CONESTOGA-ROVERS & ASSOCIATES

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

TRANSMITTAL

DATE: April 9, 2009

REFERENCE NO.: 060204

PROJECT NAME: 2301-2307 Lincoln Avenue, Alameda

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

RECEIVED
10:38 am, Apr 13, 2009
Alameda County
Environmental Health

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

Sent via:
- ☐ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☒ Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Subsurface Investigation 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, 20945 S. Wilmington Avenue, Carson, CA 90810
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 Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

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

SUBSURFACE INVESTIGATION 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

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

web: http://www.CRAworld.com

APRIL 9, 2009
REF. NO. 060204 (3)
This report is printed on recycled paper.

TABLE OF CONTENTS

Page

LIST OF FIGURES
(Following Text)

LIST OF TABLES
(Following Text)

LIST OF APPENDICES

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 subsurface investigation at this site. The purpose of the investigation was to further assess the horizontal and vertical extent of petroleum hydrocarbons in soil and groundwater, and to assess the potential for soil gas migration to indoor air. CRA followed the scope of work and procedures presented in CRA's September 4, 2008 work plan which was approved by Alameda County Health Care Services Agency (ACHCSA) in their November 7, 2008 letter.

Due to interference with underground utilities, two of the proposed wells (MW-9 and MW-10) and one of the proposed soil borings (B-6) could not be safely installed. In addition, during the soil vapor sampling event, SVP-4 could not be sampled due to a blockage in the well construction.

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 is contained in Appendix A.

2.0 EXECUTIVE SUMMARY

- Five groundwater monitoring wells (MW-4, MW-5, MW-6, MW-7, and MW-8) were installed. Proposed wells MW-9 and MW-10 could not be safely installed due to interference with underground utilities at the proposed locations.
- Three soil borings (B-5, B-7, and B-8) were drilled to collect shallow soil samples and shallow groundwater grab samples. Proposed boring B-6 could not be safely drilled due to interference with underground utilities at the proposed location.
- Five soil vapor probes (SVP-1 through SVP-5) were installed. Soil vapor probe SVP-4 could not be sampled due to an unknown blockage in the well construction.
- No benzene, toluene, or MTBE were detected in soil samples collected during this investigation. Only the TPHg (7,900 mg/kg), ethylbenzene (120 mg/kg), and total xylenes (150 mg/kg) detections in sample B-8-8.5' exceed the ESLs.
- TPHg, benzene, ethylbenzene, and xylenes were detected in grab groundwater samples collected from some of the borings. Only TPHg (up to 470 µg/l) exceeded the ESL in two samples; no other constituents of concern exceeded ESLs. MTBE was not detected in grab groundwater.
- Soil vapor samples from soil vapor probe SVP-5 contained concentrations of TPHg (up to 11,000,000 µg/m^3), benzene (up to 12,000 µg/m^3), and ethylbenzene (up to 23,000 µg/m^3), which exceed ESLs. TPHg and BTEX concentrations in soil vapor samples collected from the other three soil vapor probes (SVP-1, SVP-2, and SVP-3) were all below ESLs. MTBE was not detected in soil vapor.

3.0 WELL INSTALLATION

3.1 PERMIT

CRA obtained a drilling permit from Alameda County Public Works Agency (ACPWA) (Appendix B).

3.2 FIELD DATES

February 17 through February 25, 2009.

3.3 DRILLING COMPANY

Gregg Drilling & Testing, Inc.

3.4 PERSONNEL PRESENT

Geologist Erin Reinhart-Koylu directed the drilling activities under the supervision of California Professional Geologist Peter Schaefer.

3.5 DRILLING METHOD

Geoprobe®, hydropunch, and hollow-stem auger.

3.6 NUMBER OF BORINGS

Five soil borings were drilled and converted to wells (MW-4, MW-5, MW-6, MW-7, and MW-8). Proposed wells MW-9 and MW-10 could not be safely installed due to interference with underground utilities at the proposed locations.

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

3.7 BORING DEPTHS

34 feet below grade (fbg) with Geoprobe® and hydropunch. Each well boring was then backfilled with bentonite to 18 fbg and over-drilled with hollow-stem augers to 18 fbg.

3.8 GROUNDWATER DEPTH

Groundwater was first-encountered at 9 to 10 fbg.

3.9 WASTE DISPOSAL

Soil, asphalt, water-knife sludge, and rinsate generated during field activities were stored on site in 55-gallon drums, sampled, and profiled for disposal. Waste disposal confirmation documentation is pending and will be provided by CRA upon request.

4.0 SOIL BORINGS

4.1 PERMIT

CRA obtained a drilling permit from ACPWA (Appendix B).

4.2 FIELD DATE

February 27, 2009.

4.3 DRILLING COMPANY

Gregg Drilling & Testing, Inc.

4.4 PERSONNEL PRESENT

Geologist Erin Reinhart-Koylu directed the drilling activities under the supervision of California Professional Geologist Peter Schaefer.

4.5 DRILLING METHOD

Geoprobe® and hydropunch.

4.6 NUMBER OF BORINGS

Three soil borings (B-5, B-7, and B-8) were drilled for shallow soil and grab-groundwater sampling. Proposed boring B-6 could not be safely drilled due to interference with underground utilities at the proposed locations.

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

4.7 BORING DEPTHS

13 fbg.

4.8 GROUNDWATER DEPTH

Groundwater was first-encountered at 9 fbg.

4.9 WASTE DISPOSAL

Soil, asphalt, water-knife sludge, and rinsate generated during field activities were stored on site in 55-gallon drums, sampled, and profiled for disposal. Waste disposal confirmation documentation is pending and will be provided by CRA upon request.

5.0 SOIL VAPOR PROBE INSTALLATION AND SAMPLING

5.1 PERMIT

CRA obtained a drilling permit from ACPWA (Appendix B).

5.2 FIELD DATES

February 18 and February 19, 2009.

5.3 DRILING COMPANY

Gregg Drilling & Testing, Inc.

5.4 PERSONNEL PRESENT

Geologist Erin Reinhart-Koylu directed the probe installation working under the supervision of California Professional Geologist Peter Schaefer.

5.5 DRILLING METHOD

Air-knife.

5.6 NUMBER OF PROBES

CRA installed five soil vapor probes (SVP-1 through SVP-5). The probe specifications and soil types encountered are described on the boring logs contained in Appendix C. The probe locations are shown on Figure 2.

5.7 VAPOR POINT MATERIALS

The vapor probes were constructed using ¼-inch diameter Teflon tubing attached to 1-inch length plastic screen intervals, and #2/12 Monterey sand filter pack. Probe diagrams are provided with boring logs in Appendix C.

5.8 SCREENED INTERVALS

4.9 to 5.0 fbg.

5.9 SOIL VAPOR SAMPLING

Due to weather conditions, soil vapor sampling was postponed until March 11, 2009. Soil vapor probe SVP-4 could not be sampled due to an unknown blockage in the well construction.

5.9.1 SOIL VAPOR SAMPLING PROCEDURE

Soil vapor sampling and leak testing were performed following Department of Toxic Substances Control's January 28, 2003 *Advisory-Active Soil Gas Investigation* guidelines. Paper towels with shaving cream were placed at sample system connections for the leak test.

Purging and sampling of the probes were conducted at a rate of approximately 200 milliliters per minute (ml/min). Vapor samples were collected in 1-liter Summa™ canisters after removing approximately three purge volumes from the screen interval. Each sample was labeled, documented on a chain-of-custody, and submitted to Calscience Environmental Laboratories, Inc. of Garden Grove, California for analysis.

5.9.2 SOIL VAPOR SAMPLING ANALYSES

Soil vapor samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method TO-3 (modified) and benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary-butyl ether (MTBE), and tracer compounds isobutane, butane, and propane (as tentatively identified compounds) by modified EPA Method TO-15. These tracer compounds were identified by EPA Method TO-15 as the most abundant compounds of the specific shaving cream analyzed and indicated by distinctive peaks on the petroleum hydrocarbon chromatograph, separate from TPH in the gasoline range.

5.10 WASTE DISPOSAL

Soil, asphalt, water-knife sludge, and rinsate generated during field activities were stored on site, in 55-gallon drums, sampled, and profiled for disposal. Waste disposal confirmation documentation is pending and will be provided by CRA upon request.

6.0 FINDINGS

6.1 SOIL

The soil chemical analytical data are summarized in Table 1, and TPHg and benzene analytical results are presented on Figure 3. Laboratory analytical reports are presented in Appendix D.

6.2 GROUNDWATER

The groundwater grab sample chemical analytical data are summarized in Table 2, and TPHg and benzene analytical results are presented on Figure 4. Laboratory analytical reports are presented in Appendix D.

The new wells were developed on March 16, and site wells were sampled per the existing protocol on March 27, 2009. These results will be submitted to ACHCSA under separate cover.

6.3 SOIL VAPOR

The soil vapor chemical analytical data are summarized in Table 3, and TPHg and benzene analytical results are presented on Figure 5. Laboratory analytical reports are presented in Appendix D.

6.3.1 LEAK TESTING

Leak testing was performed during sampling using shaving cream to determine if ambient air was entering the Summa™ canisters during sampling. Isobutane was detected in the sample from SVP-1. The concentration reported was 110 micrograms per cubic meter ($\mu g/m^3$), an amount considered negligible when compared with the amount in the tracer gas compound (approximately 350,000 $\mu g/m^3$ in shaving cream). No other tracer gas constituents were detected.

7.0 CONCLUSIONS

No benzene, toluene, or MTBE were detected in soil samples collected during this investigation. Only the TPHg (7,900 milligrams per kilogram [mg/kg]), ethylbenzene (120 mg/kg), and total xylenes (150 mg/kg) detections in sampleB-8-8.5' exceed the San Francisco Bay Regional Water Quality Control Board's (RWQCB's) environmental screening levels (ESLs) for shallow soil where groundwater is not a source of drinking water. Based on the grab groundwater data from the same boring, discussed below, these soil concentrations do not appear to be affecting groundwater.

Groundwater grab samples from shallow groundwater (9 to 13 fbg) contained a single concentration of TPHg (240 micrograms per liter [µg/l] in sample B-7 [GW9-13']) which exceeds ESLs. The RWQCB guidance[1] advises that "TPH ESLs must be used in conjunction with ESLs for related chemicals (e.g. BTEX, polynuclear aromatic hydrocarbons, oxidizers, etc.)." In this case, BTEX would be the appropriate related chemicals, and no BTEX concentrations exceed ESLs in shallow groundwater.

Grab groundwater samples from deeper groundwater (31 to 34 fbg) contained a single TPHg concentration (470 µg/l in sample MW-4[GW@31-34']), which exceeds the ESL for groundwater where groundwater is not a source of drinking water. As stated above, the detection of TPHg without BTEX likely does not present a health risk, and the five deeper groundwater grab samples adequately define the vertical extent of impacted groundwater.

Soil vapor samples from soil vapor probe SVP-5 contained concentrations of TPHg (up to 11,000,000 µg/m^3), benzene (up to 12,000 µg/m^3), and ethylbenzene (up to 23,000 µg/m^3) which exceed ESLs. TPHg and BTEX concentrations in soil vapor samples collected from the other three soil vapor probes (SVP-1, SVP-2, and SVP-3) were all below ESLs. Since two of the other soil vapor probes (SVP-2 and SVP-3) are closer to the existing building and in the area of SVP-5, it is unlikely that the soil vapor concentrations are affecting indoor air. Soil vapor p[1]robe SVP-4 could not be sampled due to a blockage.

---

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]

8.0 RECOMMENDATIONS

Concentrations of TPHg, ethylbenzene, and xylenes detected in soil sample B-8-8.5' (without measurable benzene) are similar to results from previous investigations (samples MW-1-8.5 and EB-1-10.5). Comparison of these soil data with available groundwater data indicates that soil and groundwater impacts are not well correlated, suggesting that impacted soil does not pose a significant risk to groundwater. With current site use, these soils do not present a human health risk through direct exposure. Therefore, no additional soil investigation is recommended.

Results from shallow groundwater grab samples collected from borings B-5, B-7, and B-8 suggest that no additional monitoring wells are warranted in this area, as discussed above. In order to more fully characterize groundwater conditions at the site, CRA recommends conducting a groundwater monitoring program including all eight site wells for at least a full hydrologic cycle (approximately one year). We propose sampling the wells quarterly and analyzing the samples for TPHg and BTEX by EPA Method 8260B. We are not recommending fuel oxygenate analyses because they have not been detected at the site, and the gasoline station operations at the site ceased prior to the use of MTBE in gasoline.

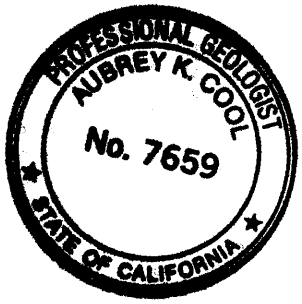
As discussed above, the five deeper groundwater grab samples adequately define the vertical extent of impacted groundwater. No additional deeper groundwater investigation is recommended.

Based on the initial soil vapor concentrations detected in SVP-5, we recommend re-sampling SVP-5 following the screening technique detailed in Appendix E. We also propose a second attempt at obtaining a sample from soil vapor probe SVP-4.

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

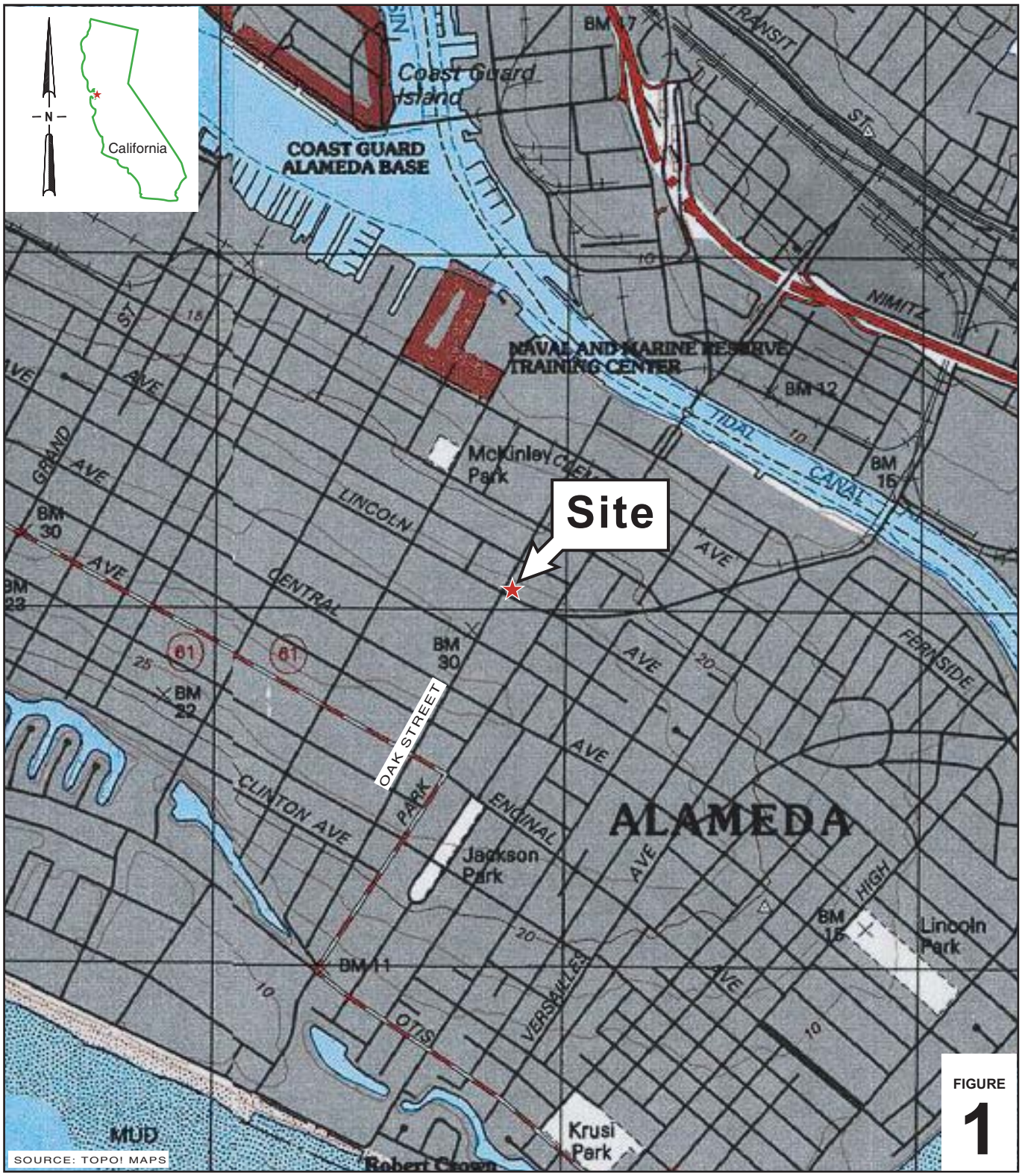
Peter Schaefer, CEG, CHG

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

04/01/09

Site Plan

EXPLANATION

- SVP-1 — Soil vapor probe location (CRA, 2/09)
- B-5 — Geoprobe boring location (CRA, 2/09)
- MW-1 — Monitoring well location
- 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

OAK STREET

LINCOLN AVENUE

Former 76 Station

Former Shell Station
2301-2307 Lincoln Avenue

Alameda County Police Dept.

Alameda Free Library

Commercial Building

Laundorland Building

7-11 Store Building

Former Building (circa 1950)[1]

Former Gasoline & Oil USTs (installed in 1920s)

Former Tire Recapping Facility (circa 1950)[1]

Former Oil Sump (circa 1982)[2]

Former Station Building (circa 1982)[2]

Former Dispensers (circa 1982)[2]

Former USTs (installed in 1970s)

Approximate Property Line

Sidewalk, Planter, Parking, Overhang

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

SVP-1, SVP-2, SVP-3, SVP-4, SVP-5

B-5, B-7, B-8

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

N

0 15 30 60

Scale (ft)

Basemap modified from drawing provided by Geomatrix

FIGURE **2**

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

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 SITE PLAN.DWG

04/03/09

Soil Concentrations Map

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	Benzene (mg/kg)
MW-5-5'	2/24/2009	5	<0.50	<0.0050
MW-5-8'	2/24/2009	8	<0.50	<0.0050

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	Benzene (mg/kg)
MW-6-5'	2/26/2009	5	<0.50	<0.0050
MW-6-8'	2/26/2009	8	<0.50	<0.0050

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	Benzene (mg/kg)
MW-4-5'	2/25/2009	5	<0.50	<0.0050
MW-4-8'	2/25/2009	8	<0.50	<0.0050

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	Benzene (mg/kg)
B-7-5.5'	2/27/2009	5.5	<0.50	<0.0050
B-7-8.5'	2/27/2009	8.5	87	<0.50

EXPLANATION

- SVP-1 — Soil vapor probe location (CRA, 2/09)
- B-5 — Geoprobe boring location (CRA, 2/09)
- MW-1 — Monitoring well location
- 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	Depth (fbg)	TPHg (mg/kg)	Benzene (mg/kg)
MW-4-5'	2/25/2009	5	<0.50	<0.0050
MW-4-8'	2/25/2009	8	<0.50	<0.0050

Soil sample ID, date, feet below grade (fbg), and TPHg and benzene concentrations, in milligrams per kilogram (mg/kg)
<X = Not detected at reporting limit X

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	Benzene (mg/kg)
MW-7-5'	2/25/2009	5	<0.50	<0.0050
MW-7-8'	2/25/2009	8	<0.50	<0.0050

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	Benzene (mg/kg)
MW-8-5'	2/23/2009	5	<0.50	<0.0050
MW-8-8'	2/23/2009	8	<0.50	<0.0050

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	Benzene (mg/kg)
B-5-5.5'	2/27/2009	5.5	<0.50	<0.0050
B-5-8.5'	2/27/2009	8.5	<0.50	<0.0050

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	Benzene (mg/kg)
B-8-5.5'	2/27/2009	5.5	<0.50	<0.0050
B-8-8.5'	2/27/2009	8.5	**7,900**	<20

OAK STREET

LINCOLN AVENUE

Former 76 Station

Former Shell Station
2301-2307 Lincoln Avenue

Former Gasoline & Oil USTs (installed in 1920s)

Former Building (circa 1950)[1]

Former Tire Recapping Facility (circa 1950)[1]

Former Building (circa 1950)[1]

7-11 Store Building

Former Oil Sump (circa 1982)[2]

Former Station Building (circa 1982)[2]

Laundorland Building

Commercial Building

Former Dispensers (circa 1982)[2]

Former USTs (installed in 1970s)

Approximate Property Line

Overhang

Sidewalk

Planter

Parking

Alameda County Police Dept.

Alameda Free Library

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

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

SVP-1 SVP-2 SVP-3 SVP-4 SVP-5

B-5 B-7 B-8

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

N

0 15 30 60

Scale (ft)

Basemap modified from drawing provided by Geomatrix

FIGURE

3

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

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

04/01/09

Grab Groundwater Concentrations Map

EXPLANATION

- SVP-1 — Soil vapor probe location (CRA, 2/09)
- B-5 — Geoprobe boring location (CRA, 2/09)
- MW-1 — Monitoring well location
- 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	Date	TPHg (µg/l)	Benzene (µg/l)
B-5 (GW@9-13')	2/27/2009	<50	<0.50

Grab groundwater sample ID and date and TPHg and benzene concentrations, in micrograms per liter (µg/l)
<X = Not detected at reporting limit X
NA = Not analyzed

OAK STREET

LINCOLN AVENUE

Former 76 Station

Sample ID	Date	TPHg (µg/l)	Benzene (µg/l)
MW-5 (GW@31-34')	2/24/2009	<50	<0.50

Sample ID	Date	TPHg (µg/l)	Benzene (µg/l)
MW-6 (GW@31-34')	2/26/2009	<50	<0.50

Sample ID	Date	TPHg (µg/l)	Benzene (µg/l)
MW-4 (GW@31-34')	2/25/2009	**470**	2.0

Sample ID	Date	TPHg (µg/l)	Benzene (µg/l)
MW-7 (GW@31-34')	2/25/2009	<50	<0.50

Former Shell Station
2301-2307 Lincoln Avenue

Sample ID	Date	TPHg (µg/l)	Benzene (µg/l)
B-5 (GW@9-13')	2/27/2009	<50	<0.50

Sample ID	Date	TPHg (µg/l)	Benzene (µg/l)
B-8 (GW@9-13')	2/27/2009	60	<0.50

Sample ID	Date	TPHg (µg/l)	Benzene (µg/l)
MW-8 (GW@31-34')	2/23/2009	94	<0.50

Sample ID	Date	TPHg (µg/l)	Benzene (µg/l)
B-7 (GW@9-13')	2/27/2009	**240**	<0.50

Former Building (circa 1950)[1]
Former Gasoline & Oil USTs (installed in 1920s)
Former Tire Recapping Facility (circa 1950)[1]
Former Building (circa 1950)[1]
7-11 Store Building
Former Oil Sump (circa 1982)[2]
Former Station Building (circa 1982)[2]
Laundorland Building
Commercial Building
Former Dispensers (circa 1982)[2]
Former USTs (installed in 1970s)
Approximate Property Line
Overhang
Planter
Parking
Sidewalk
Alameda County Police Dept.
Alameda Free Library

SB-1, SB-2, SB-3, SB-4, SB-5, SB-6, MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, SVP-1, SVP-2, SVP-3, SVP-4, SVP-5, B-5, B-7, B-8, EB-1, EB-2, EB-3, EB-4, EB-5, EB-6, EB-8, EB-9, EB-10, EB-11

N

0 15 30 60
Scale (ft)

Basemap modified from drawing provided by Geomatrix

FIGURE
4

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

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 SITE PLAN (GRAB GW DATA).DWG

04/01/09

Soil Vapor Concentrations Map

EXPLANATION

- SVP-1 — Soil vapor probe location (CRA, 2/09)
- B-5 — Geoprobe boring location (CRA, 2/09)
- MW-1 — Monitoring well location
- 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	TPHg ($\mu g/m^3$)	Benzene ($\mu g/m^3$)
SVP-1	3/11/2009	<8,900	5.4

Soil vapor sample ID and date and TPHg and benzene concentrations, in micrograms per cubic meter (µg/m³)
<X = Not detected at reporting limit X

Sample ID	Sample Date	TPHg ($\mu g/m^3$)	Benzene ($\mu g/m^3$)
SVP-1	3/11/2009	<8,900	5.4

Sample ID	Sample Date	TPHg ($\mu g/m^3$)	Benzene ($\mu g/m^3$)
SVP-2	3/11/2009	<9,200	7.3

Sample ID	Sample Date	TPHg ($\mu g/m^3$)	Benzene ($\mu g/m^3$)
SVP-3	3/11/2009	<11,000	5.5

Sample ID	Sample Date	TPHg ($\mu g/m^3$)	Benzene ($\mu g/m^3$)
SVP-5	3/11/2009	**10,000,000**	**11,000**

OAK STREET

LINCOLN AVENUE

Former 76 Station

Former Shell Station
2301-2307 Lincoln Avenue

Former Gasoline & Oil USTs (installed in 1920s)

Former Building (circa 1950)[1]

Former Tire Recapping Facility (circa 1950)[1]

Former Building (circa 1950)[1]

7-11 Store Building

Former Oil Sump (circa 1982)[2]

Former Station Building (circa 1982)[2]

Laundorland Building

Commercial Building

Former Dispensers (circa 1982)[2]

Former USTs (installed in 1970s)

Approximate Property Line

Overhang

Sidewalk

Planter

Parking

Alameda County Police Dept.

Alameda Free Library

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

SVP-1 SVP-2 SVP-3 SVP-4 SVP-5

B-5 B-7 B-8

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

N

0 15 30 60

Scale (ft)

Basemap modified from drawing provided by Geomatrix

FIGURE **5**

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

CONESTOGA-ROVERS & ASSOCIATES

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

TABLES

TABLE 1

SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVE., ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*
B-5-5.5'	2/27/2009	5.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
B-5-8.5'	2/27/2009	8.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
B-7-5.5'	2/27/2009	5.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
B-7-8.5'	2/27/2009	8.5	87	<0.50	<0.50	<0.50	<0.50	<0.50
B-8-5.5'	2/27/2009	5.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
B-8-8.5'	2/27/2009	8.5	**7,900**	<20	<20	**120**	**150**	<20
MW-4-5'	2/25/2009	5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-4-8'	2/25/2009	8	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-5-5'	2/24/2009	5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-5-8'	2/24/2009	8	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-6-5'	2/26/2009	5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-6-8'	2/26/2009	8	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7-5'	2/25/2009	5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7-8'	2/25/2009	8	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-8-5'	2/23/2009	5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-8-8'	2/23/2009	8	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Shallow Soil (≤10 fbg) ESL[a]:			180	0.27	9.3	4.7	11	8.4

Notes:

All results in miligrams per kilograms (mg/kg) unless otherwise indicated.
All analytes analyzed by EPA Method 8260B.
TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tertiary-butyl ether
fbg = feet below grade
<x = Not detected at reporting limit x
ESL = Environmental screening level

a = San Francisco Bay Regional Water Quality Control Board commercial/industrial Environmental Screening Level for soil where groundwater is not a source of drinking water (Table B 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]).

TABLE 2

GRAB GROUNDWATER ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVE., ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*
B-5 (GW@9-13')	2/27/2009	9 to 13	<50	<0.50	<1.0	<1.0	<1.0	<1.0
B-7 (GW@9-13')	2/27/2009	9 to 13	**240**	<0.50	<1.0	5.6	17	<1.0
B-8 (GW@9-13')	2/27/2009	9 to 13	60	<0.50	<1.0	2.5	2.6	<1.0
MW-4 (GW@31-34')	2/25/2009	31 to 34	**470**	2.0	<1.0	14	16	<1.0
MW-5 (GW@31-34')	2/24/2009	31 to 34	<50	<0.50	<1.0	<1.0	<1.0	<1.0
MW-6 (GW@31-34')	2/26/2009	31 to 34	<50	<0.50	<1.0	<1.0	<1.0	<1.0
MW-7 (GW@31-34')	2/25/2009	31 to 34	<50	<0.50	<1.0	<1.0	<1.0	<1.0
MW-8 (GW@31-34')	2/23/2009	31 to 34	94	<0.50	<1.0	<1.0	<1.0	<1.0
Groundwater (≤10 fbg) ESL [a] :			210	46	130	43	100	1,800

Notes:

All results in µg/l unless otherwise indicated.
All analytes analyzed by EPA Method 8260B.
TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tertiary-butyl ether
<x = Not detected at reporting limit x
ESL = Environmental screening level

a = San Francisco Bay Regional Water Quality Control Board Environmental Screening Level for groundwater where groundwater is not a source of drinking water (Table B 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]).

TABLE 3

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

Sample ID	*Date*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*MTBE*	*Butane*	*Isobutane*	*Propane*
SVP-1	3/11/2009	<8,900	5.4	<2.9	<3.4	<13	<11	<18	110	<42
SVP-2	3/11/2009	<9,200	7.3	<3.0	<3.5	<14	<12	<19	<19	<43
SVP-3	3/11/2009	<11,000	5.5	<3.6	<4.2	<17	<14	<23	<23	<52
SVP-5	3/11/2009	**10,000,000**	**11,000**	1,800	**21,000**	<5,900	<4,900	<8,100	<8,100	<18,000
SVP-5 DUP[a]	3/11/2009	**11,000,000**	**12,000**	1,600	**23,000**	<5,500	<4,500	<7,500	<7,500	<17,000
Residential Land Use ESL[b]:		***10,000***	***84***	***63,000***	***980***	***21,000***	***9,400***	***NA***	***NA***	***NA***
Commercial/Industrial Land Use ESLs[b]:		***29,000***	***280***	***180,000***	***3,300***	***58,000***	***31,000***	***NA***	***NA***	***NA***

Notes:

All results in micrograms per cubic meter ($\mu g/m^3$) unless otherwise indicated.
TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method TO-3M
Benzene, toluene, ethylbenzene and total xylenes by modified EPA Method TO-15
MTBE = Methyl tertiary-butyl ether by modified EPA Method TO-15
Butane, isobutane, and propane by modified EPA Method TO-15
<x = Not detected at reporting limit x
ESL = Environmental screening level
NA = No applicable ESL

a = Field duplicate
b = 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

SITE HISTORY

SITE HISTORY

1999 Phase II Site Investigation: Basics Environmental (Basics) drilled six borings (SB-1 through SB-6, Figure 2) in the western portion of the site. Single soil samples were collected from all of the borings at 5 or 7.5 feet below grade (fbg) and grab groundwater samples were obtained from five of the borings (all except SB-5). Benzene and methyl tertiary-butyl ether (MTBE) were not detected in any of the samples. Analyses of the soil sample from boring SB-3 at 7.5 fbg showed concentrations of 40 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and 0.012 mg/kg ethylbenzene. Analyses of the grab groundwater sample from SB-3 showed concentrations of up to 4,500 micrograms per liter (µg/l) TPHg, 4.4 µg/l toluene, 2.7 µg/l ethylbenzene, 4.0 µg/l xylenes, 10 µg/l n-butylbenzene, 14 µg/l sec-butylbenzene, 45 µg/l isopropyl benzene, 60 µg/l n-propylbenzene, and 26 µg/l vinyl acetate. These results were presented in Basics' August 12, 1999 *Limited Phase II Environmental Site Investigation* report.

2000 Site Assessment: Toxichem Management Systems, Inc. (Toxichem) conducted a site assessment which included a review of Basics' investigation, aerial photographs, Sanborn maps, and agency files. The site assessment is presented in Toxichem's May 1, 2000 *Site Assessment Report.*

2007 Site Investigation: Geomatrix installed three groundwater monitoring wells (MW-1 through MW-3, Figure 2) in the western former underground storage tanks (USTs originally installed in the 1920's) area and drilled ten exploratory borings (EB-1 through EB-6 and EB-8 through EB-11, Figure 2) in the area of the eastern former USTs (USTs originally installed in the 1970's) and fuel dispensers. No toluene, fuel oxygenates, or lead scavengers were detected in any of the soil samples. No petroleum hydrocabons were detected in samples collected from 1.5 to 6.5 fbg. Soil samples collected from 8.5 to 14.0 fbg showed concentrations of up to 1,600 mg/kg TPHg, 0.99 mg/kg benzene, 100 mg/kg ethylbenzene, 1.1 mg/kg xylenes, and 21 µg/kg lead. Sample EB-10-2.0 contained a concentration of 550 mg/kg lead. Grab groundwater samples collected from the wells and exploratory borings EB-1 and EB-4 contained concentrations of up to 7,000 µg/l TPHg, 980 µg/l benzene, 490 µg/l ethylbenzene, 11 µg/l toluene, and 19 µg/l xylenes. Groundwater was gauged at 8.37 to 9.26 fbg and flow direction was calculated to be to the east-northeast. These results were presented in Geomatrix's December 2007 *Subsurface Investigation Summary Report.*

APPENDIX B

PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

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

Application Approved on: 02/04/2009 By jamesy

Permit Numbers: W2009-0108 to W2009-0120
Permits Valid from 02/17/2009 to 02/27/2009

Application Id: 1233616369739
City of Project Site: Alameda
Site Location: 2301-2307 Lincoln Ave,
Alameda, CA
All work is planned within the strip mall parking area.
Project Start Date: 02/17/2009
Completion Date: 02/27/2009
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Applicant: Conestoga-Rovers & Associates - Erin Reinhart
5900 Hollis Street,, Suite A, Emeryville, CA 94508
Phone: 510-420-3372

Property Owner: Shell/ Sabanc Sebanc Trustees
2805 Ralston Ave, Hillsborough, CA 94010
Phone: --

Client: Shell Shell Oil Products US
20945 S. Wilmington Ave, Carson, CA 90810
Phone: --

Total Due: $4370.00
Receipt Number: WR2009-0042 **Total Amount Paid:** $4370.00
Payer Name : Conestoga-Rovers & Paid By: CHECK **PAID IN FULL**
Associates

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 7 Wells
Driller: Gregg Drilling & Testing - Lic #: 485165 - Method: hstem **Work Total: $2415.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009-0108	02/04/2009	05/18/2009	MW-10	10.00 in.	4.00 in.	4.00 ft	34.00 ft
W2009-0109	02/04/2009	05/18/2009	MW-4	10.00 in.	4.00 in.	4.00 ft	34.00 ft
W2009-0110	02/04/2009	05/18/2009	MW-5	10.00 in.	4.00 in.	4.00 ft	34.00 ft
W2009-0111	02/04/2009	05/18/2009	MW-6	10.00 in.	4.00 in.	4.00 ft	34.00 ft
W2009-0112	02/04/2009	05/18/2009	MW-7	10.00 in.	4.00 in.	4.00 ft	34.00 ft
W2009-0113	02/04/2009	05/18/2009	MW-8	10.00 in.	4.00 in.	4.00 ft	34.00 ft
W2009-0114	02/04/2009	05/18/2009	MW-9	10.00 in.	4.00 in.	4.00 ft	34.00 ft

Specific Work Permit Conditions

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

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no

case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

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

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

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

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

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

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

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

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

Well Construction-Vapor Monitoring Well-Vapor Monitoring Well - 5 Wells
Driller: Gregg Drilling & Testing - Lic #: 485165 - Method: Hand **Work Total: $1725.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009-0115	02/04/2009	05/18/2009	SVP-1	2.50 in.	0.25 in.	1.50 ft	5.50 ft
W2009-0116	02/04/2009	05/18/2009	SVP-2	2.50 in.	0.25 in.	1.50 ft	5.50 ft
W2009-0117	02/04/2009	05/18/2009	SVP-3	2.50 in.	0.25 in.	1.50 ft	5.50 ft
W2009-0118	02/04/2009	05/18/2009	SVP-4	2.50 in.	0.25 in.	1.50 ft	5.50 ft
W2009-0119	02/04/2009	05/18/2009	SVP-5	2.50 in.	0.25 in.	1.50 ft	5.50 ft

Alameda County Public Works Agency - Water Resources Well Permit

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

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

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

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

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

6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

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

8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

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

Borehole(s) for Investigation-Environmental/Monitorinig Study - 3 Boreholes
Driller: Gregg Drilling & Testing - Lic #: 485165 - Method: DP **Work Total: $230.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009-0120	02/04/2009	05/18/2009	3	2.50 in.	13.50 ft

Specific Work Permit Conditions

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

Alameda County Public Works Agency - Water Resources Well Permit

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

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

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

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

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

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

APPENDIX C

BORING LOGS

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	B-5
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	27-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Direct-push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVALS**	NA
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	9.00 fbg ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT.	0.3	
							Silty SAND with gravel (SM); very dark brown (7.5YR 2.5/3); dry; 20% silt, 60% fine to medium sand, 20% fine gravel.		
0.0							@ 3' - **Silty SAND (SM)**; 25% silt, 65% fine to medium sand; 10% fine gravel.		
				5	SM				
0.0		B-5-5 .5'					@ 5' - dark yellowish brown (10YR 4/6); 20% silt, 80% fine to medium sand.		
0.0									Portland Type I/II
							@ 7' - moist.		
0.0		B-5-8 .5'					▽	9.0	
		B-5 GW@9- 13'		10			@ 9-13' -Groundwater grab sample collected. No lithologic log.		
								13.0	Bottom of Boring @ 13 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204--\10648E9~1\060204-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	B-7
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	19-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	27-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Direct-push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVALS**	NA
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	9.00 fbg ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT.	0.3	
							Silty SAND (SM); very dark brown (7.5YR 2.5/3); dry; 25% silt, 75% fine to medium sand.		
0.0									
				5	SM				
0.0		B-7-5 .5'					@ 5' - brown (7.5YR 4/4); 20% silt, 80% fine to medium sand.		
0.0									Portland Type I/II
0.0							@ 7' - moist.		
13.0							@ 8' - very dark grayish brown (10YR 3/2).		
1,487		B-7-8 .5'					▽	9.0	
							@ 9-13' -Groundwater grab sample collected. No lithologic log.		
		B-7 GW@9- 13'		10					
								13.0	Bottom of Boring @ 13 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602-\060204~1\0648E9~1\060204-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	B-8
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	27-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Direct-push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVALS**	NA
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	9.00 fbg ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT.	0.3	
							Silty SAND (SM); very dark brown (7.5YR 2.5/3); dry; 25% silt, 75% fine to medium sand.		
				5	SM				
0.0		B-8-5 .5'					@ 5' - dark yellowish brown (10YR 4/4); 20% silt, 80% fine to medium sand.		
3.3									Portland Type I/II
6.57							@ 7' - dark greenish gray (5GY 4/1); moist.		
1,156		B-8-8 .5'							
								9.0 ▽	
		B-8 (GW@9 -13')		10			@ 9-13' -Groundwater grab sample collected. No lithologic log.		
								13.0	Bottom of Boring @ 13 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204--\10648E9--\10602O4-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-4
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	25-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Direct-push & hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10", 2" below 18 fbg.	**SCREENED INTERVALS**	8 to 18 fbg
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	9.00 fbg ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	Portland Type I/II
0.0							**Silty SAND with gravel (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 45% fine to medium sand, 30% gravel; fill.		4" diam., Schedule 40 PVC
							@ 3' - **Silty SAND (SM)**; 25% silt, 65% fine to medium sand, 10% gravel.		Bentonite Seal
		MW-4- 5'		5			@ 5'- brown (10YR 4/3), 35% silt, 65% fine to medium sand.		
							@ 7'- 25% silt, 75% sand.		Monterey Sand #2/12
3.6		MW-4- 8'					@ 8' - dark greenish gray (5GY 4/1); moist.		
							@ 9'- wet. ▽		
454				10	SM				
							@ 11.5' - light olive brown (2.5Y 5/4); 30% silt, 70% fine sand.		
4.6									4"-diam., 0.020" Slotted Schedule 40 PVC
2.1									
1.7				15					
							@ 16' - 25% silt, 75% fine sand.		
1.4									
0.0							@ 19' - 20% silt, 80% fine to medium sand.		
				20				20.0	

WELL LOG (PID) I:\SHELL\6-CHARS\0602-\060204-\10648E9-\1060204-GINT.GPJ DEFAULT.GDT 4/1/09

Continued Next Page

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-4
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	25-Feb-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0							@ 21' - 25% silt, 75% fine to medium sand.		
0.0									
0.0							@ 24' - 20% silt, 80% fine to medium sand.		
0.0				25	SM		@ 25' - olive brown (2.5Y 4/3); 20% silt, 80% fine sand.		Bentonite Seal
0.0							@ 28' - light olive brown (2.5Y 5/3).		
0.0							@ 29' - 30% silt, 70% fine sand.		
0.0				30			@ 30' - light olive brown (2.5Y 5/3).	31.0	
		MW-4 GW@31 -34'					@ 31-34' -Groundwater grab sample collected. No lithologic log.	34.0	Bottom of Boring @ 34 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--1060204--110648E9--1060204-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-5
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	24-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Direct-push & hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10", 2" below 18 fbg.	**SCREENED INTERVALS**	8 to 18 fbg
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	10.00 fbg ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	Portland Type I/II
0.0							**Silty SAND (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 75% fine to medium sand.		4" diam., Schedule 40 PVC
0.0		MW-5- 5'		5			@ 5' - strong brown (7.5YR 4/6); 30% silt, 70% fine to medium sand.		Bentonite Seal
0.0		MW-5- 8'					@ 8' - moist.		Monterey Sand #2/12
							@ 9- wet; 25% silt, 75% fine to medium sand.		
0.0				10	SM		@ 10' - brown (7.5YR 4/4); 30% silt, 70% fine sand. ▽		
0.0									
0.0									4"-diam., 0.020" Slotted Schedule 40 PVC
							@ 14' - yellowish brown (10YR 5/4);		
0.0				15					
0.0									
0.0									
				20				20.0	

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204--\10648E9--\1060204-GINT.GPJ DEFAULT.GDT 4/1/09

Continued Next Page

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-5
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	24-Feb-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0									
0.0							@ 23' - 30% silt, 70% fine to medium sand.		
0.0				25					
0.0					SM				Bentonite Seal
0.0							@ 28' - 40% silt, 60% fine sand.		
0.0							@ 29' - brown (10YR 4/3); 20% silt, 80% fine to medium sand.		
0.0				30			@ 30' - brown (10YR 5/3).		
		MW-5 GW@31 -34'					@ 31-34' -Groundwater grab sample collected. No lithologic log.	31.0	
								34.0	Bottom of Boring @ 34 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--1060204--110648E9--1060204-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-6
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	19-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	21-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Direct-push & hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10", 2" below 18 fbg.	**SCREENED INTERVALS**	8 to 18 fbg
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	9.00 fbg ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	Portland Type I/II
0.0							**Silty SAND (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 75% fine to medium sand.		4" diam., Schedule 40 PVC
0.0		MW-6- 5'		5			@ 5' - yellowish brown (10YR 5/4).		Bentonite Seal
							@ 7' - moist.		Monterey Sand #2/12
0.0		MW-6- 8'							
0.0							@ 9' - wet. ▽		
0.0				10	SM		@ 10' - 20% silt, 80% fine to medium sand.		
0.0									4"-diam., 0.020" Slotted Schedule 40 PVC
0.0							@ 14' - 20% silt, 80% fine sand.		
0.0				15			@ 15' - 20% silt, 80% fine to medium sand.		
0.0									
0.0				20				20.0	

Continued Next Page

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-6
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	19-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	21-Feb-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0							@ 20' - dark yellowish brown (10YR 4/4); 25% silt, 75% fine to medium sand.		
0.0									
0.0									
0.0				25	SM		@ 25' - light olive brown (2.5Y 5/4); 25% silt, 75% fine sand.		Bentonite Seal
							@ 27' - no recovery.		
0.0							@ 29' -dark grayish brown (2.5Y 4/2); 20% silt, 80% fine to medium sand.		
0.0				30					
		MW-6 GW@31 -34'					@ 31-34' -Groundwater grab sample collected. No lithologic log.	31.0	
								34.0	Bottom of Boring @ 34 fbg

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-7
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	25-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Direct-push & hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10", 2" below 18 fbg.	**SCREENED INTERVALS**	8 to 18 fbg
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	10.00 fbg ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	
0.0							**Silty SAND with gravel (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 45% fine to medium sand, 30% gravel; fill with asphalt pieces.		Portland Type I/II
0.0		MW-7- 5'		5			@ 3' - **Silty SAND (SM)**; very dark brown (7.5YR 2.5/3); 25% silt, 65% fine to medium sand, 10% fine gravel.		4" diam., Schedule 40 PVC
0.0		MW-7- 8'					@ 5' - dark yellowish brown (10YR 4/4); 20% silt, 80% fine to medium sand.		Bentonite Seal
0.0				10	SM		@ 8' - moist.		Monterey Sand #2/12
0.0							@ 10' - light olive brown (2.5Y 5/4); wet; 30% silt, 70% fine to medium sand. ▽		
0.0				15			@ 15' - 30% silt, 70% fine sand.		4"-diam., 0.020" Slotted Schedule 40 PVC
0.0							@ 17' - dark yellowish brown (10YR 4/6); 20% silt, 80% fine to medium sand.		
0.0				20				20.0	

Continued Next Page

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-7
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	25-Feb-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0									
0.0							@ 22' - light olive brown (2.5Y 5/3).		
0.0							@ 24' - light olive brown (2.5Y 5/4).		
0.0				25	SM				Bentonite Seal
0.0									
0.0							@ 29' - olive gray (5Y 5/2); 30% silt, 70% fine sand.		
0.0				30			@ 30' - olive gray (5Y 4/2); 20% silt, 80% fine to medium sand.		
		MW-7 GW@31 -34'					@ 31-34' -Groundwater grab sample collected. No lithologic log.	31.0	
								34.0	Bottom of Boring @ 34 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204~1\0648E9~1\060204-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-8
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	23-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Direct-push & hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10", 2" below 18 fbg.	**SCREENED INTERVALS**	8 to 18 fbg
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	9.00 fbg ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	
							Silty SAND (SM); very dark brown (7.5YR 2.5/3); dry; 25% silt, 65% fine to medium sand, 10% fine gravel.		
0.0									Portland Type I/II
									4" diam., Schedule 40 PVC
0.0		MW-8- 5'		5			@ 5' - brown (10YR 4/3).		Bentonite Seal
							@ 6' - 30% silt, 70% fine sand.		
0.4							@ 7' - moist.		Monterey Sand #2/12
0.0		MW-8- 8'							
							@ 9'- wet. ▽		
0.0				10	SM		@ 10' - strong brown (7.5YR 5/6).		
									4"-diam., 0.020" Slotted Schedule 40 PVC
0.0									
1.3				15			@ 15' - 30% silt, 70% fine to medium sand.		
							@ 17' - brown (7.5YR 4/2).		
0.0									
				20				20.0	

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204~1\0648E9~1\060204-GINT.GPJ DEFAULT.GDT 4/1/09

Continued Next Page

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-8
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	23-Feb-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.4							@ 20' - olive brown (2.5Y 4/4).		
0.0									
0.0				25	SM		@ 25' - 15% silt, 85% fine to medium sand.		Bentonite Seal
							@ 27' - dark gray (2.5Y 4/1); 45% silt, 55% fine to medium sand.		
0.0							@ 28' - 30% silt, 70% fine to medium sand.		
0.0							@ 29' - olive brown (2.5Y 4/3).		
0.0				30			@ 30' - brown (10YR 4/3); 20% silt, 80% fine to medium sand.		
		MW-8 GW@31 -34'					@ 31-34' -Groundwater grab sample collected. No lithologic log.	31.0	
								34.0	Bottom of Boring @ 34 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--1060204--110648E9~1\060204-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	SVP-1
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	19-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	19-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Air-knife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	4.9 to 5 fbg
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0				5	SM		**ASPHALT** **Silty SAND (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 75% fine to medium sand.	0.3 5.0	Portland Type I/II Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204~1\0648E9~1\060204-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	SVP-2
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	19-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	19-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Air-knife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	4.9 to 5 fbg
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0				5	SM		**ASPHALT** **Silty SAND (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 65% fine to medium sand, 10% fine gravel.	0.3 5.0	Portland Type I/II Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	SVP-3
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	18-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Air-knife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	4.9 to 5 fbg
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0				5	SM		**ASPHALT** **Silty SAND with gravel (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 45% fine to medium sand, 30% gravel; fill, asphalt pieces 1-3", garbage. @ 2' - **Silty SAND (SM)**; 25% silt, 65% fine to medium sand, 10% fine gravel.	0.3 5.0	Portland Type I/II Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204-110648E9-1\060204-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	SVP-4
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	18-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Air-knife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	4.9 to 5 fbg
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0				5	SM		**ASPHALT** **Silty SAND (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 65% fine to medium sand, 10% fine gravel.	0.3 5.0	Portland Type I/II Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--1060204--110648E9--1\060204-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	SVP-5
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	18-Feb-09
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Air-knife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	4.9 to 5 fbg
LOGGED BY	E. Reinhart	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0				5	SM		**ASPHALT** **Silty SAND with gravel (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 45% fine to medium sand, 30% gravel; fill. @ 1' - **Silty SAND (SM)**; 25% silt, 65% fine to medium sand, 10% fine gravel.	0.3 5.0	Portland Type I/II Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--060204~110648E9~1060204-GINT.GPJ DEFAULT.GDT 4/1/09

APPENDIX D

CERTIFIED ANALYTICAL REPORTS

Calscience Environmental Laboratories, Inc.

March 09, 2009

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

Subject: **Calscience Work Order No.: 09-02-2186**
Client Reference: 2301-2307 Lincol Ave, Alameda

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/25/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/25/09
Work Order No: 09-02-2186
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: mg/kg

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8-5'	**09-02-2186-1-A**	**02/23/09 09:48**	**Solid**	**GC/MS UU**	**03/05/09**	**03/05/09 18:36**	**090305L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	115	73-139			1,2-Dichloroethane-d4	122	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	87	71-113		
Toluene-d8-TPPH	102	88-112							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8-8'	**09-02-2186-2-A**	**02/23/09 09:51**	**Solid**	**GC/MS UU**	**03/05/09**	**03/05/09 19:00**	**090305L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	73-139			1,2-Dichloroethane-d4	131	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	88	71-113		
Toluene-d8-TPPH	102	88-112							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5-5'	**09-02-2186-3-A**	**02/24/09 09:30**	**Solid**	**GC/MS UU**	**03/05/09**	**03/05/09 19:25**	**090305L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	73-139			1,2-Dichloroethane-d4	132	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	87	71-113		
Toluene-d8-TPPH	102	88-112							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	02/25/09
5900 Hollis Street, Suite A		Work Order No:	09-02-2186
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5-8'	**09-02-2186-4-A**	**02/24/09 09:32**	**Solid**	**GC/MS UU**	**03/05/09**	**03/05/09 19:49**	**090305L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	73-139			1,2-Dichloroethane-d4	132	73-145		
Toluene-d8	102	90-108			1,4-Bromofluorobenzene	88	71-113		
Toluene-d8-TPPH	103	88-112							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-798-308**	**N/A**	**Solid**	**GC/MS UU**	**03/05/09**	**03/05/09 12:51**	**090305L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	108	73-139			1,2-Dichloroethane-d4	112	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	87	71-113		
Toluene-d8-TPPH	100	88-112							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/25/09
Work Order No: 09-02-2186
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2191-5	**Solid**	**GC/MS UU**	**03/05/09**	**03/05/09**	**090305S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	100	79-115	2	0-13	
Carbon Tetrachloride	103	103	55-139	0	0-15	
Chlorobenzene	100	100	79-115	0	0-17	
1,2-Dibromoethane	103	100	70-130	3	0-30	
1,2-Dichlorobenzene	99	98	63-123	1	0-23	
1,1-Dichloroethene	105	105	69-123	0	0-16	
Ethylbenzene	106	107	70-130	1	0-30	
Toluene	102	101	79-115	1	0-15	
Trichloroethene	99	98	66-144	1	0-14	
Vinyl Chloride	98	99	60-126	1	0-14	
Methyl-t-Butyl Ether (MTBE)	100	98	68-128	2	0-14	
Tert-Butyl Alcohol (TBA)	90	86	44-134	4	0-37	
Diisopropyl Ether (DIPE)	114	112	75-123	2	0-12	
Ethyl-t-Butyl Ether (ETBE)	112	111	75-117	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	110	107	79-115	3	0-12	
Ethanol	87	85	42-138	3	0-28	

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: 09-02-2186
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-308	**Solid**	**GC/MS UU**	**03/05/09**	**03/05/09**	**090305L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	100	99	84-114	79-119	1	0-7	
Carbon Tetrachloride	103	103	66-132	55-143	1	0-12	
Chlorobenzene	101	100	87-111	83-115	1	0-7	
1,2-Dibromoethane	104	102	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	101	100	79-115	73-121	1	0-8	
1,1-Dichloroethene	105	105	73-121	65-129	1	0-12	
Ethylbenzene	106	105	80-120	73-127	1	0-20	
Toluene	101	100	78-114	72-120	1	0-7	
Trichloroethene	98	98	84-114	79-119	0	0-8	
Vinyl Chloride	96	101	63-129	52-140	4	0-15	
Methyl-t-Butyl Ether (MTBE)	101	105	77-125	69-133	4	0-11	
Tert-Butyl Alcohol (TBA)	89	91	47-137	32-152	2	0-27	
Diisopropyl Ether (DIPE)	116	115	76-130	67-139	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	114	112	76-124	68-132	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	111	109	82-118	76-124	2	0-11	
Ethanol	109	96	59-131	47-143	13	0-21	
TPPH	93	96	65-135	53-147	2	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2186

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Denis Brown

INCIDENT # (ENV SERVICES): 97670444 [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 2/24/09

PAGE: 1 of 1

PO #:

SAP #: 165255

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: shelledf@craworld.com

CONSULTANT PROJECT NO.: 60204

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 Reinhart-Koylu

LAB USE ONLY: 09-02-2186

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 :
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPHg (8260B)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			Container PID Readings or Laboratory Notes
1	MW-8-5'	2/23/09	9:48	Soil					X		1		X	X		X																
2	MW-8-8'	2/23/09	9:51	Soil					X		1		X	X		X																
3	MW-5-5'	2/24/09	9:30	Soil					X		1		X	X		X																
4	MW-5-8'	2/24/09	9:32	Soil					X		1		X	X		X																

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Erin Reinhart-Koylu	Tom Appleby CEL	2/24/09	14:18
FedEx 2-24-09 1730	Deborah CEL	2/25/09	1030

5133791 4

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2186

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 2/25/09

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

Temperature 2.3 °C - 0.2 °C (CF) = 2.1 °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:** WB

CUSTODY SEALS INTACT:

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

☐ 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.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☐	☐	☑
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 ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by:

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: D.L

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by:

Calscience Environmental Laboratories, Inc.

March 09, 2009

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

Subject: **Calscience Work Order No.: 09-02-2185**
Client Reference: 2301-2307 Lincol Ave, Alameda

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/25/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	02/25/09
5900 Hollis Street, Suite A		Work Order No:	09-02-2185
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8(GW@31-34')	**09-02-2185-1-B**	**02/23/09 12:25**	**Aqueous**	**GC/MS OO**	**03/06/09**	**03/06/09 21:24**	**090306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	94	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	108	74-140			1,2-Dichloroethane-d4	109	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	91	74-110							

MW-5(GW@31-34')	**09-02-2185-2-B**	**02/24/09 10:30**	**Aqueous**	**GC/MS OO**	**03/06/09**	**03/06/09 21:50**	**090306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	74-140			1,2-Dichloroethane-d4	111	74-146		
Toluene-d8	101	88-112			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	91	74-110							

Method Blank	**099-12-767-1,259**	**N/A**	**Aqueous**	**GC/MS OO**	**03/06/09**	**03/06/09 18:21**	**090306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	110	74-140			1,2-Dichloroethane-d4	106	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	88	74-110							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/25/09
Work Order No: 09-02-2185
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2267-1	**Aqueous**	**GC/MS OO**	**03/06/09**	**03/06/09**	**090306S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	96	88-118	2	0-7	
Carbon Tetrachloride	102	100	67-145	2	0-11	
Chlorobenzene	96	95	88-118	1	0-7	
1,2-Dibromoethane	92	92	70-130	0	0-30	
1,2-Dichlorobenzene	96	97	86-116	1	0-8	
1,1-Dichloroethene	92	90	70-130	1	0-25	
Ethylbenzene	106	104	70-130	2	0-30	
Toluene	104	101	87-123	3	0-8	
Trichloroethene	98	96	79-127	2	0-10	
Vinyl Chloride	84	84	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	105	107	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	98	99	36-168	2	0-45	
Diisopropyl Ether (DIPE)	115	113	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	109	111	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	111	112	72-126	1	0-12	
Ethanol	103	108	53-149	4	0-31	

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: 09-02-2185
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-1,259	**Aqueous**	**GC/MS OO**	**03/06/09**	**03/06/09**	**090306L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	104	100	84-120	78-126	3	0-8	
Carbon Tetrachloride	110	104	63-147	49-161	5	0-10	
Chlorobenzene	99	97	89-119	84-124	3	0-7	
1,2-Dibromoethane	103	100	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	97	97	89-119	84-124	0	0-9	
1,1-Dichloroethene	104	96	77-125	69-133	8	0-16	
Ethylbenzene	108	105	80-120	73-127	3	0-20	
Toluene	106	104	83-125	76-132	2	0-9	
Trichloroethene	107	103	89-119	84-124	3	0-8	
Vinyl Chloride	93	91	63-135	51-147	2	0-13	
Methyl-t-Butyl Ether (MTBE)	109	109	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	89	95	46-154	28-172	6	0-32	
Diisopropyl Ether (DIPE)	119	116	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	108	109	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	110	112	76-124	68-132	2	0-10	
Ethanol	96	108	60-138	47-151	12	0-32	
TPPH	107	105	65-135	53-147	2	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2185

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Denis Brown

INCIDENT # (ENV SERVICES): 9 7 7 6 7 0 4 4 — [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 2/24/09

PO #:

SAP #: 1 6 5 2 5 5

PAGE: 1 of 1

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: shelledf@craworld.com — CONSULTANT PROJECT NO.: 60204
PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer		SAMPLER NAME(S) (Print): Erin Reinhart-Koylu	LAB USE ONLY: 09-02-2185
TELEPHONE: 510-420-3319 — FAX: 510-420-9170 — E-MAIL: pschaefer@craworld.com			

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 :

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPHg (8260B)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW-8 (GW @ 31-34')	2/23/09	12:25	Groundwater	X					X	3		X	X		X														Zero headspace when sampled on 2/23/09
2	MW-5 (GW @ 31-34')	2/24/09	10:30	Groundwater	X					X	3		X	X		X														Zero headspace when Sampled on 2/24/09

Relinquished by: (Signature) Erin Reinhart	Received by: (Signature) Tom Dipalley CEC	Date: 2/24/09	Time: 14:00
Relinquished by: (Signature) CEC 2-24-09 1730	Received by: (Signature) Wobatu CEC	Date: 2/25/09	Time: 1030
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

5113379714

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2185

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 2/25/09

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

Temperature 2.3 °C - 0.2 °C (CF) = 2.1 °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:** WB

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☑	☐	☐
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 (3) ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: NC

Reviewed by: N

Scanned by: R

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2185

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

Comments:

- ☐ **Not relinquished by client – no signature**
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☐ **Incomplete information regarding samples, tests, etc.**

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of RSK or CO_2 or DO or Organic Lead Received
-1	A, B, C	3						
-2	B, C	2						

Comments: _____

Initial / Date NC 2/25/09

Calscience Environmental Laboratories, Inc.

March 09, 2009

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

Subject: **Calscience Work Order No.: 09-02-2416**
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 2/27/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/27/09
Work Order No: 09-02-2416
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

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
MW-4 (GW@31-34')	**09-02-2416-1-C**	**02/25/09 14:10**	**Aqueous**	**GC/MS R**	**03/03/09**	**03/03/09 21:00**	**090303L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.0	0.50	1		Xylenes (total)	16	1.0	1	
Ethylbenzene	14	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	470	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	74-140			1,2-Dichloroethane-d4	102	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	91	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6 (GW@31-34')	**09-02-2416-2-B**	**02/26/09 10:00**	**Aqueous**	**GC/MS R**	**03/04/09**	**03/04/09 14:59**	**090304L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	101	74-140			1,2-Dichloroethane-d4	105	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	102	88-112		
1,4-Bromofluorobenzene	91	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-1,226**	**N/A**	**Aqueous**	**GC/MS R**	**03/03/09**	**03/03/09 14:13**	**090303L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	74-140			1,2-Dichloroethane-d4	102	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	89	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	02/27/09
5900 Hollis Street, Suite A	Work Order No:	09-02-2416
Emeryville, CA 94608-2008	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B
	Units:	ug/L

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	**099-12-767-1,236**	**N/A**	**Aqueous**	**GC/MS R**	**03/04/09**	**03/04/09 14:01**	**090304L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	101	74-140			1,2-Dichloroethane-d4	101	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	87	74-110							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/27/09
Work Order No: 09-02-2416
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-1851-10	**Aqueous**	**GC/MS R**	**03/03/09**	**03/03/09**	**090303S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	90	91	88-118	1	0-7	
Carbon Tetrachloride	92	95	67-145	4	0-11	
Chlorobenzene	91	96	88-118	5	0-7	
1,2-Dibromoethane	98	100	70-130	3	0-30	
1,2-Dichlorobenzene	94	102	86-116	8	0-8	
1,1-Dichloroethene	92	93	70-130	1	0-25	
Ethylbenzene	97	99	70-130	2	0-30	
Toluene	94	95	87-123	2	0-8	
Trichloroethene	88	90	79-127	2	0-10	
Vinyl Chloride	102	110	69-129	8	0-13	
Methyl-t-Butyl Ether (MTBE)	100	100	71-131	0	0-13	
Tert-Butyl Alcohol (TBA)	97	95	36-168	2	0-45	
Diisopropyl Ether (DIPE)	97	99	81-123	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	103	103	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	100	72-126	0	0-12	
Ethanol	106	102	53-149	4	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/27/09
Work Order No: 09-02-2416
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-1980-1	**Aqueous**	**GC/MS R**	**03/04/09**	**03/04/09**	**090304S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	95	88-118	0	0-7	
Carbon Tetrachloride	100	97	67-145	3	0-11	
Chlorobenzene	98	98	88-118	0	0-7	
1,2-Dibromoethane	105	102	70-130	2	0-30	
1,2-Dichlorobenzene	103	103	86-116	0	0-8	
1,1-Dichloroethene	101	101	70-130	0	0-25	
Ethylbenzene	103	103	70-130	0	0-30	
Toluene	99	99	87-123	0	0-8	
Trichloroethene	94	93	79-127	1	0-10	
Vinyl Chloride	108	117	69-129	8	0-13	
Methyl-t-Butyl Ether (MTBE)	109	107	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	101	101	36-168	0	0-45	
Diisopropyl Ether (DIPE)	107	115	81-123	7	0-9	
Ethyl-t-Butyl Ether (ETBE)	108	106	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	102	102	72-126	0	0-12	
Ethanol	109	116	53-149	6	0-31	

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: 09-02-2416
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-1,226	**Aqueous**	**GC/MS R**	**03/03/09**	**03/03/09**	**090303L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	90	92	84-120	78-126	2	0-8	
Carbon Tetrachloride	94	97	63-147	49-161	3	0-10	
Chlorobenzene	92	96	89-119	84-124	4	0-7	
1,2-Dibromoethane	96	104	80-120	73-127	7	0-20	
1,2-Dichlorobenzene	96	100	89-119	84-124	4	0-9	
1,1-Dichloroethene	91	96	77-125	69-133	5	0-16	
Ethylbenzene	96	102	80-120	73-127	5	0-20	
Toluene	94	98	83-125	76-132	4	0-9	
Trichloroethene	91	98	89-119	84-124	8	0-8	
Vinyl Chloride	101	110	63-135	51-147	9	0-13	
Methyl-t-Butyl Ether (MTBE)	95	102	82-118	76-124	7	0-13	
Tert-Butyl Alcohol (TBA)	93	98	46-154	28-172	6	0-32	
Diisopropyl Ether (DIPE)	95	98	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	102	105	74-122	66-130	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	102	76-124	68-132	1	0-10	
Ethanol	95	102	60-138	47-151	7	0-32	
TPPH	94	94	65-135	53-147	0	0-30	

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

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: 09-02-2416
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-1,236	**Aqueous**	**GC/MS R**	**03/04/09**	**03/04/09**	**090304L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	92	92	84-120	78-126	0	0-8	
Carbon Tetrachloride	93	90	63-147	49-161	3	0-10	
Chlorobenzene	92	96	89-119	84-124	4	0-7	
1,2-Dibromoethane	100	98	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	97	97	89-119	84-124	0	0-9	
1,1-Dichloroethene	92	92	77-125	69-133	0	0-16	
Ethylbenzene	96	98	80-120	73-127	2	0-20	
Toluene	97	98	83-125	76-132	1	0-9	
Trichloroethene	92	93	89-119	84-124	1	0-8	
Vinyl Chloride	103	111	63-135	51-147	8	0-13	
Methyl-t-Butyl Ether (MTBE)	88	94	82-118	76-124	7	0-13	
Tert-Butyl Alcohol (TBA)	95	94	46-154	28-172	1	0-32	
Diisopropyl Ether (DIPE)	99	98	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	103	101	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	100	76-124	68-132	0	0-10	
Ethanol	102	110	60-138	47-151	8	0-32	
TPPH	103	97	65-135	53-147	6	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2416

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:

- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Denis Brown

PO #:

INCIDENT # (ENV SERVICES): 9 7 7 6 7 0 4 4 [ ] CHECK IF NO INCIDENT # APPLIES

SAP #: 1 6 5 2 5 5

DATE: 2/26/09

PAGE: 1 of 1

SAMPLING COMPANY	Conestoga-Rovers & Associates
LOG CODE	CRAW
ADDRESS	5900 Hollis Street, Suite A, Emeryville, CA 94608
PROJECT CONTACT (Hardcopy or PDF Report to)	Peter Schaefer
TELEPHONE	510-420-3319
FAX	510-420-9170
E-MAIL	pschaefer@craworld.com
SITE ADDRESS: Street and City	2301-2307 Lincoln Ave, Alameda
State	CA
GLOBAL ID NO	TO6179714590
EDF DELIVERABLE TO (Name, Company, Office Location)	Brenda Carter, CRA, Emeryville
PHONE NO	510-420-3343
E-MAIL	shelledf@craworld.com
CONSULTANT PROJECT NO	60204
SAMPLER NAME(S) (Print)	Erin Reinhart-Koylu
LAB USE ONLY	09-02-246

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 :

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPHg (8260B)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW-4 (GW@31-34')	2/25/09	14:10	Groundwater					X		3		X	X		X																Zero head space when Sampled (Comp preserved)
2	MW-6 (GW@31-34')	2/26/09	10:00	Groundwater					X		3		X	X		X																Zero head space when Sampled (NON-preserved)

Relinquished by: (Signature)		Received by: (Signature)	CEL
Date:	2/26/09	Time:	13:54
Relinquished by: (Signature)	2-26-09 1730	Received by: (Signature)	
Date:	022709	Time:	1000
Relinquished by: (Signature)	SHL 57657	Received by: (Signature)	
Date:		Time:	

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2416

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 02/27/09

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

Temperature 2.9 °C - 0.2 °C (CF) = 2.7 °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: NC

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
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 (DU 9/27/09) ☐$VOANa_2$ ☐125AGB ☐125AGBh ☐$125AGBpo_4$ ☐1AGB ☐$1AGBna_2$ ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐$100PBna_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Checked/Labeled by: BF

Reviewed by: DC

Scanned by: BP

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2416

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

Comments:

- ☐ **Not relinquished by client** – no signature
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☐ **Incomplete information regarding samples, tests, etc.**

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **No preservative noted on label** – list test and notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and Time Collected**
  - ☐ **Project Information**
  - ☐ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of RSK or CO_2 or DO or Organic Lead Received
2	A, B, C	3						

Comments: _____

Initial / Date BF 2/27/09

Calscience Environmental Laboratories, Inc.

March 10, 2009

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

Subject: **Calscience Work Order No.: 09-02-2320**
Client Reference: 2301-2307 Lincol Ave, Alameda

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/26/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	02/26/09
5900 Hollis Street, Suite A		Work Order No:	09-02-2320
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7-5'	**09-02-2320-1-A**	**02/25/09 09:00**	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09 14:51**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	73-139			1,2-Dichloroethane-d4	120	73-145		
Toluene-d8	102	90-108			1,4-Bromofluorobenzene	100	71-113		
Toluene-d8-TPPH	102	88-112							

MW-7-8'	**09-02-2320-2-A**	**02/25/09 09:05**	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09 18:14**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	113	73-139			1,2-Dichloroethane-d4	120	73-145		
Toluene-d8	104	90-108			1,4-Bromofluorobenzene	100	71-113		
Toluene-d8-TPPH	103	88-112							

MW-4-5'	**09-02-2320-3-A**	**02/25/09 13:13**	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09 18:39**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	112	73-139			1,2-Dichloroethane-d4	116	73-145		
Toluene-d8	104	90-108			1,4-Bromofluorobenzene	100	71-113		
Toluene-d8-TPPH	104	88-112							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	02/26/09
5900 Hollis Street, Suite A		Work Order No:	09-02-2320
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4-8'	**09-02-2320-4-A**	**02/25/09 13:18**	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09 19:05**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	115	73-139			1,2-Dichloroethane-d4	118	73-145		
Toluene-d8	104	90-108			1,4-Bromofluorobenzene	100	71-113		
Toluene-d8-TPPH	103	88-112							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-798-314**	**N/A**	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09 14:00**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	109	73-139			1,2-Dichloroethane-d4	110	73-145		
Toluene-d8	102	90-108			1,4-Bromofluorobenzene	99	71-113		
Toluene-d8-TPPH	102	88-112							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/26/09
Work Order No: 09-02-2320
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-7-5'	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09**	**090307S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	100	79-115	1	0-13	
Carbon Tetrachloride	97	107	55-139	10	0-15	
Chlorobenzene	92	90	79-115	2	0-17	
1,2-Dibromoethane	94	86	70-130	9	0-30	
1,2-Dichlorobenzene	89	82	63-123	8	0-23	
1,1-Dichloroethene	109	111	69-123	2	0-16	
Ethylbenzene	93	93	70-130	1	0-30	
Toluene	99	100	79-115	0	0-15	
Trichloroethene	95	97	66-144	2	0-14	
Vinyl Chloride	137	122	60-126	12	0-14	3
Methyl-t-Butyl Ether (MTBE)	107	99	68-128	8	0-14	
Tert-Butyl Alcohol (TBA)	96	64	44-134	41	0-37	4
Diisopropyl Ether (DIPE)	111	105	75-123	5	0-12	
Ethyl-t-Butyl Ether (ETBE)	106	101	75-117	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	92	79-115	5	0-12	
Ethanol	87	29	42-138	101	0-28	4,3

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: 09-02-2320
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-314	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09**	**090307L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	103	103	84-114	79-119	1	0-7	
Carbon Tetrachloride	108	116	66-132	55-143	7	0-12	
Chlorobenzene	97	97	87-111	83-115	0	0-7	
1,2-Dibromoethane	98	100	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	95	94	79-115	73-121	1	0-8	
1,1-Dichloroethene	110	111	73-121	65-129	1	0-12	
Ethylbenzene	99	99	80-120	73-127	0	0-20	
Toluene	103	104	78-114	72-120	1	0-7	
Trichloroethene	102	103	84-114	79-119	1	0-8	
Vinyl Chloride	120	121	63-129	52-140	1	0-15	
Methyl-t-Butyl Ether (MTBE)	111	115	77-125	69-133	3	0-11	
Tert-Butyl Alcohol (TBA)	94	98	47-137	32-152	4	0-27	
Diisopropyl Ether (DIPE)	114	116	76-130	67-139	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	112	116	76-124	68-132	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	105	107	82-118	76-124	3	0-11	
Ethanol	98	97	59-131	47-143	2	0-21	
TPPH	113	106	65-135	53-147	6	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2320

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Denis Brown

PO #:

INCIDENT # (ENV SERVICES): 97670444

SAP #: 165255

- [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 2/25/09

PAGE: 1 of 1

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: shelledf@craworld.com

CONSULTANT PROJECT NO.: 60204

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 Reinhart-Koylu

LAB USE ONLY: 09-02-2320

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 :

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPHg (8260B)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW-7-5'	2/25/09	9:00	Soil					X		1		X	X		X																
2	MW-7-8'	2/25/09	9:05	Soil					X		1		X	X		X																
3	MW-4-5'	2/25/09	13:13	Soil					X		1		X	X		X																
4	MW-4-8'	2/25/09	13:18	Soil					X		1		X	X		X																

Relinquished by: (Signature)	Received by: (Signature)	Date: 2/25/09	Time: 13:54
Relinquished by: (Signature) Sam O'Malley TO GSO 2/25/09 1730	Received by: (Signature) Wdbath CEL	Date: 2/26/09	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

511346997

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2320

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 2/26/09

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

Temperature 1.9 °C - 0.2 °C (CF) = 1.7 °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:** WB

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☐	☐	☑
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 ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: WB

Reviewed by: YL

Scanned by: WB

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Calscience Environmental Laboratories, Inc.

March 10, 2009

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

Subject: **Calscience Work Order No.: 09-02-2321**
Client Reference: 2301-2307 Lincol Ave, Alameda

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/26/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2321
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7 (GW@31-34')	**09-02-2321-1-A**	**02/25/09 09:50**	**Aqueous**	**GC/MS W**	**03/06/09**	**03/07/09 00:15**	**090306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	125	74-140			1,2-Dichloroethane-d4	127	74-146		
Toluene-d8	106	88-112			Toluene-d8-TPPH	106	88-112		
1,4-Bromofluorobenzene	94	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-1,253**	**N/A**	**Aqueous**	**GC/MS W**	**03/06/09**	**03/06/09 16:38**	**090306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	74-140			1,2-Dichloroethane-d4	116	74-146		
Toluene-d8	103	88-112			Toluene-d8-TPPH	103	88-112		
1,4-Bromofluorobenzene	95	74-110							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/26/09
Work Order No: 09-02-2321
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2132-4	**Aqueous**	**GC/MS W**	**03/06/09**	**03/06/09**	**090306S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	103	88-118	2	0-7	
Carbon Tetrachloride	101	98	67-145	3	0-11	
Chlorobenzene	104	102	88-118	2	0-7	
1,2-Dibromoethane	105	106	70-130	0	0-30	
1,2-Dichlorobenzene	102	100	86-116	2	0-8	
1,1-Dichloroethene	96	93	70-130	3	0-25	
Ethylbenzene	104	103	70-130	1	0-30	
Toluene	105	104	87-123	1	0-8	
Trichloroethene	103	101	79-127	1	0-10	
Vinyl Chloride	85	81	69-129	4	0-13	
Methyl-t-Butyl Ether (MTBE)	94	91	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	97	98	36-168	1	0-45	
Diisopropyl Ether (DIPE)	86	83	81-123	4	0-9	
Ethyl-t-Butyl Ether (ETBE)	86	84	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	93	93	72-126	0	0-12	
Ethanol	103	113	53-149	9	0-31	

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: 09-02-2321
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-1,253	**Aqueous**	**GC/MS W**	**03/06/09**	**03/06/09**	**090306L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	102	84-120	78-126	1	0-8	
Carbon Tetrachloride	96	97	63-147	49-161	2	0-10	
Chlorobenzene	99	102	89-119	84-124	3	0-7	
1,2-Dibromoethane	99	104	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	98	99	89-119	84-124	1	0-9	
1,1-Dichloroethene	90	89	77-125	69-133	0	0-16	
Ethylbenzene	99	101	80-120	73-127	2	0-20	
Toluene	102	102	83-125	76-132	0	0-9	
Trichloroethene	99	102	89-119	84-124	3	0-8	
Vinyl Chloride	86	86	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	85	89	82-118	76-124	4	0-13	
Tert-Butyl Alcohol (TBA)	89	91	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	82	83	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	81	82	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	88	91	76-124	68-132	3	0-10	
Ethanol	105	94	60-138	47-151	11	0-32	
TPPH	79	80	65-135	53-147	0	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2321

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Denis Brown

INCIDENT # (ENV SERVICES): 97706044 [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 2/25/09

PO #:

SAP #: 165255

PAGE: 1 of 1

SAMPLING COMPANY	Conestoga-Rovers & Associates
LOG CODE	CRAW
ADDRESS	5900 Hollis Street, Suite A, Emeryville, CA 94608
PROJECT CONTACT (Hardcopy or PDF Report to)	Peter Schaefer
TELEPHONE	510-420-3319
FAX	510-420-9170
E-MAIL	pschaefer@craworld.com
SITE ADDRESS: Street and City	2301-2307 Lincoln Ave, Alameda
State	CA
GLOBAL ID NO	TO6179714590
EDF DELIVERABLE TO (Name, Company, Office Location)	Brenda Carter, CRA, Emeryville
PHONE NO	510-420-3343
E-MAIL	shelledf@craworld.com
CONSULTANT PROJECT NO	60204
SAMPLER NAME(S) (Print)	Erin Reinhart-Koylu
LAB USE ONLY	09-02-2321

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 :
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPHg (8260B)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			Container PID Readings or Laboratory Notes
1	MW-7 (GW@31-34')	2/25/09	9:50	Groundwater	X					X	3		X	X		X																zero headspace when sampled 2/25/09
	MW-8																															

TEMPERATURE ON RECEIPT C°:

Relinquished by: (Signature) Erin Reinhart-Koylu	Received by: (Signature) CEL	Date: 2/25/09	Time: 13:56
Relinquished by: (Signature) Tom O'Malley TOOSO 1730 2/25/09	Received by: (Signature) Wabatu CEL	Date: 2/26/09	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

5113A6997

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2321

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 2/26/09

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

Temperature 1.9 °C - 0.2 °C (CF) = 1.7 °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:** WB

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☑	☐	☐
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 ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: WB

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: YL

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: WB

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2321

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

- ☐ **Not relinquished by client – no signature**
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☐ **Incomplete information regarding samples, tests, etc.**

Comments:

SAMPLES - CONTAINERS & LABELS:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

Comments:

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of RSK or CO_2 or DO or Organic Lead Received
1	ABC	3						

Comments: _____

Initial / Date UWB 2/26/09

Calscience
Environmental
Laboratories, Inc.

March 11, 2009

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

Subject: **Calscience Work Order No.: 09-02-2415**
Client Reference: 2301-2307 Lincol Ave., Alameda, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/27/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/27/09
Work Order No: 09-02-2415
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: mg/kg

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6-5'	**09-02-2415-1-A**	**02/26/09 09:10**	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09 19:30**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	73-139			1,2-Dichloroethane-d4	121	73-145		
Toluene-d8	104	90-108			1,4-Bromofluorobenzene	101	71-113		
Toluene-d8-TPPH	104	88-112							

MW-6-8'	**09-02-2415-2-A**	**02/26/09 09:13**	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09 19:55**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	114	73-139			1,2-Dichloroethane-d4	115	73-145		
Toluene-d8	104	90-108			1,4-Bromofluorobenzene	101	71-113		
Toluene-d8-TPPH	103	88-112							

Method Blank	**099-12-798-314**	**N/A**	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09 14:00**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	109	73-139			1,2-Dichloroethane-d4	110	73-145		
Toluene-d8	102	90-108			1,4-Bromofluorobenzene	99	71-113		
Toluene-d8-TPPH	102	88-112							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/27/09
Work Order No: 09-02-2415
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincol Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2320-1	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09**	**090307S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	100	79-115	1	0-13	
Carbon Tetrachloride	97	107	55-139	10	0-15	
Chlorobenzene	92	90	79-115	2	0-17	
1,2-Dibromoethane	94	86	70-130	9	0-30	
1,2-Dichlorobenzene	89	82	63-123	8	0-23	
1,1-Dichloroethene	109	111	69-123	2	0-16	
Ethylbenzene	93	93	70-130	1	0-30	
Toluene	99	100	79-115	0	0-15	
Trichloroethene	95	97	66-144	2	0-14	
Vinyl Chloride	137	122	60-126	12	0-14	3
Methyl-t-Butyl Ether (MTBE)	107	99	68-128	8	0-14	
Tert-Butyl Alcohol (TBA)	96	64	44-134	41	0-37	4
Diisopropyl Ether (DIPE)	111	105	75-123	5	0-12	
Ethyl-t-Butyl Ether (ETBE)	106	101	75-117	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	92	79-115	5	0-12	
Ethanol	87	29	42-138	101	0-28	4,3

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: 09-02-2415
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-314	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09**	**090307L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	103	103	84-114	79-119	1	0-7	
Carbon Tetrachloride	108	116	66-132	55-143	7	0-12	
Chlorobenzene	97	97	87-111	83-115	0	0-7	
1,2-Dibromoethane	98	100	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	95	94	79-115	73-121	1	0-8	
1,1-Dichloroethene	110	111	73-121	65-129	1	0-12	
Ethylbenzene	99	99	80-120	73-127	0	0-20	
Toluene	103	104	78-114	72-120	1	0-7	
Trichloroethene	102	103	84-114	79-119	1	0-8	
Vinyl Chloride	120	121	63-129	52-140	1	0-15	
Methyl-t-Butyl Ether (MTBE)	111	115	77-125	69-133	3	0-11	
Tert-Butyl Alcohol (TBA)	94	98	47-137	32-152	4	0-27	
Diisopropyl Ether (DIPE)	114	116	76-130	67-139	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	112	116	76-124	68-132	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	105	107	82-118	76-124	3	0-11	
Ethanol	98	97	59-131	47-143	2	0-21	
TPPH	113	106	65-135	53-147	6	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2415

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Denis Brown

PO #:

INCIDENT # (ENV SERVICES): 97706744

SAP #: 165255

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 2/26/09

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE:

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: shelledf@craworld.com

CONSULTANT PROJECT NO.: 60204

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

TELEPHONE: 510-420-3316

FAX: 510-385-0212

E-MAIL: PSchaefer@craworld.com

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

LAB USE ONLY: 09-02-2415

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 :

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH g (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW-6-5'	2/26/09	9:10	SO					X		1	X		X		X																
2	MW-6-8'	2/26/09	9:13	SO					X		1	X		X		X																

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Erin Reinhart-Koylu	CEL	2/26/09	13:53
CEL 2-26-09 1730	CEL	022709	1000
5113 57657			

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2415

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 02/27/09

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

Temperature 2.9 °C - 0.2 °C (CF) = 2.7 °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:** NC

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☐	☐	☑
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 ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: DC

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: PS

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: DC

Calscience
Environmental
Laboratories, Inc.

Supplemental Report 1

April 03, 2009

The original report has been revised/corrected.

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

Subject: **Calscience Work Order No.: 09-02-2548**
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 2/28/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/28/09
Work Order No: 09-02-2548
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

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
B-5 (GW@9-13')	**09-02-2548-1-A**	**02/27/09 10:52**	**Aqueous**	**GC/MS RR**	**03/09/09**	**03/10/09 07:47**	**090309L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	109	74-140			1,2-Dichloroethane-d4	107	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	90	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-7 (GW@9-13')	**09-02-2548-2-A**	**02/27/09 09:39**	**Aqueous**	**GC/MS RR**	**03/09/09**	**03/10/09 08:12**	**090309L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	17	1.0	1	
Ethylbenzene	5.6	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	240	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	109	74-140			1,2-Dichloroethane-d4	105	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	95	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-8 (GW@9-13')	**09-02-2548-3-A**	**02/27/09 11:50**	**Aqueous**	**GC/MS RR**	**03/09/09**	**03/10/09 08:37**	**090309L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	2.6	1.0	1	
Ethylbenzene	2.5	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	60	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	74-140			1,2-Dichloroethane-d4	110	74-146		
Toluene-d8	102	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	92	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	02/28/09
5900 Hollis Street, Suite A	Work Order No:	09-02-2548
Emeryville, CA 94608-2008	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B
	Units:	ug/L

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	**099-12-767-1,277**	**N/A**	**Aqueous**	**GC/MS RR**	**03/09/09**	**03/10/09 04:07**	**090309L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	109	74-140			1,2-Dichloroethane-d4	107	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	91	74-110							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/28/09
Work Order No: 09-02-2548
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2423-3	**Aqueous**	**GC/MS RR**	**03/09/09**	**03/10/09**	**090309S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	94	88-118	1	0-7	
Carbon Tetrachloride	94	91	67-145	2	0-11	
Chlorobenzene	93	93	88-118	0	0-7	
1,2-Dibromoethane	97	97	70-130	0	0-30	
1,2-Dichlorobenzene	93	92	86-116	1	0-8	
1,1-Dichloroethene	102	99	70-130	3	0-25	
Ethylbenzene	95	94	70-130	1	0-30	
Toluene	99	99	87-123	0	0-8	
Trichloroethene	90	89	79-127	1	0-10	
Vinyl Chloride	116	125	69-129	8	0-13	
Methyl-t-Butyl Ether (MTBE)	102	99	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	102	96	36-168	6	0-45	
Diisopropyl Ether (DIPE)	112	110	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	106	105	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	96	72-126	2	0-12	
Ethanol	125	114	53-149	9	0-31	

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: 09-02-2548
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-1,277	**Aqueous**	**GC/MS RR**	**03/09/09**	**03/10/09**	**090309L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	95	91	84-120	78-126	4	0-8	
Carbon Tetrachloride	95	91	63-147	49-161	4	0-10	
Chlorobenzene	96	96	89-119	84-124	0	0-7	
1,2-Dibromoethane	99	95	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	94	93	89-119	84-124	1	0-9	
1,1-Dichloroethene	102	97	77-125	69-133	5	0-16	
Ethylbenzene	97	94	80-120	73-127	2	0-20	
Toluene	104	103	83-125	76-132	1	0-9	
Trichloroethene	96	91	89-119	84-124	5	0-8	
Vinyl Chloride	118	116	63-135	51-147	2	0-13	
Methyl-t-Butyl Ether (MTBE)	103	100	82-118	76-124	3	0-13	
Tert-Butyl Alcohol (TBA)	89	98	46-154	28-172	10	0-32	
Diisopropyl Ether (DIPE)	113	110	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	106	105	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	95	76-124	68-132	4	0-10	
Ethanol	99	118	60-138	47-151	18	0-32	
TPPH	102	106	65-135	53-147	3	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2548

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

Philip Sanelle

From: Schaefer, Peter [pschaefer@craworld.com]
Sent: Tuesday, March 31, 2009 2:39 PM
To: Philip Sanelle
Subject: 060204-2301-2307 Linclon Ave., Alameda, CA - 09-02-2548: report MTBE for B-7 (GW@ 9-13')

Philip,

Would it be possible to report MTBE for this sample? We forgot to check it on the COC. Thanks for your help.

Regards,

Peter Schaefer, CEG, CHG
Conestoga-Rovers & Associates
5900 Hollis Avenue, Suite A
Emeryville, California 94608-2008
Telephone: (510) 420-3319
Fax: (510) 420-9170
pschaefer@craworld.com

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [x] OTHER ___TECH SERVICES_____

Print Bill To Contact Name: Bill Merchant

INCIDENT # (ENV SERVICES): 97706744 [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 2/27/09

PAGE: 1 of 1

PO #:

SAP #: 165255

SAMPLING COMPANY	Conestoga-Rovers & Associates
LOG CODE	CRAW
SITE ADDRESS: Street and City	2301-2307 Lincoln Ave, Alameda
State	CA
GLOBAL ID NO	T0617971459O
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	shelledf@craworld.com
CONSULTANT PROJECT NO	060204
PROJECT CONTACT (Hardcopy or PDF Report to)	Peter Schaefer
TELEPHONE	510-420-3319
FAX	510-420-9170
E-MAIL	pschaefer@craworld.com
Sampler:	Erin Reinhart-Kayla
LAB USE ONLY	09-02-2548

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 : I
N

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	ICE	OTHER	NO. OF CONT.	TPHg (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	B-5 (GW@9-13')	2/27/09	10:52	GW	X					X	3	X		X		X														
2	B-7 (GW@9-13')	2/27/09	9:39	GW	X					X	3	X		X																
3	B-8 (GW@9-13')	2/27/09	11:50	GW	X					X	3	X		X		X														

Relinquished by: (Signature)	Erin Reinhart-Kayla	Received by: (Signature)	CEL
Date:	2-27-09	Time:	1315
Relinquished by: (Signature)	CSD 2-27-09 1731	Received by: (Signature)	CEL
Date:	2-28-09	Time:	09:10
Relinquished by: (Signature)		Received by: (Signature)	
Date:		Time:	

2/28/09 E11367833

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2548

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Conestoga-Rovers DATE: 2/28/09

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

Temperature 1.9 °C - 0.2 °C (CF) = 1.7 °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:** YL

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☑	☐	☐
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 ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Checked/Labeled by: ~~CA~~

Reviewed by: SO

Scanned by: ~~CA~~

Calscience Environmental Laboratories, Inc.

March 16, 2009

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

Subject: **Calscience Work Order No.: 09-02-2549**
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 2/28/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	02/28/09
5900 Hollis Street, Suite A		Work Order No:	09-02-2549
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

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
B-5-5.5'	**09-02-2549-1-A**	**02/27/09 10:29**	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09 19:40**	**090309L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	73-139			1,2-Dichloroethane-d4	114	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	88	71-113		
Toluene-d8-TPPH	101	88-112							

B-5-8.5'	**09-02-2549-2-A**	**02/27/09 10:33**	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09 22:32**	**090309L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	73-139			1,2-Dichloroethane-d4	109	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	89	71-113		
Toluene-d8-TPPH	100	88-112							

B-7-5.5'	**09-02-2549-3-A**	**02/27/09 09:08**	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09 22:57**	**090309L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	73-139			1,2-Dichloroethane-d4	109	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	87	71-113		
Toluene-d8-TPPH	99	88-112							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	02/28/09
5900 Hollis Street, Suite A		Work Order No:	09-02-2549
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

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
B-7-8.5'	**09-02-2549-4-A**	**02/27/09 09:09**	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09 21:43**	**090309L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100		Xylenes (total)	ND	0.50	100	
Ethylbenzene	ND	0.50	100		Methyl-t-Butyl Ether (MTBE)	ND	0.50	100	
Toluene	ND	0.50	100		TPPH	87	50	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	73-139			1,2-Dichloroethane-d4	109	73-145		
Toluene-d8	105	90-108			1,4-Bromofluorobenzene	102	71-113		
Toluene-d8-TPPH	107	88-112							

B-8-5.5'	**09-02-2549-5-A**	**02/27/09 11:38**	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09 23:21**	**090309L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	101	73-139			1,2-Dichloroethane-d4	111	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	86	71-113		
Toluene-d8-TPPH	101	88-112							

B-8-8.5'	**09-02-2549-6-A**	**02/27/09 11:42**	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09 22:08**	**090309L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	20	4000		Xylenes (total)	150	20	4000	
Ethylbenzene	120	20	4000		Methyl-t-Butyl Ether (MTBE)	ND	20	4000	
Toluene	ND	20	4000		TPPH	7900	2000	4000	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	73-139			1,2-Dichloroethane-d4	107	73-145		
Toluene-d8	105	90-108			1,4-Bromofluorobenzene	101	71-113		
Toluene-d8-TPPH	107	88-112							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	02/28/09
5900 Hollis Street, Suite A		Work Order No:	09-02-2549
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

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	**099-12-798-317**	**N/A**	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09 18:26**	**090309L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Toluene	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	73-139			1,2-Dichloroethane-d4	108	73-145		
Toluene-d8	97	90-108			1,4-Bromofluorobenzene	89	71-113		
Toluene-d8-TPPH	98	88-112							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-798-318**	**N/A**	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09 19:15**	**090309L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100		Xylenes (total)	ND	0.50	100	
Ethylbenzene	ND	0.50	100		Methyl-t-Butyl Ether (MTBE)	ND	0.50	100	
Toluene	ND	0.50	100		TPPH	ND	50	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	73-139			1,2-Dichloroethane-d4	111	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	92	71-113		
Toluene-d8-TPPH	101	88-112							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/28/09
Work Order No: 09-02-2549
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-5-5.5'	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09**	**090309S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	99	79-115	1	0-13	
Carbon Tetrachloride	110	106	55-139	4	0-15	
Chlorobenzene	101	100	79-115	1	0-17	
1,2-Dibromoethane	99	100	70-130	1	0-30	
1,2-Dichlorobenzene	98	98	63-123	0	0-23	
1,1-Dichloroethene	106	104	69-123	2	0-16	
Ethylbenzene	107	106	70-130	1	0-30	
Toluene	101	100	79-115	1	0-15	
Trichloroethene	99	98	66-144	2	0-14	
Vinyl Chloride	99	100	60-126	1	0-14	
Methyl-t-Butyl Ether (MTBE)	101	95	68-128	6	0-14	
Tert-Butyl Alcohol (TBA)	94	93	44-134	1	0-37	
Diisopropyl Ether (DIPE)	110	110	75-123	0	0-12	
Ethyl-t-Butyl Ether (ETBE)	107	107	75-117	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	105	79-115	1	0-12	
Ethanol	89	99	42-138	10	0-28	

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: 09-02-2549
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-317	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09**	**090309L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	98	84-114	79-119	3	0-7	
Carbon Tetrachloride	111	106	66-132	55-143	5	0-12	
Chlorobenzene	104	100	87-111	83-115	4	0-7	
1,2-Dibromoethane	105	101	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	103	102	79-115	73-121	1	0-8	
1,1-Dichloroethene	109	104	73-121	65-129	5	0-12	
Ethylbenzene	109	106	80-120	73-127	3	0-20	
Toluene	104	101	78-114	72-120	3	0-7	
Trichloroethene	104	102	84-114	79-119	1	0-8	
Vinyl Chloride	97	97	63-129	52-140	0	0-15	
Methyl-t-Butyl Ether (MTBE)	109	106	77-125	69-133	3	0-11	
Tert-Butyl Alcohol (TBA)	96	91	47-137	32-152	5	0-27	
Diisopropyl Ether (DIPE)	117	114	76-130	67-139	3	0-8	
Ethyl-t-Butyl Ether (ETBE)	116	112	76-124	68-132	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	111	108	82-118	76-124	3	0-11	
Ethanol	87	86	59-131	47-143	1	0-21	
TPPH	98	91	65-135	53-147	8	0-30	

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

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: 09-02-2549
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-318	**Solid**	**GC/MS UU**	**03/09/09**	**03/09/09**	**090309L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	98	84-114	79-119	3	0-7	
Carbon Tetrachloride	111	106	66-132	55-143	5	0-12	
Chlorobenzene	104	100	87-111	83-115	4	0-7	
1,2-Dibromoethane	105	101	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	103	102	79-115	73-121	1	0-8	
1,1-Dichloroethene	109	104	73-121	65-129	5	0-12	
Ethylbenzene	109	106	80-120	73-127	3	0-20	
Toluene	104	101	78-114	72-120	3	0-7	
Trichloroethene	104	102	84-114	79-119	1	0-8	
Vinyl Chloride	97	97	63-129	52-140	0	0-15	
Methyl-t-Butyl Ether (MTBE)	109	106	77-125	69-133	3	0-11	
Tert-Butyl Alcohol (TBA)	96	91	47-137	32-152	5	0-27	
Diisopropyl Ether (DIPE)	117	114	76-130	67-139	3	0-8	
Ethyl-t-Butyl Ether (ETBE)	116	112	76-124	68-132	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	111	108	82-118	76-124	3	0-11	
Ethanol	87	86	59-131	47-143	1	0-21	
TPPH	98	91	65-135	53-147	8	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2549

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Denis Brown

INCIDENT # (ENV SERVICES): 97670444 [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 2/27/09

PO #:

SAP #: 16525

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE:

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: shelledf@craworld.com

CONSULTANT PROJECT NO.: 60204

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

TELEPHONE: 510-420-3316

FAX: 510-385-0212

E-MAIL: pschaefer@craworld.com

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

LAB USE ONLY: 09-02-2549

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 :

cc: Kari Dupler, kdupler@craworld.com

Follow attached contingent analysis

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH g (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	(EKK) B-5-5.5'	2/27/09	10:29	SO					X		1	X		X		X																
2	(EKK) B-5-8.5'		10:33																													
3	B-7-5.5'		9:08																													
4	B-7-8.5'		9:09																													
5	B-8-5.5'		11:38																													
6	B-8-8.5'		11:42																													
	(EKK)																															
	(EKK)																															
	(EKK)																															

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Erin Reinhart-K	CEL	2-27-09	1315
TO GSD 2-27-09 1730	CEL	2-28-09	0910

511367833

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-[0][2]-[2][5][4][9]

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Conestoga-Rover

DATE: 2/28/09

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

Temperature 1.9 °C - 0.2 °C (CF) = 1.7 °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:** YC

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☐	☐	☑
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 ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: SO

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: W.S.C

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: SO

Calscience Environmental Laboratories, Inc.

March 17, 2009

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

Subject: **Calscience Work Order No.: 09-02-2187**
Client Reference: 2301-2307 Lincol Ave, Alameda

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/25/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/25/09
Work Order No: 09-02-2187
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A	**09-02-2187-5-A**	**02/24/09 00:00**	**Solid**	**ICP 5300**	**03/03/09**	**03/04/09 13:31**	**090303L02A**

Comment(s): -Mercury was analyzed on 3/4/2009 1:08:59 PM with batch 090303L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.15	0.750	1		Molybdenum	ND	0.250	1	
Barium	65.6	0.500	1		Nickel	20.6	0.250	1	
Beryllium	0.265	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	30.0	0.250	1		Thallium	ND	0.750	1	
Cobalt	4.08	0.250	1		Vanadium	19.1	0.250	1	
Copper	7.27	0.500	1		Zinc	46.3	1.00	1	
Lead	40.2	0.500	1						

Method Blank	**099-04-007-6,155**	**N/A**	**Solid**	**Mercury**	**03/03/09**	**03/03/09 14:11**	**090303L03**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,090**	**N/A**	**Solid**	**ICP 5300**	**03/03/09**	**03/03/09 20:21**	**090303L02A**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Molybdenum	ND	0.250	1	
Barium	ND	0.500	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Cobalt	ND	0.250	1		Vanadium	ND	0.250	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	02/25/09
5900 Hollis Street, Suite A	Work Order No:	09-02-2187
Emeryville, CA 94608-2008	Preparation:	EPA 3550B
	Method:	EPA 8015B

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A	**09-02-2187-5-A**	**02/24/09 00:00**	**Solid**	**GC 46**	**03/02/09**	**03/02/09 23:05**	**090302B03**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	18	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	131	61-145	

Method Blank	099-12-025-641	N/A	Solid	GC 46	03/02/09	03/02/09 20:14	090302B03

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	61-145	

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: 02/25/09
Work Order No: 09-02-2187
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A	**09-02-2187-5-A**	**02/24/09 00:00**	**Solid**	**GC 46**	**03/02/09**	**03/02/09 23:05**	**090302B04**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	120	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	131	61-145	

Method Blank	099-12-254-693	N/A	Solid	GC 46	03/02/09	03/02/09 20:14	090302B04

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	61-145	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received: 02/25/09
5900 Hollis Street, Suite A	Work Order No: 09-02-2187
Emeryville, CA 94608-2008	Preparation: DHS LUFT
	Method: DHS LUFT

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A	**09-02-2187-5-A**	**02/24/09 00:00**	**Solid**	**FLAA**	**03/06/09**	**03/06/09 15:50**	**090306L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-020-1,151**	**N/A**	**Solid**	**FLAA**	**03/06/09**	**03/06/09 15:50**	**090306L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	02/25/09
5900 Hollis Street, Suite A		Work Order No:	09-02-2187
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

Project: 2301-2307 Lincol Ave, Alameda

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A	**09-02-2187-5-A**	**02/24/09 00:00**	**Solid**	**GC/MS UU**	**03/02/09**	**03/03/09 05:35**	**090302L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		TPPH	ND	0.50	1	
Toluene	ND	0.0050	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	73-139		1,2-Dichloroethane-d4	101	73-145	
Toluene-d8	98	90-108		1,4-Bromofluorobenzene	88	71-113	
Toluene-d8-TPPH	99	88-112					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-798-305**	**N/A**	**Solid**	**GC/MS UU**	**03/02/09**	**03/03/09 01:31**	**090302L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		TPPH	ND	0.50	1	
Toluene	ND	0.0050	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	100	73-139		1,2-Dichloroethane-d4	101	73-145	
Toluene-d8	98	90-108		1,4-Bromofluorobenzene	86	71-113	
Toluene-d8-TPPH	99	88-112					

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/25/09
Work Order No: 09-02-2187
Preparation: EPA 3050B
Method: EPA 6010B

Project 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-03-0039-1	**Solid**	**ICP 5300**	**03/03/09**	**03/05/09**	**090303S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	8	5	80-120	45	0-20	3
Arsenic	118	109	80-120	6	0-20	
Barium	4X	4X	80-120	4X	0-20	Q
Beryllium	105	105	80-120	0	0-20	
Cadmium	101	100	80-120	1	0-20	
Chromium	108	99	80-120	4	0-20	
Cobalt	107	103	80-120	3	0-20	
Copper	115	103	80-120	6	0-20	
Lead	104	95	80-120	7	0-20	
Molybdenum	88	88	80-120	1	0-20	
Nickel	108	102	80-120	3	0-20	
Selenium	100	97	80-120	3	0-20	
Silver	105	106	75-120	0	0-20	
Thallium	91	92	80-120	1	0-20	
Vanadium	115	104	80-120	4	0-20	
Zinc	108	86	80-120	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/25/09
Work Order No: 09-02-2187
Preparation: EPA 3550B
Method: EPA 8015B

Project 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2190-4	**Solid**	**GC 46**	**03/02/09**	**03/02/09**	**090302S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	85	87	64-130	2	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/25/09
Work Order No: 09-02-2187
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2190-4	**Solid**	**GC 46**	**03/02/09**	**03/02/09**	**090302S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	93	93	64-130	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/25/09
Work Order No: 09-02-2187
Preparation: DHS LUFT
Method: DHS LUFT

Project 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-03-0427-1	**Solid**	**FLAA**	**03/06/09**	**03/06/09**	**090306S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	56	54	22-148	3	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/25/09
Work Order No: 09-02-2187
Preparation: EPA 7471A Total
Method: EPA 7471A

Project 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-03-0039-1	**Solid**	**Mercury**	**03/03/09**	**03/03/09**	**090303S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	107	116	80-120	8	0-16	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/25/09
Work Order No: 09-02-2187
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2191-1	**Solid**	**GC/MS UU**	**03/02/09**	**03/02/09**	**090302S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	97	79-115	2	0-13	
Carbon Tetrachloride	104	96	55-139	8	0-15	
Chlorobenzene	100	100	79-115	1	0-17	
1,2-Dibromoethane	95	99	70-130	4	0-30	
1,2-Dichlorobenzene	97	99	63-123	2	0-23	
1,1-Dichloroethene	106	98	69-123	7	0-16	
Ethylbenzene	109	104	70-130	4	0-30	
Toluene	102	99	79-115	3	0-15	
Trichloroethene	99	95	66-144	4	0-14	
Vinyl Chloride	107	103	60-126	4	0-14	
Methyl-t-Butyl Ether (MTBE)	94	98	68-128	4	0-14	
Tert-Butyl Alcohol (TBA)	78	93	44-134	18	0-37	
Diisopropyl Ether (DIPE)	101	102	75-123	1	0-12	
Ethyl-t-Butyl Ether (ETBE)	101	105	75-117	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	105	79-115	4	0-12	
Ethanol	72	90	42-138	22	0-28	

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: 09-02-2187
Preparation: EPA 3050B
Method: EPA 6010B

Project: 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,090	**Solid**	**ICP 5300**	**03/03/09**	**03/03/09**	**090303L02A**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	97	97	80-120	73-127	0	0-20	
Arsenic	95	94	80-120	73-127	1	0-20	
Barium	102	102	80-120	73-127	0	0-20	
Beryllium	93	94	80-120	73-127	0	0-20	
Cadmium	98	97	80-120	73-127	0	0-20	
Chromium	95	95	80-120	73-127	0	0-20	
Cobalt	105	104	80-120	73-127	1	0-20	
Copper	102	102	80-120	73-127	0	0-20	
Lead	101	100	80-120	73-127	1	0-20	
Molybdenum	100	99	80-120	73-127	2	0-20	
Nickel	100	100	80-120	73-127	0	0-20	
Selenium	90	90	80-120	73-127	0	0-20	
Silver	99	99	80-120	73-127	0	0-20	
Thallium	100	99	80-120	73-127	1	0-20	
Vanadium	96	96	80-120	73-127	0	0-20	
Zinc	98	97	80-120	73-127	1	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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:	09-02-2187
Emeryville, CA 94608-2008		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-641	**Solid**	**GC 46**	**03/02/09**	**03/02/09**	**090302B03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	91	87	75-123	4	0-12	

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: 09-02-2187
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-254-693	**Solid**	**GC 46**	**03/02/09**	**03/02/09**	**090302B04**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	90	91	75-123	0	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

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

Date Received: N/A
Work Order No: 09-02-2187
Preparation: DHS LUFT
Method: DHS LUFT

Project: 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,151	**Solid**	**FLAA**	**03/06/09**	**NONE**	**090306L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	27.1	108	72-126	

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:	09-02-2187
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,155	**Solid**	**Mercury**	**03/03/09**	**03/03/09**	**090303L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	106	106	85-121	0	0-10	

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: 09-02-2187
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2301-2307 Lincol Ave, Alameda

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-305	**Solid**	**GC/MS UU**	**03/02/09**	**03/03/09**	**090302L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	96	96	84-114	79-119	0	0-7	
Carbon Tetrachloride	96	94	66-132	55-143	1	0-12	
Chlorobenzene	98	99	87-111	83-115	1	0-7	
1,2-Dibromoethane	103	105	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	98	100	79-115	73-121	2	0-8	
1,1-Dichloroethene	98	98	73-121	65-129	0	0-12	
Ethylbenzene	103	104	80-120	73-127	1	0-20	
Toluene	97	97	78-114	72-120	0	0-7	
Trichloroethene	97	98	84-114	79-119	2	0-8	
Vinyl Chloride	102	102	63-129	52-140	0	0-15	
Methyl-t-Butyl Ether (MTBE)	101	96	77-125	69-133	5	0-11	
Tert-Butyl Alcohol (TBA)	100	98	47-137	32-152	1	0-27	
Diisopropyl Ether (DIPE)	103	101	76-130	67-139	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	105	103	76-124	68-132	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	105	104	82-118	76-124	0	0-11	
Ethanol	102	102	59-131	47-143	0	0-21	
TPPH	92	90	65-135	53-147	3	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2187

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Denis Brown

INCIDENT # (ENV SERVICES): 9 7 7 6 7 0 4 4 — [ ] CHECK IF NO INCIDENT # APPLIES

PO #

SAP #: 1 6 5 2 5 5

DATE: 2/24/09

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE:

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: shelledf@craworld.com

CONSULTANT PROJECT NO: 60204

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

TELEPHONE: 510-420-3316

FAX: 510-385-0212

E-MAIL: pschaefer@craworld.com

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

LAB USE ONLY: 09-02-2187

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 :

cc: Kari Dupler, kdupler@craworld.com
Call Composite Sample "CRA-A"
Follow attached contingent analysis

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			Container PID Readings or Laboratory Notes
1	CRA-2	2/23/09	[redacted]	SO					X		1	X	X	X											X	X						Composite Samples
2	CRA-3	2/23/09	12:15	SO					X		1	X	X	X											X	X						
3	CRA-6	2/24/09	12:50	SO					X		1	X	X	X											X	X						Call Composite Sample CRA-A
4	CRA-7	2/24/09	13:00	SO					X		1	X	X	X											X	X						
	CRA-A																															

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	Ian O'Malley CEL	2/24/09	1410
[signature] CO GSD 2-24-09 1730	Wobatu CEL	2/25/09	1030

5113337914

05/2/06 Revision

(2187)

Contingent analyses

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

Metal	Trigger level TTLC (mg/kg)	Requirement
Antimony	150	STLC required if TTLC ≥ 150 mg/kg
Arsenic	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Barium	1,000/2,000	STLC required if TTLC ≥ 1,000 mg/kg; STLC and TCLP required if TTLC ≥ 2,000 mg/kg
Beryllium	7.5	STLC required if TTLC ≥ 7.5 mg/kg
Cadmium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Chromium	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Cobalt	800	STLC required if TTLC ≥ 800 mg/kg
Copper	250	STLC required if TTLC ≥ 250 mg/kg
Lead	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Mercury	2/4	STLC required if TTLC ≥ 2 mg/kg; STLC and TCLP required if TTLC ≥ 4 mg/kg
Molybdenum	350	STLC required if TTLC ≥ 350 mg/kg
Nickel	200	STLC required if TTLC ≥ 200 mg/kg
Selenium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Silver	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Thallium	70	STLC required if TTLC ≥ 70 mg/kg
Vanadium	240	STLC required if TTLC ≥ 240 mg/kg
Zinc	2,500	STLC required if TTLC ≥ 2,500 mg/kg

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-[0][2]-[2][1][8][7]

SAMPLE RECEIPT FORM

Cooler [1] of [1]

CLIENT: CRA

DATE: 2/25/09

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

Temperature 2.3 °C - 0.2 °C (CF) = 2.1 °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:** WB

CUSTODY SEALS INTACT:

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

☐ 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.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☐	☐	☑
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 ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: [illegible]

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: hL

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: [illegible]

Calscience
Environmental
Laboratories, Inc.

March 18, 2009

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

Subject: **Calscience Work Order No.: 09-02-2414**
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 2/27/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/27/09
Work Order No: 09-02-2414
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

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
CRA-B	**09-02-2414-5-A**	**02/25/09 00:00**	**Solid**	**ICP 5300**	**03/06/09**	**03/07/09 16:56**	**090306L01**

Comment(s): -Mercury was analyzed on 3/6/2009 9:51:08 PM with batch 090306L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	0.119	0.0835	1	
Arsenic	2.12	0.750	1		Molybdenum	ND	0.250	1	
Barium	45.5	0.500	1		Nickel	25.7	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	30.5	0.250	1		Thallium	ND	0.750	1	
Cobalt	4.41	0.250	1		Vanadium	19.2	0.250	1	
Copper	6.07	0.500	1		Zinc	28.4	1.00	1	
Lead	16.8	0.500	1						

Method Blank	**099-04-007-6,162**	**N/A**	**Solid**	**Mercury**	**03/06/09**	**03/06/09 21:20**	**090306L05**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,101**	**N/A**	**Solid**	**ICP 5300**	**03/06/09**	**03/07/09 16:29**	**090306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Molybdenum	ND	0.250	1	
Barium	ND	0.500	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Cobalt	ND	0.250	1		Vanadium	ND	0.250	1	
Copper	ND	0.500	1		Zinc	ND	1.00	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: 02/27/09
Work Order No: 09-02-2414
Preparation: EPA 3550B
Method: EPA 8015B

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
CRA-B	**09-02-2414-5-A**	**02/25/09 00:00**	**Solid**	**GC 46**	**03/02/09**	**03/02/09 22:49**	**090302B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	133	61-145	

Method Blank	099-12-025-641	N/A	Solid	GC 46	03/02/09	03/02/09 20:14	090302B03

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	61-145	

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: 02/27/09
Work Order No: 09-02-2414
Preparation: EPA 3550B
Method: EPA 8015B (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
CRA-B	**09-02-2414-5-A**	**02/25/09 00:00**	**Solid**	**GC 46**	**03/02/09**	**03/02/09 22:49**	**090302B04**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	133	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-254-693**	**N/A**	**Solid**	**GC 46**	**03/02/09**	**03/02/09 20:14**	**090302B04**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	61-145	

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:	02/27/09
Work Order No:	09-02-2414
Preparation:	DHS LUFT
Method:	DHS LUFT

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
CRA-B	**09-02-2414-5-A**	**02/25/09 00:00**	**Solid**	**FLAA**	**03/11/09**	**03/11/09 15:50**	**090311L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-020-1,148**	**N/A**	**Solid**	**FLAA**	**03/11/09**	**03/11/09 15:50**	**090311L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	02/27/09
5900 Hollis Street, Suite A		Work Order No:	09-02-2414
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

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
CRA-B	**09-02-2414-5-A**	**02/25/09 00:00**	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09 16:33**	**090307L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.0	400		Xylenes (total)	ND	2.0	400	
Ethylbenzene	ND	2.0	400		TPPH	210	200	400	
Toluene	ND	2.0	400						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	73-139		1,2-Dichloroethane-d4	113	73-145	
Toluene-d8	106	90-108		1,4-Bromofluorobenzene	102	71-113	
Toluene-d8-TPPH	105	88-112					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-798-315**	**N/A**	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09 14:25**	**090307L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100		Xylenes (total)	ND	0.50	100	
Ethylbenzene	ND	0.50	100		TPPH	ND	50	100	
Toluene	ND	0.50	100						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	73-139		1,2-Dichloroethane-d4	109	73-145	
Toluene-d8	101	90-108		1,4-Bromofluorobenzene	98	71-113	
Toluene-d8-TPPH	101	88-112					

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/27/09
Work Order No: 09-02-2414
Preparation: EPA 3050B
Method: EPA 6010B

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-03-0363-11	**Solid**	**ICP 5300**	**03/06/09**	**03/07/09**	**090306S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	22	24	50-115	13	0-20	3
Arsenic	96	98	75-125	2	0-20	
Barium	98	103	75-125	1	0-20	
Beryllium	99	99	75-125	1	0-20	
Cadmium	96	97	75-125	1	0-20	
Chromium	97	99	75-125	1	0-20	
Cobalt	99	101	75-125	2	0-20	
Copper	101	104	75-125	2	0-20	
Lead	99	100	75-125	1	0-20	
Molybdenum	82	84	75-125	2	0-20	
Nickel	89	92	75-125	1	0-20	
Selenium	84	82	75-125	2	0-20	
Silver	96	97	75-125	1	0-20	
Thallium	89	88	75-125	1	0-20	
Vanadium	94	97	75-125	1	0-20	
Zinc	93	100	75-125	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/27/09
Work Order No: 09-02-2414
Preparation: EPA 3550B
Method: EPA 8015B

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2190-4	**Solid**	**GC 46**	**03/02/09**	**03/02/09**	**090302S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	85	87	64-130	2	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/27/09
Work Order No: 09-02-2414
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2190-4	**Solid**	**GC 46**	**03/02/09**	**03/02/09**	**090302S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	93	93	64-130	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/27/09
Work Order No: 09-02-2414
Preparation: DHS LUFT
Method: DHS LUFT

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CRA-B	**Solid**	**FLAA**	**03/11/09**	**03/11/09**	**090311S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	77	78	22-148	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/27/09
Work Order No: 09-02-2414
Preparation: EPA 7471A Total
Method: EPA 7471A

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CRA-B	**Solid**	**Mercury**	**03/06/09**	**03/06/09**	**090306S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	87	88	71-137	1	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/27/09
Work Order No: 09-02-2414
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2320-1	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09**	**090307S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	100	79-115	1	0-13	
Carbon Tetrachloride	97	107	55-139	10	0-15	
Chlorobenzene	92	90	79-115	2	0-17	
1,2-Dibromoethane	94	86	70-130	9	0-30	
1,2-Dichlorobenzene	89	82	63-123	8	0-23	
1,1-Dichloroethene	109	111	69-123	2	0-16	
Ethylbenzene	93	93	70-130	1	0-30	
Toluene	99	100	79-115	0	0-15	
Trichloroethene	95	97	66-144	2	0-14	
Vinyl Chloride	137	122	60-126	12	0-14	3
Methyl-t-Butyl Ether (MTBE)	107	99	68-128	8	0-14	
Tert-Butyl Alcohol (TBA)	96	64	44-134	41	0-37	4
Diisopropyl Ether (DIPE)	111	105	75-123	5	0-12	
Ethyl-t-Butyl Ether (ETBE)	106	101	75-117	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	92	79-115	5	0-12	
Ethanol	87	29	42-138	101	0-28	4,3

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: 09-02-2414
Preparation: EPA 3050B
Method: EPA 6010B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,101	**Solid**	**ICP 5300**	**03/06/09**	**03/07/09**	**090306L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	104	104	80-120	73-127	0	0-20	
Arsenic	102	101	80-120	73-127	0	0-20	
Barium	104	104	80-120	73-127	1	0-20	
Beryllium	97	97	80-120	73-127	1	0-20	
Cadmium	104	104	80-120	73-127	0	0-20	
Chromium	101	101	80-120	73-127	0	0-20	
Cobalt	109	109	80-120	73-127	0	0-20	
Copper	102	103	80-120	73-127	0	0-20	
Lead	109	109	80-120	73-127	0	0-20	
Molybdenum	108	108	80-120	73-127	0	0-20	
Nickel	107	108	80-120	73-127	0	0-20	
Selenium	103	103	80-120	73-127	0	0-20	
Silver	101	101	80-120	73-127	1	0-20	
Thallium	105	105	80-120	73-127	1	0-20	
Vanadium	99	99	80-120	73-127	0	0-20	
Zinc	105	105	80-120	73-127	0	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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:	09-02-2414
Emeryville, CA 94608-2008		Preparation:	EPA 3550B
		Method:	EPA 8015B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-641	**Solid**	**GC 46**	**03/02/09**	**03/02/09**	**090302B03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	91	87	75-123	4	0-12	

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: 09-02-2414
Preparation: EPA 3550B
Method: EPA 8015B (M)

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-254-693	**Solid**	**GC 46**	**03/02/09**	**03/02/09**	**090302B04**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	90	91	75-123	0	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Conestoga-Rovers & Associates		Date Received:	N/A
5900 Hollis Street, Suite A		Work Order No:	09-02-2414
Emeryville, CA 94608-2008		Preparation:	DHS LUFT
		Method:	DHS LUFT

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

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,148	**Solid**	**FLAA**	**03/11/09**	**NONE**	**090311L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	25.5	102	72-126	

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:	09-02-2414
Preparation:	EPA 7471A Total
Method:	EPA 7471A

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,162	**Solid**	**Mercury**	**03/06/09**	**03/06/09**	**090306L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	106	105	85-121	1	0-10	

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: 09-02-2414
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-315	**Solid**	**GC/MS PP**	**03/07/09**	**03/07/09**	**090307L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	103	103	84-114	79-119	1	0-7	
Carbon Tetrachloride	108	116	66-132	55-143	7	0-12	
Chlorobenzene	97	97	87-111	83-115	0	0-7	
1,2-Dibromoethane	98	100	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	95	94	79-115	73-121	1	0-8	
1,1-Dichloroethene	110	111	73-121	65-129	1	0-12	
Ethylbenzene	99	99	80-120	73-127	0	0-20	
Toluene	103	104	78-114	72-120	1	0-7	
Trichloroethene	102	103	84-114	79-119	1	0-8	
Vinyl Chloride	120	121	63-129	52-140	1	0-15	
Methyl-t-Butyl Ether (MTBE)	111	115	77-125	69-133	3	0-11	
Tert-Butyl Alcohol (TBA)	94	98	47-137	32-152	4	0-27	
Diisopropyl Ether (DIPE)	114	116	76-130	67-139	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	112	116	76-124	68-132	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	105	107	82-118	76-124	3	0-11	
Ethanol	98	97	59-131	47-143	2	0-21	
TPPH	113	106	65-135	53-147	6	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2414

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Denis Brown

INCIDENT # (ENV SERVICES): 97670744 [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 2/26/09

PO #:

SAP #: 165255

PAGE: 1 of 1

SAMPLING COMPANY	Conestoga-Rovers & Associates
LOG CODE	
ADDRESS	5900 Hollis Street, Suite A, Emeryville, CA 94608
PROJECT CONTACT (Hardcopy or PDF Report to)	Peter Schaefer
TELEPHONE	510-420-3316
FAX	510-385-0212
E-MAIL	pschaefer@craworld.com
SITE ADDRESS: Street and City	2301-2307 Lincoln Ave, Alameda
State	CA
GLOBAL ID NO.	TO6179714590
EDF DELIVERABLE TO (Name, Company, Office Location)	Brenda Carter, CRA, Emeryville
PHONE NO	510-420-3343
E-MAIL	shelledf@craworld.com
CONSULTANT PROJECT NO.	60204
SAMPLER NAME(S) (Print)	Erin Reinhart-Koylu
LAB USE ONLY	09-02-2414

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 :

cc: Kari Dupler, kdupler@craworld.com
Name composite Sample "CRA-B"
Follow attached contingent analysis

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	CRA-8	2/25/09	10:00	SO					X		1	X	X	X											X	X				Composite Samples
2	CRA-9	2/25/09	13:45	SO					X		1	X	X	X											X	X				Name New Composite
3	CRA-10	2/25/09	15:00	SO					X		1	X	X	X											X	X				Sample
4	CRA-12	2/25/09	16:30	SO					X		1	X	X	X											X	X				"CRA-B"

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) TO 2-26-09 650 1730	Received by: (Signature) CEL CA	Date: 022709	Time: 1000
Relinquished by: (Signature) SIB 57657	Received by: (Signature)	Date:	Time:

05/2/06 Revision

2414

Contingent analyses

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

Metal	Trigger level TTLC (mg/kg)	Requirement
Antimony	150	STLC required if TTLC ≥ 150 mg/kg
Arsenic	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Barium	1,000/2,000	STLC required if TTLC ≥ 1,000 mg/kg; STLC and TCLP required if TTLC ≥ 2,000 mg/kg
Beryllium	7.5	STLC required if TTLC ≥ 7.5 mg/kg
Cadmium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Chromium	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Cobalt	800	STLC required if TTLC ≥ 800 mg/kg
Copper	250	STLC required if TTLC ≥ 250 mg/kg
Lead	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Mercury	2/4	STLC required if TTLC ≥ 2 mg/kg; STLC and TCLP required if TTLC ≥ 4 mg/kg
Molybdenum	350	STLC required if TTLC ≥ 350 mg/kg
Nickel	200	STLC required if TTLC ≥ 200 mg/kg
Selenium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Silver	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Thallium	70	STLC required if TTLC ≥ 70 mg/kg
Vanadium	240	STLC required if TTLC ≥ 240 mg/kg
Zinc	2,500	STLC required if TTLC ≥ 2,500 mg/kg

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2414

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 02/27/09

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

Temperature 2.9 °C - 0.2 °C (CF) = 2.7 °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:** NC

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☐	☐	☑
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 ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: DL

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: SO

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: DL

Calscience Environmental Laboratories, Inc.

March 16, 2009

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

Subject: **Calscience Work Order No.: 09-02-2550**
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 2/28/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/28/09
Work Order No: 09-02-2550
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

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
CRA-C	**09-02-2550-3-A**	**02/27/09 00:00**	**Solid**	**ICP 5300**	**03/03/09**	**03/04/09 13:24**	**090303L02A**

Comment(s): -Mercury was analyzed on 3/4/2009 12:53:18 PM with batch 090303L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.89	0.750	1		Molybdenum	ND	0.250	1	
Barium	51.0	0.500	1		Nickel	28.5	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	31.8	0.250	1		Thallium	ND	0.750	1	
Cobalt	4.58	0.250	1		Vanadium	20.0	0.250	1	
Copper	7.86	0.500	1		Zinc	32.6	1.00	1	
Lead	17.5	0.500	1						

Method Blank	**099-04-007-6,155**	**N/A**	**Solid**	**Mercury**	**03/03/09**	**03/03/09 14:11**	**090303L03**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,090**	**N/A**	**Solid**	**ICP 5300**	**03/03/09**	**03/03/09 20:21**	**090303L02A**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Molybdenum	ND	0.250	1	
Barium	ND	0.500	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Cobalt	ND	0.250	1		Vanadium	ND	0.250	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received: 02/28/09
5900 Hollis Street, Suite A	Work Order No: 09-02-2550
Emeryville, CA 94608-2008	Preparation: EPA 3550B
	Method: EPA 8015B

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
CRA-C	**09-02-2550-3-A**	**02/27/09 00:00**	**Solid**	**GC 47**	**03/05/09**	**03/05/09 21:41**	**090305B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-025-645**	**N/A**	**Solid**	**GC 47**	**03/05/09**	**03/05/09 19:05**	**090305B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	101	61-145	

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: 02/28/09
Work Order No: 09-02-2550
Preparation: EPA 3550B
Method: EPA 8015B (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
CRA-C	**09-02-2550-3-A**	**02/27/09 00:00**	**Solid**	**GC 47**	**03/05/09**	**03/05/09 21:41**	**090305B10**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-254-695**	**N/A**	**Solid**	**GC 47**	**03/05/09**	**03/05/09 19:05**	**090305B10**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	101	61-145	

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: 02/28/09
Work Order No: 09-02-2550
Preparation: DHS LUFT
Method: DHS LUFT

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
CRA-C	**09-02-2550-3-A**	**02/27/09 00:00**	**Solid**	**FLAA**	**03/06/09**	**03/06/09 15:50**	**090306L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	1.10	1.00	1		mg/kg

Method Blank	099-10-020-1,149	N/A	Solid	FLAA	03/06/09	03/06/09 15:50	090306L01

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	02/28/09
5900 Hollis Street, Suite A		Work Order No:	09-02-2550
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

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
CRA-C	**09-02-2550-3-A**	**02/27/09 00:00**	**Solid**	**GC/MS PP**	**03/09/09**	**03/09/09 20:02**	**090309L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		TPPH	ND	0.50	1	
Toluene	ND	0.0050	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	73-139		1,2-Dichloroethane-d4	111	73-145	
Toluene-d8	102	90-108		1,4-Bromofluorobenzene	95	71-113	
Toluene-d8-TPPH	103	88-112					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-798-316**	**N/A**	**Solid**	**GC/MS PP**	**03/09/09**	**03/09/09 13:04**	**090309L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		TPPH	ND	0.50	1	
Toluene	ND	0.0050	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	73-139		1,2-Dichloroethane-d4	106	73-145	
Toluene-d8	99	90-108		1,4-Bromofluorobenzene	97	71-113	
Toluene-d8-TPPH	100	88-112					

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/28/09
Work Order No: 09-02-2550
Preparation: EPA 3050B
Method: EPA 6010B

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-03-0039-1	**Solid**	**ICP 5300**	**03/03/09**	**03/05/09**	**090303S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	8	5	80-120	45	0-20	3
Arsenic	118	109	80-120	6	0-20	
Barium	4X	4X	80-120	4X	0-20	Q
Beryllium	105	105	80-120	0	0-20	
Cadmium	101	100	80-120	1	0-20	
Chromium	108	99	80-120	4	0-20	
Cobalt	107	103	80-120	3	0-20	
Copper	115	103	80-120	6	0-20	
Lead	104	95	80-120	7	0-20	
Molybdenum	88	88	80-120	1	0-20	
Nickel	108	102	80-120	3	0-20	
Selenium	100	97	80-120	3	0-20	
Silver	105	106	75-120	0	0-20	
Thallium	91	92	80-120	1	0-20	
Vanadium	115	104	80-120	4	0-20	
Zinc	108	86	80-120	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/28/09
Work Order No: 09-02-2550
Preparation: EPA 3550B
Method: EPA 8015B

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CRA-C	**Solid**	**GC 47**	**03/05/09**	**03/05/09**	**090305S09**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	94	90	64-130	5	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/28/09
Work Order No: 09-02-2550
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CRA-C	**Solid**	**GC 47**	**03/05/09**	**03/05/09**	**090305S10**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	109	106	64-130	3	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/28/09
Work Order No: 09-02-2550
Preparation: DHS LUFT
Method: DHS LUFT

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-03-0427-1	**Solid**	**FLAA**	**03/06/09**	**03/06/09**	**090306S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	56	54	22-148	3	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/28/09
Work Order No: 09-02-2550
Preparation: EPA 7471A Total
Method: EPA 7471A

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-03-0039-1	**Solid**	**Mercury**	**03/03/09**	**03/03/09**	**090303S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	107	116	80-120	8	0-16	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/28/09
Work Order No: 09-02-2550
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2535-1	**Solid**	**GC/MS PP**	**03/09/09**	**03/09/09**	**090309S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	110	109	79-115	0	0-13	
Carbon Tetrachloride	104	112	55-139	7	0-15	
Chlorobenzene	107	108	79-115	1	0-17	
1,2-Dibromoethane	112	116	70-130	3	0-30	
1,2-Dichlorobenzene	109	109	63-123	0	0-23	
1,1-Dichloroethene	110	111	69-123	1	0-16	
Ethylbenzene	111	111	70-130	1	0-30	
Toluene	110	109	79-115	2	0-15	
Trichloroethene	110	112	66-144	1	0-14	
Vinyl Chloride	103	106	60-126	3	0-14	
Methyl-t-Butyl Ether (MTBE)	117	118	68-128	1	0-14	
Tert-Butyl Alcohol (TBA)	103	108	44-134	5	0-37	
Diisopropyl Ether (DIPE)	119	119	75-123	0	0-12	
Ethyl-t-Butyl Ether (ETBE)	117	117	75-117	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	117	115	79-115	1	0-12	3
Ethanol	104	112	42-138	8	0-28	

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: 09-02-2550
Preparation: EPA 3050B
Method: EPA 6010B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,090	**Solid**	**ICP 5300**	**03/03/09**	**03/03/09**	**090303L02A**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	97	97	80-120	73-127	0	0-20	
Arsenic	95	94	80-120	73-127	1	0-20	
Barium	102	102	80-120	73-127	0	0-20	
Beryllium	93	94	80-120	73-127	0	0-20	
Cadmium	98	97	80-120	73-127	0	0-20	
Chromium	95	95	80-120	73-127	0	0-20	
Cobalt	105	104	80-120	73-127	1	0-20	
Copper	102	102	80-120	73-127	0	0-20	
Lead	101	100	80-120	73-127	1	0-20	
Molybdenum	100	99	80-120	73-127	2	0-20	
Nickel	100	100	80-120	73-127	0	0-20	
Selenium	90	90	80-120	73-127	0	0-20	
Silver	99	99	80-120	73-127	0	0-20	
Thallium	100	99	80-120	73-127	1	0-20	
Vanadium	96	96	80-120	73-127	0	0-20	
Zinc	98	97	80-120	73-127	1	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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:	09-02-2550
Emeryville, CA 94608-2008		Preparation:	EPA 3550B
		Method:	EPA 8015B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-645	**Solid**	**GC 47**	**03/05/09**	**03/05/09**	**090305B09**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	95	101	75-123	6	0-12	

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:	09-02-2550
Preparation:	EPA 3550B
Method:	EPA 8015B (M)

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-254-695	**Solid**	**GC 47**	**03/05/09**	**03/05/09**	**090305B10**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	100	96	75-123	3	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

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

Date Received: N/A
Work Order No: 09-02-2550
Preparation: DHS LUFT
Method: DHS LUFT

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

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,149	**Solid**	**FLAA**	**03/06/09**	**NONE**	**090306L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	27.1	108	72-126	

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:	09-02-2550
Emeryville, CA 94608-2008		Preparation:	EPA 7471A Total
		Method:	EPA 7471A

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,155	**Solid**	**Mercury**	**03/03/09**	**03/03/09**	**090303L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	106	106	85-121	0	0-10	

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: 09-02-2550
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-316	**Solid**	**GC/MS PP**	**03/09/09**	**03/09/09**	**090309L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	106	107	84-114	79-119	1	0-7	
Carbon Tetrachloride	113	119	66-132	55-143	5	0-12	
Chlorobenzene	104	106	87-111	83-115	1	0-7	
1,2-Dibromoethane	107	110	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	106	106	79-115	73-121	0	0-8	
1,1-Dichloroethene	107	110	73-121	65-129	4	0-12	
Ethylbenzene	109	110	80-120	73-127	1	0-20	
Toluene	106	107	78-114	72-120	1	0-7	
Trichloroethene	108	107	84-114	79-119	0	0-8	
Vinyl Chloride	99	104	63-129	52-140	5	0-15	
Methyl-t-Butyl Ether (MTBE)	111	116	77-125	69-133	4	0-11	
Tert-Butyl Alcohol (TBA)	103	105	47-137	32-152	1	0-27	
Diisopropyl Ether (DIPE)	115	120	76-130	67-139	4	0-8	
Ethyl-t-Butyl Ether (ETBE)	113	119	76-124	68-132	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	111	115	82-118	76-124	4	0-11	
Ethanol	103	98	59-131	47-143	5	0-21	
TPPH	100	98	65-135	53-147	2	0-30	

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

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-02-2550

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Denis Brown

PO #:

INCIDENT # (ENV SERVICES): 9 7 7 6 7 0 4 4 [ ] CHECK IF NO INCIDENT # APPLIES

SAP #: 1 6 5 2 5 5

DATE: 2/27/09

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE:

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

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

TELEPHONE: 510-420-3316 FAX: 510-385-0212 E-MAIL: PschaeferC@craworld.com

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

State: CA

GLOBAL ID NO.: TO6179714590

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

PHONE NO: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 60204

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

LAB USE ONLY: 09-02-2550

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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 :

cc: Kari Dupler, kdupler@craworld.com
Composite Sample call sample "CRA-C"
Follow attached contingent analysis

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	Ice	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	CRA-14 } CRA-C	2/26/09	12:45	SO						X	1	X	X	X											X	X						Composit Sample
2	CRA-15 } CRA-C	2/27/09	12:15	So						X	1	X	X	X											X	X						call sample
																																CRA-C

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Erin Reinhart-K	CEL	2-27-09	1315
10 GSD 2-27-09 1730	CEL	2-28-09	0910

511367833

05/2/06 Revision

Contingent analyses

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

Metal	Trigger level TTLC (mg/kg)	Requirement
Antimony	150	STLC required if TTLC ≥ 150 mg/kg
Arsenic	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Barium	1,000/2,000	STLC required if TTLC ≥ 1,000 mg/kg; STLC and TCLP required if TTLC ≥ 2,000 mg/kg
Beryllium	7.5	STLC required if TTLC ≥ 7.5 mg/kg
Cadmium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Chromium	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Cobalt	800	STLC required if TTLC ≥ 800 mg/kg
Copper	250	STLC required if TTLC ≥ 250 mg/kg
Lead	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Mercury	2/4	STLC required if TTLC ≥ 2 mg/kg; STLC and TCLP required if TTLC ≥ 4 mg/kg
Molybdenum	350	STLC required if TTLC ≥ 350 mg/kg
Nickel	200	STLC required if TTLC ≥ 200 mg/kg
Selenium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Silver	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Thallium	70	STLC required if TTLC ≥ 70 mg/kg
Vanadium	240	STLC required if TTLC ≥ 240 mg/kg
Zinc	2,500	STLC required if TTLC ≥ 2,500 mg/kg

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-25550

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Conestoga-Rover

DATE: 2/28/09

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

Temperature 1.9 °C - 0.2 °C (CF) = 1.7 °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:** YL

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☐	☐	☑
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 ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: SO

Reviewed by: WSC

Scanned by: SO

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Calscience Environmental Laboratories, Inc.

March 24, 2009

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

Subject: **Calscience Work Order No.: 09-03-1192**
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 3/13/2009 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/13/09
Work Order No: 09-03-1192
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-1	**09-03-1192-1-A**	**03/11/09 12:24**	**Air**	**GC 39**	**N/A**	**03/13/09 12:31**	**090313L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	8900	1.55		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-2	**09-03-1192-2-A**	**03/11/09 13:03**	**Air**	**GC 39**	**N/A**	**03/13/09 12:40**	**090313L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	9200	1.6		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-3	**09-03-1192-3-A**	**03/11/09 13:33**	**Air**	**GC 39**	**N/A**	**03/13/09 12:49**	**090313L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	11000	1.93		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5	**09-03-1192-4-A**	**03/11/09 14:53**	**Air**	**GC 39**	**N/A**	**03/13/09 13:25**	**090313L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	10000000	98000	17		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-5 DUP	**09-03-1192-5-A**	**03/11/09 15:01**	**Air**	**GC 39**	**N/A**	**03/13/09 13:39**	**090313L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	11000000	90000	15.7		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TRIP BLANK	**09-03-1192-6-A**	**03/11/09 15:10**	**Air**	**GC 39**	**N/A**	**03/13/09 12:19**	**090313L01**

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:	03/13/09
Work Order No:	09-03-1192
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
Method Blank	**098-01-005-1,719**	**N/A**	**Air**	**GC 39**	**N/A**	**03/13/09 09:26**	**090313L01**

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	Date Received:	03/13/09
5900 Hollis Street, Suite A	Work Order No:	09-03-1192
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-15
	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-1	**09-03-1192-1-A**	**03/11/09 12:24**	**Air**	**GC/MS AA**	**N/A**	**03/16/09 22:10**	**090316L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	5.4	2.5	1.55		Toluene	ND	2.9	1.55	
Ethylbenzene	ND	3.4	1.55		Propane	ND	42	1.55	
Methyl-t-Butyl Ether (MTBE)	ND	11	1.55		Butane	ND	18	1.55	
Xylenes (total)	ND	13	1.55		Isobutane	110	18	1.55	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	90	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	96	78-156							

SVP-2	**09-03-1192-2-A**	**03/11/09 13:03**	**Air**	**GC/MS AA**	**N/A**	**03/16/09 22:59**	**090316L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	7.3	2.6	1.6		Toluene	ND	3.0	1.6	
Ethylbenzene	ND	3.5	1.6		Propane	ND	43	1.6	
Methyl-t-Butyl Ether (MTBE)	ND	12	1.6		Butane	ND	19	1.6	
Xylenes (total)	ND	14	1.6		Isobutane	ND	19	1.6	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	97	78-156							

SVP-3	**09-03-1192-3-A**	**03/11/09 13:33**	**Air**	**GC/MS AA**	**N/A**	**03/17/09 19:04**	**090317L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	5.5	3.1	1.93		Toluene	ND	3.6	1.93	
Ethylbenzene	ND	4.2	1.93		Propane	ND	52	1.93	
Methyl-t-Butyl Ether (MTBE)	ND	14	1.93		Butane	ND	23	1.93	
Xylenes (total)	ND	17	1.93		Isobutane	ND	23	1.93	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	94	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	96	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	03/13/09
5900 Hollis Street, Suite A	Work Order No:	09-03-1192
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-15
	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	**09-03-1192-4-A**	**03/11/09 14:53**	**Air**	**GC/MS AA**	**N/A**	**03/17/09 00:42**	**090316L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	11000	1100	680		Toluene	1800	1300	680	
Ethylbenzene	21000	1500	680		Propane	ND	18000	680	
Methyl-t-Butyl Ether (MTBE)	ND	4900	680		Butane	ND	8100	680	
Xylenes (total)	ND	5900	680		Isobutane	ND	8100	680	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	90	57-129			1,2-Dichloroethane-d4	95	47-137		
Toluene-d8	101	78-156							

SVP-5 DUP	**09-03-1192-5-A**	**03/11/09 15:01**	**Air**	**GC/MS AA**	**N/A**	**03/17/09 01:32**	**090316L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	12000	1000	628		Toluene	1600	1200	628	
Ethylbenzene	23000	1400	628		Propane	ND	17000	628	
Methyl-t-Butyl Ether (MTBE)	ND	4500	628		Butane	ND	7500	628	
Xylenes (total)	ND	5500	628		Isobutane	ND	7500	628	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	87	57-129			1,2-Dichloroethane-d4	80	47-137		
Toluene-d8	89	78-156							

TRIP BLANK	**09-03-1192-6-A**	**03/11/09 15:10**	**Air**	**GC/MS AA**	**N/A**	**03/17/09 15:58**	**090317L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Toluene	ND	1.9	1	
Ethylbenzene	ND	2.2	1		Propane	ND	27	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1		Butane	ND	12	1	
Xylenes (total)	ND	8.7	1		Isobutane	ND	12	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	95	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	03/13/09
5900 Hollis Street, Suite A	Work Order No:	09-03-1192
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA TO-15
	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	**095-01-021-7,358**	**N/A**	**Air**	**GC/MS AA**	**N/A**	**03/16/09 14:50**	**090316L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Toluene	ND	1.9	1	
Ethylbenzene	ND	2.2	1		Propane	ND	27	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1		Butane	ND	12	1	
Xylenes (total)	ND	8.7	1		Isobutane	ND	12	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	57-129		1,2-Dichloroethane-d4	98	47-137	
Toluene-d8	94	78-156					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-7,369**	**N/A**	**Air**	**GC/MS AA**	**N/A**	**03/17/09 15:04**	**090317L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Toluene	ND	1.9	1	
Ethylbenzene	ND	2.2	1		Propane	ND	27	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1		Butane	ND	12	1	
Xylenes (total)	ND	8.7	1		Isobutane	ND	12	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	57-129		1,2-Dichloroethane-d4	96	47-137	
Toluene-d8	93	78-156					

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Conestoga-Rovers & Associates	Date Received:	03/13/09
5900 Hollis Street, Suite A	Work Order No:	09-03-1192
Emeryville, CA 94608-2008	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 DUP	**Air**	**GC 39**	**N/A**	**03/13/09**	**090313D01**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	11000000	11000000	1	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: 09-03-1192
Preparation: N/A
Method: EPA TO-15

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,358	**Air**	**GC/MS AA**	**N/A**	**03/16/09**	**090316L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	108	109	60-156	44-172	1	0-40	
Carbon Tetrachloride	106	102	64-154	49-169	3	0-32	
1,2-Dibromoethane	109	106	54-144	39-159	2	0-36	
1,2-Dichlorobenzene	123	119	34-160	13-181	3	0-47	
1,2-Dichloroethane	110	105	69-153	55-167	5	0-30	
1,2-Dichloropropane	120	120	67-157	52-172	0	0-35	
1,4-Dichlorobenzene	120	115	36-156	16-176	4	0-47	
c-1,3-Dichloropropene	118	116	61-157	45-173	1	0-35	
Ethylbenzene	109	105	52-154	35-171	4	0-38	
o-Xylene	108	103	52-148	36-164	4	0-38	
p/m-Xylene	105	101	42-156	23-175	4	0-41	
Tetrachloroethene	113	111	56-152	40-168	2	0-40	
Toluene	102	100	56-146	41-161	2	0-43	
Trichloroethene	106	106	63-159	47-175	0	0-34	
1,1,2-Trichloroethane	112	110	65-149	51-163	2	0-37	
Vinyl Chloride	119	126	45-177	23-199	6	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: 09-03-1192
Preparation: N/A
Method: EPA TO-15

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-7,369	**Air**	**GC/MS AA**	**N/A**	**03/17/09**	**090317L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	107	112	60-156	44-172	4	0-40	
Carbon Tetrachloride	93	96	64-154	49-169	3	0-32	
1,2-Dibromoethane	105	107	54-144	39-159	3	0-36	
1,2-Dichlorobenzene	109	114	34-160	13-181	4	0-47	
1,2-Dichloroethane	97	102	69-153	55-167	5	0-30	
1,2-Dichloropropane	120	125	67-157	52-172	4	0-35	
1,4-Dichlorobenzene	107	110	36-156	16-176	3	0-47	
c-1,3-Dichloropropene	112	117	61-157	45-173	4	0-35	
Ethylbenzene	103	106	52-154	35-171	3	0-38	
o-Xylene	100	105	52-148	36-164	4	0-38	
p/m-Xylene	97	100	42-156	23-175	3	0-41	
Tetrachloroethene	110	113	56-152	40-168	3	0-40	
Toluene	98	102	56-146	41-161	4	0-43	
Trichloroethene	102	106	63-159	47-175	4	0-34	
1,1,2-Trichloroethane	110	113	65-149	51-163	3	0-37	
Vinyl Chloride	113	111	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.

Glossary of Terms and Qualifiers

Work Order Number: 09-03-1192

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

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Denis Brown

INCIDENT # (ENV SERVICES): 9 7 7 6 7 0 4 4 — [ ] CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 1 6 5 2 5 5

DATE: 3/11/2009

PAGE: 1 of 1

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: shelledf@craworld.com	CONSULTANT PROJECT NO: CRA# 060204
PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer		SAMPLER NAME(S) (Print): Erin Reinhart-Koylu		LAB USE ONLY: 09-03-1192
TELEPHONE: 510-420-3319	FAX: 510-420-9170	E-MAIL: pschaefer@craworld.com		

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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:

Please report results in µg/m3

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

No partial lab reports, send final PDF report only.

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPHg (TO-3)	BTEX (TO-15)	MTBE (TO-15)	isobutane, butane, & propane (TO-15, GC/MS)	Summa # or Laboratory Notes
1	SVP-1	3/11/09	12:24	Air						1	X	X	X	X	Summa LC342
2	SVP-2	3/11/09	13:03	Air						1	X	X	X	X	Summa LC221
3	SVP-3	3/11/09	13:33	Air						1	X	X	X	X	Summa LC362
	~~SVP-4~~ ERK	~~3/11/09~~		~~Air~~							~~X~~	~~X~~	~~X~~	~~X~~	~~Summa LC276~~
4	SVP-5	3/11/09	14:53	Air						1	X	X	X	X	Summa LC439
5	SVP-5 DUP	3/11/09	15:01	Air						1	X	X	X	X	Summa LC096
6	TRIP BLANK	3/11/09	15:10	Air						1	X	X	X	X	Summa LC395

TEMPERATURE ON RECEIPT C°

Relinquished by (Signature)	Received by (Signature)	Date	Time
Erin Reinhart-Koylu	Seema Location	3/11/09	15:20
Hans Cal	Tom O'Malley CTC	3/12/09	1120
Tom Malley TO GSO 3/12/09 1730	Tom O'Malley CTC	3/13/09	10:30

GSO #5114491182

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-03-1 1 9 2

SAMPLE RECEIPT FORM

BOX
Cooler 1 of 1

CLIENT: CRA **DATE:** 03 / 13 / 09

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

Temperature ____.____ °C - 0.2 °C (CF) = ____.____ °C ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

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

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

Ambient Temperature: ☑ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** PS

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☐	☐	☑
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 ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☑Summa® ☐_____

Checked/Labeled by: JD

Container: **C**:Clear **A**:Amber **P**:Poly/Plastic **G**:Glass **J**:Jar **B**:Bottle

Reviewed by: BC

Preservative: **h**:HCL **n**:HNO_3 **na_2**:$Na_2S_2O_3$ **na**:NaOH **po_4**:H_3PO_4 **s**:H_2SO_4 **znna**:$ZnAc_2$+NaOH

Scanned by: JD

APPENDIX E

SOIL VAPOR PROBE SAMPLING PROCEDURE

SOIL VAPOR PROBE SAMPLING PROCEDURE

A soil vapor sample will be collected from sampling point SVP-5 in a Tedlar bag. Since sampling is affected by rain, it is CRA standard procedure to allow two days or more after a heavy rain event prior to collecting soil vapor samples.

Probe Sampling: Sampling of soil vapor probe SVP-5 will be performed using a vacuum pump and Tedlar bags. Prior to sampling, the probe will be purged of at least three tubing volumes of air using a vacuum pump. A sealed "lung sampler" containing a 1-liter Tedlar bag will be attached to the probe and the vacuum pump will be attached to the box. The vacuum pump will lower the pressure in the "lung sampler" and draw air from the probe into the Tedlar bag. To avoid breakage, bags will be filled no more than two-thirds full. Each sample will be labeled, documented on a chain-of-custody, placed in a protective box at room temperature, and submitted to a California State-Certified laboratory for analysis within 72 hours.

Leak Testing: To check the system for leaks, a containment unit (or shroud) will be placed to cover the soil gas probe surface casing and sampling equipment. Prior to soil gas probe purging, helium will be introduced into the containment unit to obtain a minimum 50 percent helium content level. The helium content within the containment unit will be confirmed using a helium meter. The helium meter readings will be recorded in CRA's field notes. Helium will continue to be introduced to the containment unit during soil gas probe purging and sampling.

In the event that the soil vapor samples contain a helium content of greater than 10 percent of the source concentration (i.e., 10 percent of the helium content measured within the containment unit), the soil gas sample will be considered invalid.

Chemical Analysis: Vapor samples will be analyzed for benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B and for helium by ASTM D Method 1946 (M).