM D-1946 (M)

%v = Percentage by volume

<x = Not detected at reporting limit x

ESL = Environmental screening level

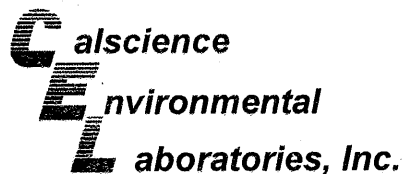
--- = No applicable ESL

Results in **bold** exceed environmental screening level

a = San Francisco Bay Regional Water Quality Control Board (RWQCB) shallow soil gas screening level for evaluation of potential vapor intrusion concerns - commercial/industrial land use from RWQCB's *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 (Revised May 2008).

APPENDIX A

LABORATORY ANALYTICAL REPORT



October 13, 2009

Peter Schaefer  
Conestoga-Rovers & Associates  
5900 Hollis Street, Suite A  
Emeryville, CA 94608-2008

Subject: **Calscience Work Order No.: 09-10-0123**  
**Client Reference: 105 Fifth Street, Oakland, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/2/2009 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.

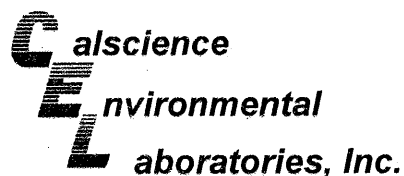
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Philip Samelle for".

Calscience Environmental  
Laboratories, Inc.  
Xuan H. Dang  
Project Manager





## Analytical Report

Conestoga-Rovers & Associates  
5900 Hollis Street, Suite A  
Emeryville, CA 94608-2008

Date Received: 10/02/09  
Work Order No: 09-10-0123  
Preparation: N/A  
Method: ASTM D-1946 (M)

Project: 105 Fifth Street, Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-1	09-10-0123-1-A	10/01/09 12:45	Air	GC 55	N/A	10/02/09 00:00	091002L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

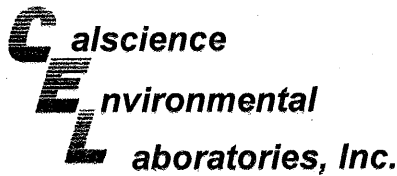
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-3	09-10-0123-2-A	10/01/09 13:07	Air	GC 55	N/A	10/02/09 00:00	091002L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-872-14	N/A	Air	GC 55	N/A	10/02/09 00:00	091002L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

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



Analytical Report



Conestoga-Rovers & Associates  
5900 Hollis Street, Suite A  
Emeryville, CA 94608-2008

Date Received: 10/02/09  
Work Order No: 09-10-0123  
Preparation: N/A  
Method: EPA TO-15M  
Units: ug/m3

Project: 105 Fifth Street, Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-1	09-10-0123-1-A	10/01/09 12:45	Air	GC/MS II	N/A	10/02/09 21:34	091002L01

Comment(s): -The method has been modified to use Tedlar bags instead of Summa Canisters.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	3600	1600	1000		Ethylbenzene	7800	2200	1000	
Toluene	ND	19000	1000		Xylenes (total)	ND	8700	1000	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
1,4-Bromofluorobenzene	105	57-129			1,2-Dichloroethane-d4	81	47-137		
Toluene-d8	78	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-3	09-10-0123-2-A	10/01/09 13:07	Air	GC/MS II	N/A	10/02/09 17:00	091002L01

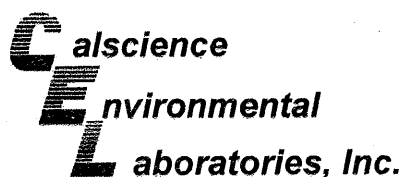
Comment(s): -The method has been modified to use Tedlar bags instead of Summa Canisters.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	22000	1600	1000		Ethylbenzene	66000	2200	1000	
Toluene	ND	19000	1000		Xylenes (total)	ND	8700	1000	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
1,4-Bromofluorobenzene	91	57-129			1,2-Dichloroethane-d4	71	47-137		
Toluene-d8	76	78-156		2					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-983-56	N/A	Air	GC/MS II	N/A	10/02/09 12:30	091002L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Ethylbenzene	ND	2.2	1	
Toluene	ND	19	1		Xylenes (total)	ND	8.7	1	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
1,4-Bromofluorobenzene	94	57-129			1,2-Dichloroethane-d4	81	47-137		
Toluene-d8	89	78-156							

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



Quality Control - LCS/LCS Duplicate



Conestoga-Rovers & Associates  
 5900 Hollis Street, Suite A  
 Emeryville, CA 94608-2008

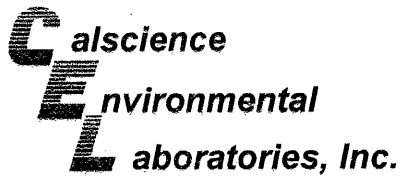
Date Received: N/A  
 Work Order No: 09-10-0123  
 Preparation: N/A  
 Method: ASTM D-1946 (M)

Project: 105 Fifth Street, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-14	Air	GC 55	N/A	10/02/09	091002L01

Parameter	LCS Conc	LCSD Conc	RPD	RPD CL	Qualifiers
Helium	0.9850	0.9756	1	0-30	
Hydrogen	0.9965	0.9905	1	0-30	

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Conestoga-Rovers & Associates  
5900 Hollis Street, Suite A  
Emeryville, CA 94608-2008

Date Received: N/A  
Work Order No: 09-10-0123  
Preparation: N/A  
Method: EPA TO-15M

Project: 105 Fifth Street, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-983-56	Air	GC/MS II	N/A	10/02/09	091002L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	116	122	60-156	5	0-40	
Toluene	126	128	56-146	2	0-43	
Ethylbenzene	122	123	52-154	0	0-38	
p/m-Xylene	105	106	42-156	1	0-41	
o-Xylene	119	120	52-148	1	0-38	

RPD - Relative Percent Difference, CL - Control Limit



Work Order Number: 09-10-0123

<u>Qualifier</u>	<u>Definition</u>
*	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.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	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.
N	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.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

LAB (LOCATION)

- CALSCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input checked="" type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> NOT/NA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> NOT/NA SDB/CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: Peter Schaefer

INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 5 7

DATE: 10/1/2009

PO # \_\_\_\_\_ SAP # \_\_\_\_\_

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 105 Fifth St., Oakland

State: CA GLOBAL ID NO: TO600102116

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO Name, Company, Office Location: Brenda Carter, CRA, Emeryville

PHONE NO: 510-420-3343 FAX: shelledf@craworld.com

CONSULTANT PROJECT NO: 249472

PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer

SAMPLER NAME(S) (Print): Erin Reinhart-Koylu

LAB USE ONLY: 09 09 0123

TELEPHONE: 510-420-3319 FAX: 510-420-9170 EMAIL: pschaefer@craworld.com

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS: C<sub>10</sub>/2/09

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

Must be analysis within 72 hours.

please report results in µg/m3

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

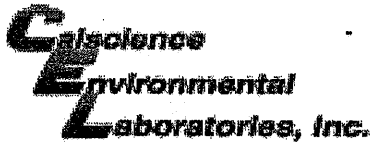
RECEIPT VERIFICATION REQUESTED

TEMPERATURE ON RECEIPT: \_\_\_\_\_ °C

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH - Purgable (8260B)	TPHg (8260B)	BTEX (8260B)	Mellum (ASTM D 1946 M)	TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes
			DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER							
1	SVP-1	10/1/09	12:45	Vapor					X	1		X	X				
2	SVP-3	10/1/09	13:07	Vapor					X	1		X	X				

Refurnished by: (Signature) <i>Carina Rodriguez</i>	Received by: (Signature) <i>[Signature]</i> CEL	Date: 10-1-09	Time: 1640
Refurnished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date:	Time:
Refurnished by: (Signature) <i>[Signature]</i> #512748716	Received by: (Signature) <i>Prey R. cel</i>	Date: 10/02/09	Time: 10:00

05/2009 Revision



WORK ORDER #: 09-10-0123

**SAMPLE RECEIPT FORM**

Box  
Cooler 1 of 1

CLIENT: ERA

DATE: 10 / 02 / 09

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature \_\_\_\_\_ °C - 0.2°C (CF) = \_\_\_\_\_ °C     Blank     Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature:  Air     Filter     Metals Only     PCBs Only    Initial: PS

**CUSTODY SEALS INTACT:**

Cooler     \_\_\_\_\_     No (Not Intact)     Not Present     N/A    Initial: PS

Sample     \_\_\_\_\_     No (Not Intact)     Not Present    Initial: PS

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**CONTAINER TYPE:**

Solid:  4ozCGJ     8ozCGJ     16ozCGJ     Sleeve     EnCores®     TerraCores®     \_\_\_\_\_

Water:  VOA     VOAh     VOAna<sub>2</sub>     125AGB     125AGBh     125AGBp     1AGB     1AGBna<sub>2</sub>     1AGBs

500AGB     500AGJ     500AGJs     250AGB     250CGB     250CGBs     1PB     500PB     500PBna

250PB     250PBn     125PB     125PBzanna     100PJ     100PJna<sub>2</sub>     \_\_\_\_\_     \_\_\_\_\_     \_\_\_\_\_

Air:  Tedlar®     Summa®    Other:  \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_    Checked by: PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop    Reviewed by: YK

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 p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> zanna: ZnAc<sub>2</sub>+NaOH f: Field-filtered    Scanned by: PS