CONESTOGA-ROVERS & ASSOCIATES

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

TRANSMITTAL

DATE: August 24, 2010

REFERENCE NO.: 060204

PROJECT NAME: 2301-2307 Lincoln Avenue, Alameda

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

RECEIVED
10:52 am, Aug 27, 2010
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
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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 contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Alan A. and Beverly M. Sebanc, Trustees, 2805 Ralston Avenue, Hillsborough, CA 94010
Jake Torrens, AMEC Geomatrix, Inc., 2101 Webster Street, 12th Floor, Oakland, CA 94612

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

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

Subject: 2301-2307 Lincoln Avenue
Alameda, California
SAP Code 165255
Incident No. 97767044
ACEH No. RO0002971

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.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Denis L. Brown
Project Manager

SOIL VAPOR SAMPLING REPORT

FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

SAP CODE	165255
INCIDENT NO.	97767044
AGENCY NO.	RO0002971

Prepared by:
Conestoga-Rovers & Associates

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

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AUGUST 24, 2010
REF. NO. 060204 (13)
This report is printed on recycled paper.

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EXECUTIVE SUMMARY

- On June 16, 2010, CRA sampled soil vapor probes SVP-4, SVP-5A, and SVP-6 through SVP-8, and on July 29, 2010, CRA sampled soil vapor probe SVP-5. SVP-5 could not be sampled on June 16, 2010, because a car was parked over it.
- All soil vapor samples were analyzed for TPHg, BTEX, and naphthalene. In addition, samples from SVP-7 were analyzed for full scan VOCs including chlorinated solvents.
- Soil vapor sample concentrations in all soil vapor samples were below RWQCB ESLs for residential and commercial land use during the June and July 2010 sampling events, with the exception of TPHg and ethylbenzene in SVP-5 (at 5 fbg).
- Soil vapor concentrations are defined below ESLs vertically by SVP-5A (at 2 fbg) and horizontally by SVP-2 though SVP-4 and SVP-6 through SVP-8. Based on these results, there is no indication that residual soil vapor concentrations pose a risk to the on-site building or adjacent buildings occupants.
- No further soil vapor monitoring is warranted.

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 recommended in CRA's November 23, 2009 *Revised Subsurface Investigation Work Plan* and conditionally approved in Alameda County Environmental Health's (ACEH's) January 12, 2010 letter.

The site is a former Shell service station located at the northeastern corner of Lincoln Avenue and Oak Street in Alameda, California (Figure 1). The area surrounding the site is mixed commercial and residential. The current site layout (Figure 2) includes a parking lot and commercial building housing a convenience store, a cleaners (not a dry cleaner), and a laundromat. The former service station layout included a station building, two dispenser islands, and seven fuel underground storage tanks (USTs). According to the Alameda Fire Department, the seven USTs were removed from the site in June 1982.

A summary of previous work performed at the site and additional background information was submitted in CRA's May 12, 2010 *Subsurface Investigation Report* and is not repeated herein.

2.0 SAMPLING ACTIVITIES

2.1 PERSONNEL PRESENT

CRA Staff Geologist Erin Swan sampled soil vapor probes SVP-4, SVP-5, SVP-5A, and SVP-6 through SVP-8, under the supervision of California Professional Geologist Peter Schaefer.

2.2 SAMPLING DATES

June 16, 2010 and July 29, 2010.

2.3 SOIL VAPOR SAMPLING

On June 16, 2010, CRA sampled soil vapor probes SVP-4, SVP-5A, and SVP-6 through SVP-8, and on July 29, 2010, CRA sampled soil vapor probe SVP-5. Soil vapor probe

SVP-5 could not be sampled on June 16, 2010, because a car was parked over it. All soil vapor samples were collected using a lung box and Tedlar® bag.

Prior to sampling, CRA purged at least three tubing volumes of air from the vapor probes using a vacuum pump. Immediately after purging, soil vapor samples were collected using a laboratory-supplied Tedlar® bag. During sampling, the Teflon® tubing for the vapor probes was connected to a lung box containing the Tedlar® bag, and the lung box chamber was connected to the vacuum pump. The samples were then drawn into the Tedlar® bag by reducing the pressure in the lung box with the vacuum pump. The samples were 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 each soil gas probe's 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 samples were 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 sample collected from SVP-5 (5 feet below grade [fbg]) contained 8,400,000 micrograms per cubic meter ($\mu g/m^3$) total petroleum hydrocarbons as gasoline (TPHg) and 14,000 $\mu g/m^3$ ethylbenzene. The soil vapor sample collected from SVP-7 at 2 fbg contained 4.9 $\mu g/m^3$ chloroform, 2.5 $\mu g/m^3$ dichlorodifluoromethane, and 15 $\mu g/m^3$ tetrachloroethene. The sample collected from SVP-7 at 5 fbg contained 26 $\mu g/m^3$ tetrachloroethene. No other constituents of concern were detected.

Table 1 summarizes historical soil vapor analytical data. TPHg and benzene results are shown on Figure 2, and the laboratory analytical reports are presented in Appendix A.

3.2 LEAK TESTING

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

Probe ID	*Helium concentration in sample (%v)*	*Helium detected in shroud (%v)*	*Maximum acceptable helium concentration in sample (%v)*
SVP-4-2′	<0.0100	65	6.5
SVP-4-5′	<0.0100	68	6.8
SVP-5A	<0.0100	68	6.8
SVP-5	<0.0100	65	6.5
SVP-6-2′	<0.0100	67	6.7
SVP-6-5′	<0.0100	65	6.5
SVP-7-2′	<0.0100	68	6.8
SVP-7-5′	<0.0100	65	6.5
SVP-8-2′	<0.0100	65	6.5
SVP-8-5′	<0.0100	65	6.5

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

4.0 CONCLUSIONS AND RECOMMENDATIONS

Soil vapor sample concentrations in all soil vapor samples were below San Francisco Bay Regional Water Quality Control Board environmental screening levels (ESLs) for residential and commercial land use during the June and July 2010 sampling events, with the exception of TPHg and ethylbenzene in SVP-5 at 5 fbg. Soil vapor concentrations are defined below ESLs vertically by SVP-5A (at 2 fbg) and horizontally by SVP-2 through SVP-4 and SVP-6 through SVP-8. Based on these results, there is no indication that residual soil vapor concentrations pose a risk to the on-site building or adjacent buildings occupants. No further soil vapor monitoring is warranted.

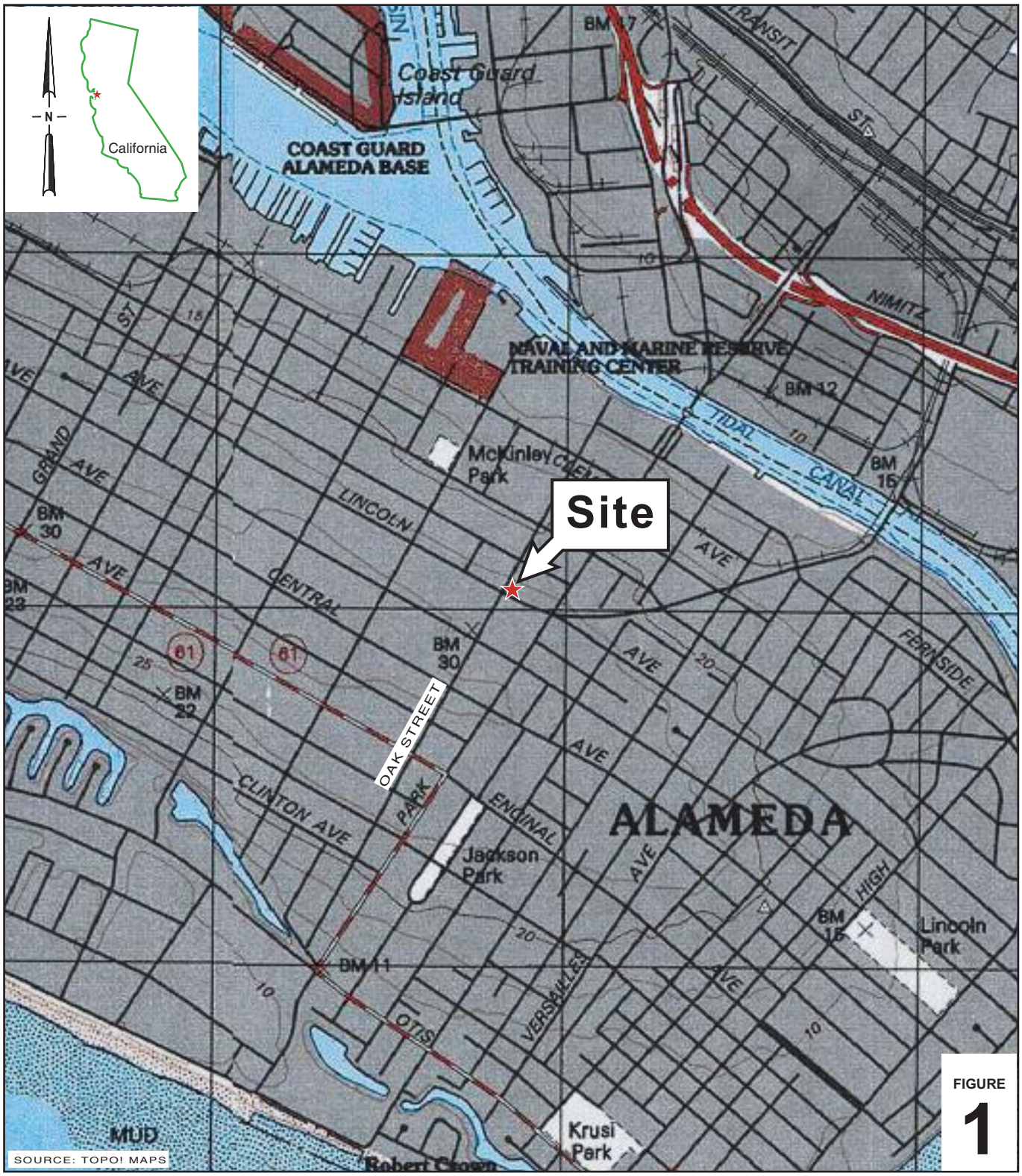
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG

FIGURES

12/01/08



I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 VICINITY.AI

FIGURE
1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

08/23/10

Soil Vapor Data Map

June 16 and July 29, 2010

Former 76 Station
2267 Lincoln Avenue

Former Shell Station
2301-2307 Lincoln Avenue

OAK STREET

LINCOLN AVENUE

Former Building (circa 1950)[1]

Former Gasoline & Oil USTs (installed in 1920s)

Former Tire Recapping Facility (circa 1950)[1]

Approximate Property Line

Former Station Building (circa 1982)[2]

Former Dispensers (circa 1982)[2]

Former USTs (installed in 1970s)

Alameda County Police Dept.

Alameda Free Library

Sidewalk, Driveway, Parking, Planter, Overhang

B-6, B-5, B-7, B-8

MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9

SB-1, SB-2, SB-3, SB-4, SB-5, SB-6

EB-1, EB-2, EB-3, EB-4, EB-5, EB-6, EB-8, EB-9, EB-10, EB-11

SVP-1, SVP-2, SVP-3, SVP-4, SVP-5, SVP-5A, SVP-6, SVP-7, SVP-8

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)
SVP-7-2ft	06/16/2010	2	<5,700	<1.6
SVP-7-5ft	06/16/2010	5	<5,700	<1.6

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)
SVP-8-2ft	06/16/2010	2	<5,700	<16
SVP-8-5ft	06/16/2010	5	<5,700	<16

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)
SVP-6-2ft	06/16/2010	2	<5,700	<16
SVP-6-5ft	06/16/2010	5	<5,700	<16

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)
SVP-5	07/29/2010	5	8,400,000	<10,000

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)
SVP-5A-2ft	06/16/2010	2	<5,700	<16

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)
SVP-4-2ft	06/16/2010	2	<5,700	<16
SVP-4-5ft	06/16/2010	5	<5,700	<16

EXPLANATION

- MW-1 — Monitoring well location
- B-6 — Soil boring location (CRA, 7/10)
- SVP-1 — Soil vapor probe location (CRA, 2/09, 3/10)
- B-5 — Geoprobe boring location (CRA, 2/09)
- EB-1 — Soil boring location (Geomatrix, 8/07)
- SB-1 — Soil boring location (Basics Environmental, 7/99)
- Electrical & Telecommunications line (E)
- Telecommunications & Cable TV line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)

Sources:

1. Sanborn Fire Insurance Map, 1950
2. Majors Civil Engineering, 1982

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)
SVP-4-2ft	06/16/2010	2	<5,700	<16
SVP-4-5ft	06/16/2010	5	<5,700	<16

Notes:

Soil vapor sample ID, date, depth in feet below grade (fbg), and concentrations in micrograms per cubic meter (µg/m³)

TPHg = Total petroleum hydrocarbons as gasoline

<X = Not detected at reporting limit X

N

0 15 30 60

Scale (ft)

FIGURE

2

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

Basemap modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatrix

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 SITE PLAN (F2, SOIL VAPOR DATA).DWG

TABLE

TABLE 1

SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Naphthalene*	*Chloro-form*	*Dichloro-difluoro-methane*	*Tetra-chloro-ethene*	*Butane*	*Isobutane*	*Propane*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Helium (%v)*
SVP-1	3/11/2009	5	<8,900	5.4[b]	<2.9[b]	<3.4[b]	<13[b]	<11	---	---	---	---	<18	110	<42	---	---	---	---
SVP-2	3/11/2009	5	<9,200	7.3[b]	<3.0[b]	<3.5[b]	<14[b]	<12	---	---	---	---	<19	<19	<43	---	---	---	---
SVP-3	3/11/2009	5	<11,000	5.5[b]	<3.6[b]	<4.2[b]	<17[b]	<14	---	---	---	---	<23	<23	<52	---	---	---	---
SVP-4-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	1.62	20.0	<0.0100
SVP-4-5ft	6/16/2010	5	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	1.74	20.0	<0.0100
SVP-5	3/11/2009	5	**10,000,000**	**11,000**[b]	1,800[b]	**21,000**[b]	<5,900[b]	<4,900	---	---	---	---	<8,100	<8,100	<18,000	---	---	---	---
SVP-5 DUP	3/11/2009	5	**11,000,000**	**12,000**[b]	1,600[b]	**23,000**[b]	<5,500[b]	<4,500	---	---	---	---	<7,500	<7,500	<17,000	---	---	---	---
SVP-5	7/29/2010	5	**8,400,000**	<10,000	<12,000	**14,000**	<27,000	---	<33,000	---	---	---	---	---	---	1.73	0.147	0.741	<0.0100
SVP-5A-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	6.20	14.6	<0.0100
SVP-6-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	4.12	17.7	<0.0100
SVP-6-5ft	6/16/2010	5	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	4.70	17.3	<0.0100
SVP-7-2ft[d]	6/16/2010	2	<5,700	<1.6[b]	<19[b]	<2.2[b]	<8.7[b]	<7.2	<52[b]	4.9	2.5	15	---	---	---	<0.500	1.91	19.8	<0.0100
SVP-7-5ft[d]	6/16/2010	5	<5,700	<1.6[b]	<19[b]	<2.2[b]	<8.7[b]	<7.2	<52[b]	<2.4	<2.5	26	---	---	---	<0.500	4.27	17.5	<0.0100
SVP-8-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	2.38	19.6	<0.0100
SVP-8-5ft	6/16/2010	5	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	3.38	18.0	<0.0100
Residential Land Use ESL[c]			*10,000*	*84*	*63,000*	*980*	*21,000*	*9,400*	*72*	*460*	*NA*	*410*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Commercial/Industrial Land Use ESL[c]			*29,000*	*280*	*180,000*	*3,300*	*58,000*	*31,000*	*240*	*1,500*	*NA*	*1,400*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

Notes:

All results in micrograms per cubic meter ($\mu g/m^3$) unless otherwise indicated.
%v = Percent by volume
fbg = Feet below grade
TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method TO-3M
Benzene, toluene, ethylbenzene and total xylenes analyzed by EPA Method 8260B (M) unless otherwise noted.
MTBE = Methyl tertiary-butyl ether by modified EPA Method TO-15
Naphthalene analyzed by EPA Method EPA Method 8260B (M) unless otherwise noted
Chloroform, dichlorodifluoromethane, and tetrachloroethene analyzed by EPA TO-15M.
Butane, isobutane, and propane by modified EPA Method TO-15
Methane, carbon dioxide, oxygen + argon, and helium analyzed by ASTM D-1946
<x = Not detected at reporting limit x
--- = Not analyzed
ESL = Environmental screening level
NA = No applicable ESL

a = Field duplicate
b = Analyzed by modified EPA Method TO-15M
c = 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])
d = Sample analyzed for full volatile organic compound scan by EPA Method 8260B (M). All detected compounds tabulated.

APPENDIX A

LABORATORY ANALYTICAL REPORTS

Calscience
Environmental
Laboratories, Inc.

June 23, 2010

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

Subject: **Calscience Work Order No.: 10-06-1411**
Client Reference: 2301-2307 Lincoln Ave., Alameda, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/17/2010 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 Lanelle for

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

Case Narrative

Work Order # 10-06-1411

Modified EPA TO-14A or EPA TO-15

EPA Methods TO-14A and TO-15 describe gas chromatographic procedures that will allow for that separation of volatile organic compounds and their qualitative and quantitative analysis by mass spectrometry (GC/MS). 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 EPA TO-14A/TO-15 versus Calscience EPA TO-14A/TO-15 (Modified)

Requirement	EPA Method	Calscience Modifications
BFB Acceptance Criteria	CLP Protocol	SW846 Protocol
Initial Calibration	Allowable % RSD for each Target Analyte <= 30%, two analytes allowed <= 40%	Allowable % RSD for each Target Analyte <= 30%, 10% of analytes allowed <= 40%
Initial Calibration Verification (ICV) - Second Source Standard (LCS)	Not Mentioned	Analytes contained in the LCS standard evaluated against historical control limits for the LCS
Daily Calibration Verification (CCV)	Allowable % Difference for each Target Analyte is <= 30%	**Full List Analysis:** Allowable % Difference for each CCC analyte is <= 30% **Target List Analysis:** Allowable % Difference for each target analytes is <= 30%
Daily Calibration Verification (CCV) - Internal Standard Area Response	Allowable +/- 40% (Range: 60% to 140%)	Allowable +/- 50% (Range: 50% to 150%)
Method Blank, Laboratory Control Sample and Sample - Internal Standard Area Response	Allowable +/- 40% of the mean area response of most recent Initial Calibration (Range: 60% to 140%)	Allowable +/- 50% of the mean area response of the most recent Calibration Verification (Range: 50% to 150%)
Surrogates	Not Mentioned	1,4-Bromoflurobenzene, 1,2-Dichloroethane-d4 and Toluene-d8 - % Recoveries based upon historical control limits +/-3S

Case Narrative

Work Order # 10-06-1411

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
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: ASTM D-1946
Units: %v

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4-2ft	10-06-1411-1-A	06/16/10 12:40	Air	GC 36	N/A	06/17/10 00:00	100617L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	20.0	0.500	1	
Carbon Dioxide	1.62	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4-5ft	10-06-1411-2-A	06/16/10 13:00	Air	GC 36	N/A	06/17/10 00:00	100617L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	20.0	0.500	1	
Carbon Dioxide	1.74	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5A-2ft	10-06-1411-3-A	06/16/10 13:35	Air	GC 36	N/A	06/17/10 00:00	100617L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	14.6	0.500	1	
Carbon Dioxide	6.20	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-6-2ft	10-06-1411-4-A	06/16/10 13:55	Air	GC 36	N/A	06/17/10 00:00	100617L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	17.7	0.500	1	
Carbon Dioxide	4.12	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-6-5ft	10-06-1411-5-A	06/16/10 14:10	Air	GC 36	N/A	06/17/10 00:00	100617L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	17.3	0.500	1	
Carbon Dioxide	4.70	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7-2ft	10-06-1411-6-A	06/16/10 15:10	Air	GC 36	N/A	06/17/10 00:00	100617L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	19.8	0.500	1	
Carbon Dioxide	1.91	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7-5ft	10-06-1411-7-A	06/16/10 15:25	Air	GC 36	N/A	06/17/10 00:00	100617L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	17.5	0.500	1	
Carbon Dioxide	4.27	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: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: ASTM D-1946
Units: %v

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-8-2ft	10-06-1411-8-A	06/16/10 14:30	Air	GC 36	N/A	06/17/10 00:00	100617L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	19.6	0.500	1	
Carbon Dioxide	2.38	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-8-5ft	10-06-1411-9-A	06/16/10 14:47	Air	GC 36	N/A	06/17/10 00:00	100617L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	18.0	0.500	1	
Carbon Dioxide	3.38	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-03-002-1,069	N/A	Air	GC 36	N/A	06/17/10 00:00	100617L01

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: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: EPA TO-3M

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4-2ft	10-06-1411-1-A	06/16/10 12:40	Air	GC 13	N/A	06/17/10 13:39	100617L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4-5ft	10-06-1411-2-A	06/16/10 13:00	Air	GC 13	N/A	06/17/10 13:52	100617L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5A-2ft	10-06-1411-3-A	06/16/10 13:35	Air	GC 13	N/A	06/17/10 14:02	100617L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-6-2ft	10-06-1411-4-A	06/16/10 13:55	Air	GC 13	N/A	06/17/10 14:16	100617L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-6-5ft	10-06-1411-5-A	06/16/10 14:10	Air	GC 13	N/A	06/17/10 14:26	100617L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7-2ft	10-06-1411-6-A	06/16/10 15:10	Air	GC 13	N/A	06/17/10 14:36	100617L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	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: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: EPA TO-3M

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7-5ft	**10-06-1411-7-A**	**06/16/10 15:25**	**Air**	**GC 13**	**N/A**	**06/17/10 14:46**	**100617L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-8-2ft	**10-06-1411-8-A**	**06/16/10 14:30**	**Air**	**GC 13**	**N/A**	**06/17/10 14:56**	**100617L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-8-5ft	**10-06-1411-9-A**	**06/16/10 14:47**	**Air**	**GC 13**	**N/A**	**06/17/10 15:06**	**100617L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**098-01-005-2,373**	**N/A**	**Air**	**GC 13**	**N/A**	**06/17/10 08:36**	**100617L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	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: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4-2ft	10-06-1411-1-A	06/16/10 12:40	Air	GC 55	N/A	06/17/10 00:00	100617L01

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-4-5ft	10-06-1411-2-A	06/16/10 13:00	Air	GC 55	N/A	06/17/10 00:00	100617L01

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-5A-2ft	10-06-1411-3-A	06/16/10 13:35	Air	GC 55	N/A	06/17/10 00:00	100617L01

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-6-2ft	10-06-1411-4-A	06/16/10 13:55	Air	GC 55	N/A	06/17/10 00:00	100617L01

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-6-5ft	10-06-1411-5-A	06/16/10 14:10	Air	GC 55	N/A	06/17/10 00:00	100617L01

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-7-2ft	10-06-1411-6-A	06/16/10 15:10	Air	GC 55	N/A	06/17/10 00:00	100617L01

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: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7-5ft	**10-06-1411-7-A**	**06/16/10 15:25**	**Air**	**GC 55**	**N/A**	**06/17/10 00:00**	**100617L01**

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-8-2ft	**10-06-1411-8-A**	**06/16/10 14:30**	**Air**	**GC 55**	**N/A**	**06/17/10 00:00**	**100617L01**

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-8-5ft	**10-06-1411-9-A**	**06/16/10 14:47**	**Air**	**GC 55**	**N/A**	**06/17/10 00:00**	**100617L01**

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	**099-12-872-34**	**N/A**	**Air**	**GC 55**	**N/A**	**06/17/10 00:00**	**100617L01**

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: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: EPA TO-15M
Units: ug/m3

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7-2ft	10-06-1411-6-A	06/16/10 15:10	Air	GC/MS K	N/A	06/18/10 00:42	100617L01

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
Acetone	ND	120	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzene	ND	1.6	1		Ethanol	ND	94	1	
Benzyl Chloride	ND	7.8	1		Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	
Bromodichloromethane	ND	3.4	1		Ethylbenzene	ND	2.2	1	
Bromoform	ND	5.2	1		4-Ethyltoluene	ND	2.5	1	
Bromomethane	ND	1.9	1		Hexachloro-1,3-Butadiene	ND	16	1	
2-Butanone	ND	4.4	1		2-Hexanone	ND	6.1	1	
Carbon Disulfide	ND	31	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Tetrachloride	ND	3.1	1		Methylene Chloride	ND	17	1	
Chlorobenzene	ND	2.3	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chloroethane	ND	1.3	1		Naphthalene	ND	52	1	
Chloroform	4.9	2.4	1		Xylenes (total)	ND	8.7	1	
Chloromethane	ND	1.0	1		Styrene	ND	6.4	1	
Dibromochloromethane	ND	4.3	1		Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	
Dichlorodifluoromethane	2.5	2.5	1		Tert-Butyl Alcohol (TBA)	ND	15	1	
Diisopropyl Ether (DIPE)	ND	8.4	1		Tetrachloroethene	15	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Toluene	ND	19	1	
1,1-Dichloroethene	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dibromoethane	ND	3.8	1		Trichlorofluoromethane	ND	5.6	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dichlorobenzene	ND	3.0	1		1,1,1-Trichloroethane	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichloropropane	ND	2.3	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,3-Dichlorobenzene	ND	3.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,4-Dichlorobenzene	ND	3.0	1		1,2,4-Trimethylbenzene	ND	7.4	1	
c-1,3-Dichloropropene	ND	2.3	1		1,2,4-Trichlorobenzene	ND	15	1	
c-1,2-Dichloroethene	ND	2.0	1		Vinyl Acetate	ND	7.0	1	
t-1,2-Dichloroethene	ND	2.0	1		Vinyl Chloride	ND	1.3	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	108	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	100	78-156					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	06/17/10
5900 Hollis Street, Suite A	Work Order No:	10-06-1411
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-15M
	Units:	ug/m3

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-7-5ft	10-06-1411-7-A	06/16/10 15:25	Air	GC/MS K	N/A	06/18/10 01:32	100617L01

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
Acetone	ND	120	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzene	ND	1.6	1		Ethanol	ND	94	1	
Benzyl Chloride	ND	7.8	1		Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	
Bromodichloromethane	ND	3.4	1		Ethylbenzene	ND	2.2	1	
Bromoform	ND	5.2	1		4-Ethyltoluene	ND	2.5	1	
Bromomethane	ND	1.9	1		Hexachloro-1,3-Butadiene	ND	16	1	
2-Butanone	ND	4.4	1		2-Hexanone	ND	6.1	1	
Carbon Disulfide	ND	31	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Tetrachloride	ND	3.1	1		Methylene Chloride	ND	17	1	
Chlorobenzene	ND	2.3	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chloroethane	ND	1.3	1		Naphthalene	ND	52	1	
Chloroform	ND	2.4	1		Xylenes (total)	ND	8.7	1	
Chloromethane	ND	1.0	1		Styrene	ND	6.4	1	
Dibromochloromethane	ND	4.3	1		Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	
Dichlorodifluoromethane	ND	2.5	1		Tert-Butyl Alcohol (TBA)	ND	15	1	
Diisopropyl Ether (DIPE)	ND	8.4	1		Tetrachloroethene	26	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Toluene	ND	19	1	
1,1-Dichloroethene	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dibromoethane	ND	3.8	1		Trichlorofluoromethane	ND	5.6	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dichlorobenzene	ND	3.0	1		1,1,1-Trichloroethane	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichloropropane	ND	2.3	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,3-Dichlorobenzene	ND	3.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,4-Dichlorobenzene	ND	3.0	1		1,2,4-Trimethylbenzene	ND	7.4	1	
c-1,3-Dichloropropene	ND	2.3	1		1,2,4-Trichlorobenzene	ND	15	1	
c-1,2-Dichloroethene	ND	2.0	1		Vinyl Acetate	ND	7.0	1	
t-1,2-Dichloroethene	ND	2.0	1		Vinyl Chloride	ND	1.3	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	106	57-129			1,2-Dichloroethane-d4	125	47-137		
Toluene-d8	99	78-156							

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: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: EPA TO-15M
Units: ug/m3

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-981-602**	**N/A**	**Air**	**GC/MS K**	**N/A**	**06/17/10 12:49**	**100617L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzene	ND	1.6	1		Ethanol	ND	94	1	
Benzyl Chloride	ND	7.8	1		Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	
Bromodichloromethane	ND	3.4	1		Ethylbenzene	ND	2.2	1	
Bromoform	ND	5.2	1		4-Ethyltoluene	ND	2.5	1	
Bromomethane	ND	1.9	1		Hexachloro-1,3-Butadiene	ND	16	1	
2-Butanone	ND	4.4	1		2-Hexanone	ND	6.1	1	
Carbon Disulfide	ND	31	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Tetrachloride	ND	3.1	1		Methylene Chloride	ND	17	1	
Chlorobenzene	ND	2.3	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chloroethane	ND	1.3	1		Naphthalene	ND	52	1	
Chloroform	ND	2.4	1		Xylenes (total)	ND	8.7	1	
Chloromethane	ND	1.0	1		Styrene	ND	6.4	1	
Dibromochloromethane	ND	4.3	1		Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	
Dichlorodifluoromethane	ND	2.5	1		Tert-Butyl Alcohol (TBA)	ND	15	1	
Diisopropyl Ether (DIPE)	ND	8.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Toluene	ND	19	1	
1,1-Dichloroethene	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dibromoethane	ND	3.8	1		Trichlorofluoromethane	ND	5.6	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dichlorobenzene	ND	3.0	1		1,1,1-Trichloroethane	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichloropropane	ND	2.3	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,3-Dichlorobenzene	ND	3.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,4-Dichlorobenzene	ND	3.0	1		1,2,4-Trimethylbenzene	ND	7.4	1	
c-1,3-Dichloropropene	ND	2.3	1		1,2,4-Trichlorobenzene	ND	15	1	
c-1,2-Dichloroethene	ND	2.0	1		Vinyl Acetate	ND	7.0	1	
t-1,2-Dichloroethene	ND	2.0	1		Vinyl Chloride	ND	1.3	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	104	47-137		
Toluene-d8	96	78-156							

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: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: EPA 8260B (M)
Units: ug/m3

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4-2ft	**10-06-1411-1-A**	**06/16/10 12:40**	**Air**	**GC/MS K**	**N/A**	**06/17/10 20:30**	**100617L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	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	99	47-156		
Toluene-d8	98	47-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-4-5ft	**10-06-1411-2-A**	**06/16/10 13:00**	**Air**	**GC/MS K**	**N/A**	**06/17/10 21:21**	**100617L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	105	47-156			1,2-Dichloroethane-d4	100	47-156		
Toluene-d8	99	47-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5A-2ft	**10-06-1411-3-A**	**06/16/10 13:35**	**Air**	**GC/MS K**	**N/A**	**06/17/10 22:12**	**100617L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	47-156			1,2-Dichloroethane-d4	101	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-6-2ft	**10-06-1411-4-A**	**06/16/10 13:55**	**Air**	**GC/MS K**	**N/A**	**06/17/10 23:04**	**100617L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	108	47-156			1,2-Dichloroethane-d4	121	47-156		
Toluene-d8	99	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: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: EPA 8260B (M)
Units: ug/m3

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-6-5ft	**10-06-1411-5-A**	**06/16/10 14:10**	**Air**	**GC/MS K**	**N/A**	**06/17/10 23:53**	**100617L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	105	47-156			1,2-Dichloroethane-d4	100	47-156		
Toluene-d8	99	47-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-8-2ft	**10-06-1411-8-A**	**06/16/10 14:30**	**Air**	**GC/MS K**	**N/A**	**06/18/10 02:21**	**100617L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	109	47-156			1,2-Dichloroethane-d4	124	47-156		
Toluene-d8	100	47-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-8-5ft	**10-06-1411-9-A**	**06/16/10 14:47**	**Air**	**GC/MS K**	**N/A**	**06/18/10 03:10**	**100617L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	109	47-156			1,2-Dichloroethane-d4	123	47-156		
Toluene-d8	99	47-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-13-041-62**	**N/A**	**Air**	**GC/MS K**	**N/A**	**06/17/10 12:49**	**100617L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	47-156			1,2-Dichloroethane-d4	104	47-156		
Toluene-d8	96	47-156							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

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

Date Received: 06/17/10
Work Order No: 10-06-1411
Preparation: N/A
Method: EPA TO-3M

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
10-06-1412-2	Air	GC 13	N/A	06/17/10	100617D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	58000	61000	5	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:	10-06-1411
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	ASTM D-1946

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,069	Air	GC 36	N/A	06/17/10	100617L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	98	96	80-120	3	0-30	
Oxygen + Argon	89	87	80-120	2	0-30	
Nitrogen	89	88	80-120	2	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: 10-06-1411
Emeryville, CA 94608-2008	Preparation: N/A
	Method: ASTM D-1946 (M)

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-34	Air	GC 55	N/A	06/17/10	100617L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Helium	100	98	80-120	2	0-30	
Hydrogen	108	106	80-120	1	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 10-06-1411
Preparation: N/A
Method: EPA TO-15M

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-981-602	Air	GC/MS K	N/A	06/17/10	100617L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	100	100	60-156	44-172	0	0-40	
Carbon Tetrachloride	103	103	64-154	49-169	1	0-32	
1,2-Dibromoethane	102	102	54-144	39-159	0	0-36	
1,2-Dichlorobenzene	90	91	34-160	13-181	1	0-47	
1,2-Dichloroethane	97	98	69-153	55-167	1	0-30	
1,2-Dichloropropane	103	104	67-157	52-172	0	0-35	
1,4-Dichlorobenzene	90	91	36-156	16-176	1	0-47	
c-1,3-Dichloropropene	111	112	61-157	45-173	1	0-35	
Ethylbenzene	102	102	52-154	35-171	1	0-38	
o-Xylene	104	104	52-148	36-164	0	0-38	
p/m-Xylene	102	102	42-156	23-175	0	0-41	
Tetrachloroethene	97	98	56-152	40-168	0	0-40	
Toluene	100	101	56-146	41-161	1	0-43	
Trichloroethene	99	100	63-159	47-175	1	0-34	
1,1,2-Trichloroethane	105	104	65-149	51-163	0	0-37	
Vinyl Chloride	101	102	45-177	23-199	1	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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 10-06-1411
Preparation: N/A
Method: EPA 8260B (M)

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-041-62	Air	GC/MS K	N/A	06/17/10	100617L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	100	60-156	0	0-40	
Toluene	100	101	56-146	1	0-43	
Ethylbenzene	102	102	52-154	1	0-38	
p/m-Xylene	102	102	42-156	0	0-41	
o-Xylene	104	104	52-148	0	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-06-1411

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.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
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.

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

INCIDENT # (ENV SERVICES): 97677045

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 6/16/10

PAGE: 1 of 1

PO #:

SAP #: 16525525

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 2301-2307 Lincoln Ave, Alameda

State: CA

GLOBAL ID NO: TO6179714590

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: 60204-95

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: 10-06-1411

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 :

Copy of final report to Shell.Lab.Billing@craworld.com

Please report results in ug/m3

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPHg, BTEX, & Napthalene (8260B)	Oxygen, Carbon Dioxide, Methane, Helium (ASTM D 1946)	Full VOC list Include Chlorinated solvents (8260B)	Container PID Readings or Laboratory Notes
1	SVP-4-2ft	6/16/2010	12:40	Vapor						1	X	X		
2	SVP-4-5ft	6/16/2010	1:00	Vapor						1	X	X		
3	SVP-5A-2ft	6/16/2010	1:35	Vapor						1	X	X		
4	SVP-6-2ft	6/16/2010	1:55	Vapor						1	X	X		
5	SVP-6-5ft	6/16/2010	2:10	Vapor						1	X	X		
6	SVP-7-2ft	6/16/2010	3:10	Vapor						1	X	X	X	
7	SVP-7-5ft	6/16/2010	3:25	Vapor						1	X	X	X	
8	SVP-8-2ft	6/16/2010	2:30	Vapor						1	X	X		
9	SVP-8-5ft	6/16/2010	2:47	Vapor						1	X	X		
	[redacted]													

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
E. Swan	CEL	6/16/10	4:20
CO 6-16-10 1730	M. Gallagher	6/17/10	10:20

05/2/06 Revision

GIO

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 #: 514367955

NPS

ORC **D**

GARDEN GROVE

D92843A

82433252

Print Date : 06/16/10 16:31 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 #: 10-06-1 4 1 1

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA DATE: 06/17/10

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 ☐ Metals Only ☐ PCBs Only Initial: _____

CUSTODY SEALS INTACT:

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

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

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 / Residual Chlorine / Dissolved Sulfide 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:** _____

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

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:** _____

Calscience
Environmental
Laboratories, Inc.

Supplemental Report 1

August 13, 2010

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

Subject: **Calscience Work Order No.: 10-07-2276**
Client Reference: 2301-2307 Lincoln Ave., Alameda, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/30/2010 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 H. Dang
Project Manager

Case Narrative

Work Order # 10-07-2276

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
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 07/30/10
Work Order No: 10-07-2276
Preparation: N/A
Method: ASTM D-1946
Units: %v

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	10-07-2276-1-A	07/29/10 12:40	Air	GC 36	N/A	07/30/10 12:32	100730L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	1.37	0.500	1		Oxygen + Argon	3.30	0.500	1	
Carbon Dioxide	14.7	0.500	1						

Method Blank	099-03-002-1,100	N/A	Air	GC 36	N/A	07/30/10 08:46	100730L01

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: 07/30/10
Work Order No: 10-07-2276
Preparation: N/A
Method: EPA TO-3M

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	10-07-2276-1-A	07/29/10 12:40	Air	GC 13	N/A	07/30/10 12:42	100730L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	8400000	57000	10		ug/m3

Method Blank	098-01-005-2,479	N/A	Air	GC 13	N/A	07/30/10 08:41	100730L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5700	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: 07/30/10
Work Order No: 10-07-2276
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	10-07-2276-1-A	07/29/10 12:40	Air	GC 55	N/A	07/30/10 00:00	100730L01

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

Method Blank	099-12-872-36	N/A	Air	GC 55	N/A	07/30/10 00:00	100730L01

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: 07/30/10
Work Order No: 10-07-2276
Preparation: N/A
Method: EPA 8260B (M)
Units: ug/m3

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	10-07-2276-1-A	07/29/10 12:40	Air	GC/MS K	N/A	07/30/10 16:01	100730L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	10000	625		Xylenes (total)	ND	27000	625	
Toluene	ND	12000	625		Naphthalene	ND	33000	625	
Ethylbenzene	14000	14000	625						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	107	47-156			1,2-Dichloroethane-d4	98	47-156		
Toluene-d8	107	47-156							

Method Blank	099-13-041-104	N/A	Air	GC/MS K	N/A	07/30/10 12:45	100730L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	47-156			1,2-Dichloroethane-d4	100	47-156		
Toluene-d8	95	47-156							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

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

Date Received: 07/30/10
Work Order No: 10-07-2276
Preparation: N/A
Method: EPA TO-3M

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
SVP-5	Air	GC 13	N/A	07/30/10	100730D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	8400000	9300000	10	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 10-07-2276
Preparation: N/A
Method: ASTM D-1946

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,100	Air	GC 36	N/A	07/30/10	100730L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	94	94	80-120	1	0-30	
Oxygen + Argon	88	89	80-120	0	0-30	
Nitrogen	89	89	80-120	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 10-07-2276
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-36	Air	GC 55	N/A	07/30/10	100730L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Helium	112	108	80-120	4	0-30	
Hydrogen	116	112	80-120	4	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: 10-07-2276
Emeryville, CA 94608-2008	Preparation: N/A
	Method: EPA 8260B (M)

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-041-104	Air	GC/MS K	N/A	07/30/10	100730L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	73	75	60-156	3	0-40	
Toluene	80	81	56-146	1	0-43	
Ethylbenzene	88	88	52-154	0	0-38	
p/m-Xylene	90	90	42-156	0	0-41	
o-Xylene	89	89	52-148	0	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-07-2276

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.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
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.

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

INCIDENT # (ENV SERVICES): 97764 ☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 165255

DATE: 7/29/10

PAGE: 1 of 1

SAMPLING COMPANY	LOG CODE
Conestoga-Rovers & Associates	CRAW

SITE ADDRESS: Street and City	State	GLOBAL ID NO
2301-2307 Lincoln Ave, Alameda	CA	TO6179714590

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

EDF DELIVERABLE TO (Name, Company, Office Location)	PHONE NO	E-MAIL	CONSULTANT PROJECT NO
Brenda Carter, CRA, Emeryville	510-420-3343	shell.em.edf@craworld.com	60204-95

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

TELEPHONE	FAX	E-MAIL
510-420-3319	510-420-9170	pschaefer@craworld.com

SAMPLER NAME(S) (Print): Erin Swan

LAB USE ONLY: 10-07-2276

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 :

Copy of final report to Shell.Lab.Billing@craworld.com

Please report results in ug/m3

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPHg, BTEX, & Napthalene (8260B)	Oxygen, Carbon Dioxide, Methane, Helium (ASTM D 1946)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	SVP-5	7/29/10	12:40	Vapor				X		1	X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Erin Swan	CEL	7/29/10	2:45
650 7-29-10 1730		7/30/10	10:30

05/2/06 Revision

2278
6

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, STANTEC

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 514646204

NPS

ORC

D

GARDEN GROVE

D92843A

83517691

Print Date : 07/29/10 15:04 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 #: 10-07-2276

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: CRA

DATE: 07/30/10

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 ☐ Metals Only ☐ PCBs Only **Initial:** PS

CUSTODY SEALS INTACT:

☑ Box ☐ ________ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Initial:** PS

☐ Sample ☐ ________ ☐ No (Not Intact) ☑ Not Present **Initial:** [illegible]

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 / Residual Chlorine / Dissolved Sulfide 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 ☐VOAh ☐VOAna$_2$ ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna$_2$ ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna$_2$ ☐________ ☐________ ☐________

Air: ☑Tedlar® ☐Summa® **Other:** ☐______ **Trip Blank Lot#:**________ **Labeled/Checked by:** [illegible]

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

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:** [illegible]