CONESTOGA-ROVERS & ASSOCIATES

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

TRANSMITTAL

DATE: July 14, 2011

REFERENCE NO.: 240612

PROJECT NAME: 1784 150th Avenue, San Leandro

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

RECEIVED
11:43 am, Jul 18, 2011
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

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- ☐ Mail
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- ☐ Same Day Courier
- ☒ Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Soil Vapor Sampling Report

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

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 (electronic copy)
Bansal, Inc., 1784 150th Avenue, San Leandro, CA 94578-1826

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

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

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

Re: Shell-branded Service Station
1784 150th Avenue
San Leandro, California
SAP Code 136019
Incident No. 98996068
ACEH Case No. RO0000367

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
Senior Program Manager

SOIL VAPOR SAMPLING REPORT

SHELL-BRANDED SERVICE STATION
1784 150TH AVENUE
SAN LEANDRO, CALIFORNIA

SAP CODE	136019
INCIDENT NO.	98996068
AGENCY NO.	RO0000367

Prepared by:
Conestoga-Rovers & Associates

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

Office: (510) 420-0700
Fax: (510) 420-9170

web: http:\\www.CRAworld.com

JULY 14, 2011
REF. NO. 240612 (22)
This report is printed on recycled paper.

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EXECUTIVE SUMMARY

- On May 6, 2011, CRA sampled soil vapor probes SVP-1 through SVP-3, SVP-6, and SVP-7 for TPHg, BTEX, and MTBE.
- Soil vapor probes SVP-4 and SVP-5 could not be sampled on May 6, 2011 or on June 8, 2011 due to water in the sampling tubing.
- Soil vapor sample concentrations in all probes were below RWQCB ESLs for residential and commercial land use during the May 2011 sampling event.
- Based on these results, no further soil vapor monitoring of probes SVP-1 through SVP-3, SVP-6, and SVP-7 is warranted.
- CRA recommends conducting another sampling event from probes SVP-4 and SVP-5 later during the third quarter of 2011, when the soils may be drier.

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 monitoring event, as requested in Alameda County Environmental Health's (ACEH's) April 4, 2011 letter.

The site is an operating Shell-branded service station located at the southern corner of the 150th Avenue and Freedom Avenue intersection in San Leandro, California (Figure 1). The area surrounding the site is mixed commercial and residential. The site layout (Figure 2) includes a station building, two dispenser islands, and three fuel underground storage tanks (USTs). One waste oil UST was removed from the site on May 25, 2006.

A summary of previous work performed at the site and additional background information was submitted in CRA's January 31, 2011 *Air Sparge and Soil Vapor Extraction Well Installation and Pilot Test Report* and is not repeated herein.

2.0 SAMPLING ACTIVITIES

2.1 PERSONNEL PRESENT

CRA Staff Geologist Erin Swan sampled soil vapor probes SVP-1 through SVP-3, SVP-6, and SVP-7 under the supervision of California Professional Geologist Peter Schaefer.

2.2 SAMPLING DATE

May 6, 2011.

2.3 SOIL VAPOR SAMPLING

On May 6, 2011, CRA sampled soil vapor probes SVP-1 through SVP-3, SVP-6, and SVP-7 using a lung box and Tedlar® bags and attempted to sample probes SVP-4 and SVP-5. On June 8, 2011, CRA again attempted to sample probes SVP-4 and SVP-5. Approximately one liter of water was purged from each soil vapor probe during each event prior to abandoning the sampling effort.

Prior to sampling each probe, CRA purged at least three tubing volumes of air from the 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 the 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. The 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 reading is presented in Section 3.2. The sample was analyzed by the laboratory for helium, and CRA presents the results in Section 3.2 and on Table 1.

3.0 FINDINGS

3.1 SOIL VAPOR

The soil vapor samples collected from SVP-1 through SVP-3, SVP-6, and SVP-7 on May 6, 2011 contained up to 160 micrograms per cubic meter ($\mu g/m^3$) ethylbenzene and 220 $\mu g/m^3$ xylenes. No other constituents of concern were detected.

Table 1 summarizes historical soil vapor analytical data. Total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, and total xylenes results are shown on Figure 2, and the laboratory analytical report is presented in Appendix A.

3.2 LEAK TESTING

CRA performed leak testing as described above, and up to 0.0259 percent by volume (%*v*) helium was detected in the samples. As seen in the following table, the detections are below 10 percent of the concentration detected in the shroud, and the samples are considered valid.

Probe ID	*Helium concentration in sample (%v)*	*Minimum Helium detected in shroud (%v)*	*Maximum acceptable helium concentration in sample (%v)*
SVP-1	0.0191	51	5.1
SVP-2	<0.0100	58	5.8
SVP-3	<0.0100	55	5.5
SVP-6	0.0259	50	5.0
SVP-7	<0.0100	58	5.8

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

4.0 CONCLUSIONS AND RECOMMENDATIONS

Soil vapor sample concentrations in SVP-1 through SVP-3, SVP-6, and SVP-7 were below San Francisco Bay Regional Water Quality Control Board environmental screening levels[1] for residential and commercial land use during the May 2011 sampling event. Based on these results, no further soil vapor monitoring of these probes is warranted.

CRA recommends conducting another sampling event from SVP-4 and SVP-5 later during third quarter of 2011, when the soils may be drier.

1 *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater,* California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]

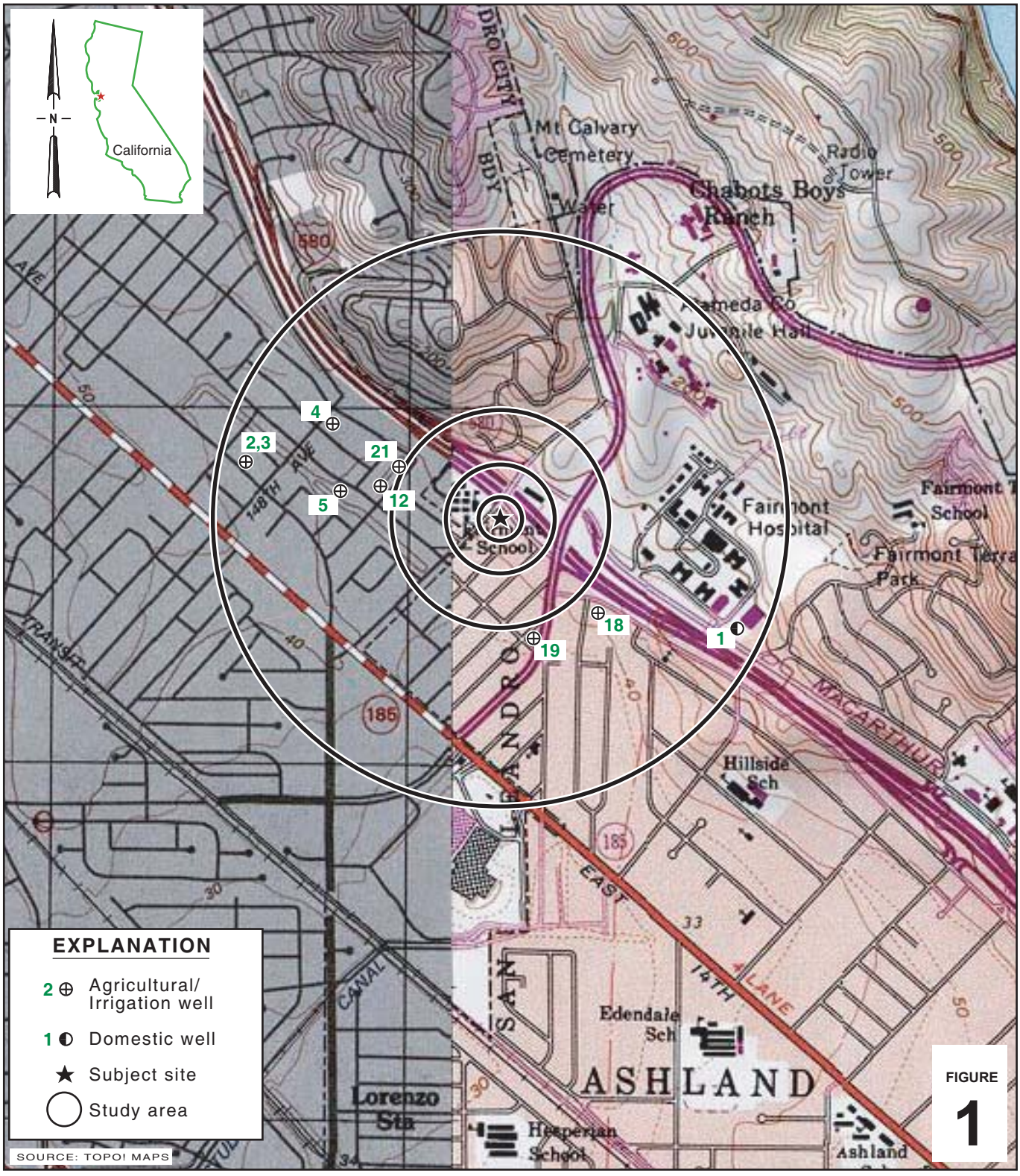
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG

FIGURES

11/03/08



I:\Shell\6-chars\2406--\240612-San Leandro 1784 150th\240612-FIGURES\240612 VICINITY.AI

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Shell-branded Service Station

1784 150th Avenue

San Leandro, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

07/13/2011

Soil Vapor Data Map

May 6, 2011

EXPLANATION

- SVE-1 — Soil vapor extraction well location
- SVP-6 — Soil vapor probe location
- AS-1 — Air sparge well location
- P-1A — Piezometer location
- P-1B — Deeper piezometer location
- EW-1 — Extraction well location
- MW-3 — Monitoring well location
- MW-1B — Deeper monitoring well location
- MW-1 — Destroyed well location
- B-1 — Soil boring location (9/14/2007)
- CPT-1 — CPT location (8/29-30/2007)
- SVP-1 — Soil vapor probe location (8/28/2007 & 10/1/2010)
- Dispenser number
- Product piping (P)
- Water line (W)

Sample ID	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
SVP-1	<7,000	<16	<19	68	99

Notes:
Soil sample ID and concentrations in micrograms per cubic meter
TPHg = Total petroleum hydrocarbons as gasoline
<X = Not detected at reporting limit X

PORTOFINO CIRCLE
PORTOFINO DRIVE
150TH AVENUE
FREEDOM AVENUE
I-580
Brick Sound Wall
Residential
Residential
Residential
Residential (Townhouses)
Residential (Townhouses)
Storm Drain
Manhole (MH, typ.)
Shell Station
1784 150th Ave.
Former Dispenser Island
Dispenser Islands
Station Building
USTs
Former W/O UST
Air Comp.
Storage
Parking Lot
Denny's Restaurant
15015 Freedom Ave.
(Shared Driveway)

SB-12, BH-5, SB-13, MW-9, SB-25/MW-13, SB-11, MW-7, SVP-5, SB-24/MW-12, MW-4, MW-8, MW-10, CPT-3, MW-2B, P-4B, P-4A, AS-1, MW-2, P-3A, CPT-2, P-3B, MW-11, EW-2, SVP-1, SVE-1, SVP-6, SVP-7, SVP-2, EW-1, CPT-1, P-1B, P-1A, MW-1, P-2B, SVP-3, P-2A, MW-1B, MW-1A, B-1, SVP-4, SB-23, MW-3, SB-18, BH-7, MW-5, SB-17, CPT-5, CPT-6, MW-6

Sample ID	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
SVP-6	<7,000	<16	<19	140	200

Sample ID	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
SVP-7	<7,000	<16	<19	110	170

Sample ID	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
SVP-2	<7,000	<16	<19	160	220

Sample ID	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
SVP-3	<7,000	<16	<19	49	59

N

0 20 40 80
Scale (ft)

FIGURE
2

Shell-branded Service Station
1784 150th Avenue
San Leandro, California

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\2406--\240612-San Leandro 1784 150th\240612-FIGURES\240612 SITE PLAN (F2, SOIL VAPOR DATA 5-11).DWG

TABLE

TABLE 1

HISTORICAL SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
1784 150TH AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	*Date*	*TPHg* ($\mu g/m^3$)	*Benzene* ($\mu g/m^3$)	*Toluene* ($\mu g/m^3$)	*Ethylbenzene* ($\mu g/m^3$)	*Total Xylenes* ($\mu g/m^3$)	*MTBE* ($\mu g/m^3$)	*Butane*[a] ($\mu g/m^3$)	*Isobutane*[a] ($\mu g/m^3$)	*Propane*[a] ($\mu g/m^3$)	*Methane* (%v)	*Carbon Dioxide* (%v)	*Oxygen + Argon* (%v)	*Helium* (%v)
SVP-1	9/25/2007	**12,000**	<17	7,000	120	300	<19	67	ND	ND	---	---	---	---
SVP-1	3/5/2008	<17,000	8.2	1,300	41	95	<10	ND	70.12	ND	---	---	---	---
SVP-1 DUP[c]	3/5/2008	<18,000	7.9	400	32	65	<11	ND	62.99	ND	---	---	---	---
SVP-1	5/20/2008	620	<3.9	<4.6	<5.2	<5.2	<4.4	ND	ND	ND	---	---	---	---
SVP-1	9/17/2008	<270	<4.2	5.7	<5.7	<5.7	<4.8	ND	ND	ND	---	---	---	---
SVP-1	1/17/2009	<9,800	<2.7	<3.2	<3.7	<15	<12	<20	<20	<46	---	---	---	---
SVP-1	5/6/2011	<7,000	<16	<19	68	99	<36	---	---	---	<0.500	1.61	12.3	0.0191
SVP-2	9/25/2007	760	11	90	14	56	24	ND	ND	ND	---	---	---	---
SVP-2	3/5/2008	<19,000	<2.7	<3.1	<3.6	<7.3	<12	ND	ND	ND	---	---	---	---
SVP-2	5/20/2008	830	<6.4	<7.6	<8.8	<8.8	<7.3	ND	ND	ND	---	---	---	---
SVP-2	9/17/2008	<240	<3.8	<4.5	<5.2	<5.2	<4.3	ND	ND	ND	---	---	---	---
SVP-2 DUP[c]	9/17/2008	<230	<3.6	<4.3	<5.0	<5.0	<4.1	ND	ND	ND	---	---	---	---
SVP-2	1/17/2009	<9,400	<2.6	<3.1	<3.6	<14	<12	<19	25	<44	---	---	---	---
SVP-2	5/6/2011	<7,000	<16	<19	160	220	<36	---	---	---	<0.500	6.73	12.7	<0.0100
SVP-3	9/25/2007	300	<4.4	<5.2	<6.0	<6.0	<5.0	ND	ND	ND	---	---	---	---
SVP-3 DUP[c]	9/25/2007	<260	<4.1	<4.9	<5.6	<5.6	<4.6	ND	ND	ND	---	---	---	---
SVP-3	3/5/2008	<20,000	3.9	32	7.8	38	13	ND	ND	ND	---	---	---	---
SVP-3	5/20/2008	380	<3.9	<4.6	<5.4	<5.4	<4.4	ND	ND	ND	---	---	---	---
SVP-3	9/17/2008	<340	<5.4	<6.3	<7.3	<7.3	<6.1	ND	ND	ND	---	---	---	---
SVP-3	1/17/2009	<9,200	<2.6	<3.0	<3.5	<14	<12	<19	60	<43	---	---	---	---
SVP-3	5/6/2011	<7,000	<16	<19	49	59	<36	---	---	---	<0.500	2.40	19.7	<0.0100
SVP-4	9/25/2007	**12,000**	<3.9	13	6.3	31	<4.4	713	ND	ND	---	---	---	---
SVP-5	9/25/2007	**70,000**	<56	<66	<76	<76	<63	ND	ND	ND	---	---	---	---
SVP-5	3/5/2008	<17,000	<2.3	2.7	<3.1	<6.3	<10	ND	22.11	ND	---	---	---	---
SVP-5	9/17/2008	**280,000**	**260**	780	**14,000**	**48,000**	290	8,600[b]	880[b]	ND	---	---	---	---
SVP-5 (200 ml/min flow)	1/17/2009	<9,100	<2.5	<3.0	<3.4	<14	36	<19	<19	<43	---	---	---	---
SVP-5 (100 ml/min flow)	1/17/2009	<9,100	<2.5	<3.0	<3.4	<14	51	<19	<19	<43	---	---	---	---
SVP-5 DUP[c] (200 ml/min flow)	1/17/2009	<9,000	<2.5	<3.0	<3.4	<14	59	<19	<19	<42	---	---	---	---
SVP-5	10/1/2009	---	4.6	<19	17	<8.7	---	---	---	---	---	---	---	<0.0100

TABLE 1

HISTORICAL SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
1784 150TH AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	*Date*	*TPHg* ($\mu g/m^3$)	*Benzene* ($\mu g/m^3$)	*Toluene* ($\mu g/m^3$)	*Ethylbenzene* ($\mu g/m^3$)	*Total Xylenes* ($\mu g/m^3$)	*MTBE* ($\mu g/m^3$)	*Butane*[a] ($\mu g/m^3$)	*Isobutane*[a] ($\mu g/m^3$)	*Propane*[a] ($\mu g/m^3$)	*Methane* (%v)	*Carbon Dioxide* (%v)	*Oxygen + Argon* (%v)	*Helium* (%v)
SVP-6	11/2/2010	<7,000	<16	<19	<22	<43	---	---	---	---	<0.500	1.45	20.3	<0.0100
SVP-6	5/6/2011	<7,000	<16	<19	140	200	<36	---	---	---	<0.500	2.58	6.21	0.0259
SVP-7	11/2/2010	<7,000	<16	<19	<22	<43	---	---	---	---	<0.500	<0.500	21.1	<0.0100
SVP-7	5/6/2011	<7,000	<16	<19	110	170	<36	---	---	---	<0.500	0.656	21.2	<0.0100
Residential Land Use ESL[d]:		**10,000**	**84**	**63,000**	**980**	**21,000**	**9,400**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Commercial/Industrial Land Use ESL[d]:		**29,000**	**280**	**180,000**	**3,300**	**58,000**	**31,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Notes:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method TO-3 GC/FID
Benzene, toluene, ethylbenzene and total xylenes by modified EPA Method TO-15 GC/FID Full Scan
MTBE = Methyl tertiary-butyl ether by modified EPA Method TO-15 GC/FID Full Scan
Butane, isobutane, and propane by modified EPA Method TO-15 GC/FID Full Scan
Methane, carbon dioxide, and oxygen+argon analyzed by ASTM D-1946
Helium analyzed by ASTM D-1946(M)
$\mu g/m^3$ = Micrograms per cubic meter
%v = Percentage by volume
ND = Not detected; no reporting limit provided.
--- = Not analyzed
ESL = Environmental screening level
NA = No applicable ESL
Results in **bold** equal or exceed ESL.

a = Detected quantities estimated by laboratory for 2007 and 2008 samples.
b = The identification is based on presumptive evidence; estimated value
c = Field duplicate
d = San Francisco Bay Regional Water Quality Control Board ESLs for shallow soil gas (Table E of 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

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
LABORATORY REPORT

Calscience
Environmental
Laboratories, Inc.

May 13, 2011

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

Subject: **Calscience Work Order No.: 11-05-0499**
Client Reference: 1784 150th Ave., San Leandro, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/7/2011 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. 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,

Calscience Environmental
Laboratories, Inc.
Xuan Dang
Project Manager

Case Narrative

Work Order # 11-05-0499

Modified EPA 8260 in Air

This method is used to determine the concentration of BTEX/Oxygenates/Naphthalene having a vapor pressure greater than 10^{-1} torr at 25°C at standard pressure in an air matrix. The method is similar to EPA TO-15 and uses air standards for calibration. Method specifics are listed in the table below. A known volume of sample is directed from the container (Summa® canister or Tedlar™ bag) through a solid multi-module (glass beads, tenex, cryofocuser) concentrator. Following concentration, the VOCs are thermally desorbed onto a gas chromatographic column for separation and then detected on a mass selective detector.

Comparison of CalscienceTO-15(Modified) versus EPA 8260 (Modified) in Air

Requirement	Calscience TO-15(M)	Calscience EPA 8260(M) in Air
BFB Acceptance Criteria	SW846 Protocol	SW846 Protocol
Initial Calibration	Allowable % RSD for each Target Analyte <= 30%, 10% of analytes allowed <=40%	Allowable % RSD for each Target Analyte <= 30%, 10% of analytes allowed <= 40%
Initial Calibration Verification (ICV) - Second Source Standard (LCS)	Analytes contained in the LCS standard evaluated against historical control limits for the LCS	BTEX and MTBE only - <= 30%D
Daily Calibration Verification (CCV)	**Full List Analysis:** Allowable % Difference for each CCC analyte is <= 30%	BTEX and MTBE only - <= 30%D
	Target List Analysis: Allowable % Difference for each target analytes is <= 30%	
Daily Calibration Verification (CCV) - Internal Standard Area Response	Allowable +/- 50% (Range: 50% to 150%)	Allowable +/- 50% (Range: 50% to 150%)
Method Blank, Laboratory Control Sample and Sample - Internal Standard Area Response	Allowable +/- 50% of the mean area response of most recent Calibration Verification (Range: 50% to 150%)	Allowable +/- 50% of the mean area response of the most recent Calibration Verification (Range: 50% to 150%)
Surrogates	1,4-Bromoflurobenzene, 1,2-Dichloroethane-d4 and Toluene-d8 - % Recoveries based upon historical control limits +/-3S	1,4-Bromoflurobenzene, 1,2-Dichloroethane-d4 and Toluene-d8 - % Recoveries based upon historical control limits +/-3S

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	05/07/11
5900 Hollis Street, Suite A		Work Order No:	11-05-0499
Emeryville, CA 94608-2008		Preparation:	N/A
		Method:	ASTM D-1946
		Units:	%v
Project: 1784 150th Ave., San Leandro, 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	11-05-0499-1-A	05/06/11 09:38	Air	GC 34	N/A	05/07/11 11:39	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	12.3	0.500	1	
Carbon Dioxide	1.61	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-2	11-05-0499-2-A	05/06/11 10:03	Air	GC 34	N/A	05/07/11 12:12	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	12.7	0.500	1	
Carbon Dioxide	6.73	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-3	11-05-0499-3-A	05/06/11 10:45	Air	GC 34	N/A	05/07/11 13:38	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	19.7	0.500	1	
Carbon Dioxide	2.40	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-6	11-05-0499-4-A	05/06/11 09:18	Air	GC 34	N/A	05/07/11 14:12	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	6.21	0.500	1	
Carbon Dioxide	2.58	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7	11-05-0499-5-A	05/06/11 10:24	Air	GC 34	N/A	05/07/11 14:48	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	21.2	0.500	1	
Carbon Dioxide	0.656	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-03-002-1,297	N/A	Air	GC 34	N/A	05/07/11 09:08	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	ND	0.500	1	
Carbon Dioxide	ND	0.500	1						

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/07/11
Work Order No: 11-05-0499
Preparation: N/A
Method: EPA TO-3M

Project: 1784 150th Ave., San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-1	11-05-0499-1-A	05/06/11 09:38	Air	GC 13	N/A	05/07/11 11:15	110507L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-2	11-05-0499-2-A	05/06/11 10:03	Air	GC 13	N/A	05/07/11 11:28	110507L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-3	11-05-0499-3-A	05/06/11 10:45	Air	GC 13	N/A	05/07/11 11:42	110507L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-6	11-05-0499-4-A	05/06/11 09:18	Air	GC 13	N/A	05/07/11 12:17	110507L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7	11-05-0499-5-A	05/06/11 10:24	Air	GC 13	N/A	05/07/11 12:03	110507L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	098-01-005-3,108	N/A	Air	GC 13	N/A	05/07/11 09:24	110507L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/07/11
Work Order No: 11-05-0499
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 1784 150th Ave., San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-1	11-05-0499-1-A	05/06/11 09:38	Air	GC 55	N/A	05/07/11 13:34	110507L01

Parameter	Result	RL	DF	Qual	Units
Helium	0.0191	0.0100	1		%v

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-2	11-05-0499-2-A	05/06/11 10:03	Air	GC 55	N/A	05/07/11 14:08	110507L01

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	11-05-0499-3-A	05/06/11 10:45	Air	GC 55	N/A	05/07/11 14:28	110507L01

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-6	11-05-0499-4-A	05/06/11 09:18	Air	GC 55	N/A	05/07/11 14:53	110507L01

Parameter	Result	RL	DF	Qual	Units
Helium	0.0259	0.0100	1		%v

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7	11-05-0499-5-A	05/06/11 10:24	Air	GC 55	N/A	05/07/11 15:13	110507L01

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	099-12-872-102	N/A	Air	GC 55	N/A	05/07/11 12:09	110507L01

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

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/07/11
Work Order No: 11-05-0499
Preparation: N/A
Method: EPA 8260B (M)
Units: ug/m3

Project: 1784 150th Ave., San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-1	11-05-0499-1-A	05/06/11 09:38	Air	GC/MS ZZ	N/A	05/07/11 17:23	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	99	43	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	36	1	
Ethylbenzene	68	22	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	104	47-156		1,2-Dichloroethane-d4	106	47-156	
Toluene-d8	96	47-156					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-2	11-05-0499-2-A	05/06/11 10:03	Air	GC/MS ZZ	N/A	05/07/11 18:11	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	220	43	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	36	1	
Ethylbenzene	160	22	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	105	47-156		1,2-Dichloroethane-d4	104	47-156	
Toluene-d8	94	47-156					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-3	11-05-0499-3-A	05/06/11 10:45	Air	GC/MS ZZ	N/A	05/07/11 18:59	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	59	43	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	36	1	
Ethylbenzene	49	22	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	103	47-156		1,2-Dichloroethane-d4	109	47-156	
Toluene-d8	94	47-156					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-6	11-05-0499-4-A	05/06/11 09:18	Air	GC/MS ZZ	N/A	05/07/11 19:49	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	200	43	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	36	1	
Ethylbenzene	140	22	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	104	47-156		1,2-Dichloroethane-d4	107	47-156	
Toluene-d8	93	47-156					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/07/11
Work Order No: 11-05-0499
Preparation: N/A
Method: EPA 8260B (M)
Units: ug/m3

Project: 1784 150th Ave., San Leandro, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7	11-05-0499-5-A	05/06/11 10:24	Air	GC/MS ZZ	N/A	05/07/11 20:37	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	170	43	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	36	1	
Ethylbenzene	110	22	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	103	47-156		1,2-Dichloroethane-d4	106	47-156	
Toluene-d8	96	47-156					

Method Blank	099-13-041-476	N/A	Air	GC/MS ZZ	N/A	05/07/11 13:49	110507L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Methyl-t-Butyl Ether (MTBE)	ND	36	1	
Ethylbenzene	ND	22	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	107	47-156		1,2-Dichloroethane-d4	112	47-156	
Toluene-d8	97	47-156					

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Conestoga-Rovers & Associates	Date Received: 05/07/11
5900 Hollis Street, Suite A	Work Order No: 11-05-0499
Emeryville, CA 94608-2008	Preparation: N/A
	Method: EPA TO-3M

Project: 1784 150th Ave., San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
11-05-0472-3	Air	GC 13	N/A	05/07/11	110507D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	ND	NA	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 11-05-0499
Emeryville, CA 94608-2008	Preparation: N/A
	Method: ASTM D-1946

Project: 1784 150th Ave., San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,297	Air	GC 34	N/A	05/07/11	110507L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Methane	102	101	80-120	1	0-30	
Carbon Dioxide	102	101	80-120	1	0-30	
Carbon Monoxide	102	101	80-120	1	0-30	
Oxygen + Argon	101	101	80-120	0	0-30	
Nitrogen	104	104	80-120	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 11-05-0499
Emeryville, CA 94608-2008	Preparation: N/A
	Method: ASTM D-1946 (M)

Project: 1784 150th Ave., San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-102	Air	GC 55	N/A	05/07/11	110507L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Helium	94	92	80-120	3	0-30	
Hydrogen	108	105	80-120	3	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 11-05-0499
Emeryville, CA 94608-2008	Preparation: N/A
	Method: EPA 8260B (M)

Project: 1784 150th Ave., San Leandro, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-041-476	Air	GC/MS ZZ	N/A	05/07/11	110507L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	104	60-156	1	0-40	
Toluene	102	103	56-146	0	0-43	
Ethylbenzene	101	103	52-154	3	0-38	
Xylenes (total)	100	103	52-148	3	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 11-05-0499

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 or PES/PESD 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 without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. 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.
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.
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. All QC results are reported on a wet weight basis.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
☐ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&CM | ☑ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER _____

Print Bill To Contact Name: Peter Schaefer-2400612
INCIDENT # (ENV SERVICES): 9 8 9 9 6 0 6 8 | ☐ CHECK IF NO INCIDENT # APPLIES
DATE: 5/6/11
PO #:
SAP #: 1 3 6 0 1 9
PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates
LOG CODE: CRAW
SITE ADDRESS: Street and City: 1784 150th Street, San Leandro
State: CA
GLOBAL ID NO.: TO600101230
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
E-MAIL: shell.em.edf@craworld.com
CONSULTANT PROJECT NO: 240612-95
PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer
TELEPHONE: 510-420-3319
FAX: 510-420-9170
E-MAIL: pschaefer@craworld.com
SAMPLER NAME(S) (Print): Erin Swan
LAB USE ONLY: 05-0499

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
Samples must be analized within 72 hours

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED

Please report results in µg/m3 for TO-3 & 8260, report results in % by volume for ASTM D 1946 & 1946 (M).

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPHg by (TO-3)	BTEX by (8260)	Oxygen, Carbon Dioxide, & Methane by ASTMd 1946	Helium by ATSM d 1946(M)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	SVP-1	5/6/11	9:38	Vapor						1	X	X	X	X	Tedlar Bag
2	SVP-2	"	10:03	Vapor						1	X	X	X	X	Tedlar Bag
3	SVP-3	"	10:45	Vapor						1	X	X	X	X	Tedlar Bag
	[redacted]														[redacted]
	[redacted]														[redacted]
4	SVP-6	"	9:18	Vapor							X	X	X	X	Tedlar Bag
5	SVP-7	"	10:24	Vapor							X	X	X	X	

Relinquished by: (Signature) Erin Swan	Received by: (Signature) CEL	Date: 5/6/11	Time: 1135
Relinquished by: (Signature) to GSO 5/6/11 1730	Received by: (Signature) CEL	Date: 5/7/11	Time: 0915
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

0499

GSO

WebShip > > > > >

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
CRA

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 516521468

SDS

ORC

D

GARDEN GROVE

D92843A

90906019

Print Date : 05/06/11 12:47 PM

Package 1 of 1

Send Label To Printer | ☑ Print All | Edit Shipment | Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
STEP 2 - Fold this page in half.
STEP 3 - Securely attach this label to your package, do not cover the barcode.
STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email | Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section.
Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 11-05-0499

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: CRA

DATE: 05/07/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature ____.___ °C + 0.5 °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 Initial: YC

CUSTODY SEALS INTACT:

☑ Box ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Initial: YC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: YC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☑	☐	☐

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☑Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** YC

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

Preservative: h: HCL n: HNO_3 na$_2$: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** MSC