



**CONESTOGA-ROVERS  
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## TRANSMITTAL

DATE: September 11, 2013 REFERENCE NO.: 240366

PROJECT NAME: 999 San Pablo Avenue, Albany

TO: Jerry Wickham

Alameda County Environmental Health

1131 Harbor Bay Parkway, Suite 250

Alameda, California 94502-6577

Please find enclosed:  Draft  Final  
 Originals  Other  
 Prints

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

QUANTITY	DESCRIPTION
1	Subsurface Investigation Report

As Requested  For Review and Comment  
 For Your Use

**COMMENTS:**  
If you have any questions regarding the content of this document, please call the CRA project manager Peter Schaefer at (510) 420-3319 or the Shell program manager Perry Pineda at (425) 413-1164.

Copy to: Perry Pineda, Shell Oil Products US (electronic copy)  
Gregg Biggs (property owner), 3640 Valley Road, Casper, WY 82604  
Sam Anabi (lessee), CAR Enterprises, 1040 North Benson Avenue, Upland, CA 91786-2157  
Larry Turner, CAR Enterprises (electronic copy)

Completed by: Peter Schaefer Signed: *Peter Schaefer*

Filing: Correspondence File



Mr. Jerry Wickham  
Alameda County Environmental Health  
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Alameda, California 94502-6577

**Shell Oil Products US**  
Soil and Groundwater Focus Delivery Group  
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Internet <http://www.shell.com>

Re: 999 San Pablo Avenue  
Albany, California  
SAP Code 135037  
Incident No. 98995143  
ACEH Case No. RO0000121

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 (425) 413-1164 with any questions or concerns.

Sincerely,  
Shell Oil Products US

A handwritten signature in black ink, appearing to read "Perry Pineda", located below the typed name.

Perry Pineda  
Senior Environmental Program Manager



## **SUBSURFACE INVESTIGATION REPORT**

**SHELL-BRANDED SERVICE STATION  
999 SAN PABLO AVENUE  
ALBANY, CALIFORNIA**

**SAP CODE            135037  
INCIDENT NO.      98995143  
AGENCY NO.        RO0000121**

**SEPTEMBER 11, 2013  
REF. NO. 240366 (16)**

This report is printed on recycled paper.

**Prepared by:  
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## TABLE OF CONTENTS

	<u>Page</u>
EXECUTIVE SUMMARY .....	i
1.0 INTRODUCTION.....	1
2.0 INVESTIGATION RESULTS .....	1
2.1 PERMITS .....	1
2.2 DRILLING DATE.....	1
2.3 DRILLING COMPANY .....	1
2.4 CRA PERSONNEL.....	2
2.5 DRILLING METHOD.....	2
2.6 NUMBER OF BORINGS .....	2
2.7 BORING DEPTH.....	2
2.8 GROUNDWATER DEPTH.....	2
2.9 SOIL DISPOSAL.....	2
3.0 FINDINGS .....	3
3.1 SOIL .....	3
3.2 GRAB GROUNDWATER .....	3
4.0 CONCLUSIONS .....	3
5.0 RECOMMENDATIONS .....	3

LIST OF FIGURES  
(Following Text)

FIGURE 1	VICINITY MAP
FIGURE 2	SOIL AND GRAB GROUNDWATER CONCENTRATION MAP

LIST OF TABLES  
(Following Text)

TABLE 1	HISTORICAL SOIL ANALYTICAL DATA
TABLE 2	GRAB GROUNDWATER ANALYTICAL DATA

LIST OF APPENDICES

APPENDIX A	PERMITS
APPENDIX B	BORING LOG
APPENDIX C	TESTAMERICA LABORATORIES, INC. - ANALYTICAL REPORTS

## EXECUTIVE SUMMARY

- One off-site soil boring (B-9) was drilled during this investigation to evaluate soil and groundwater conditions down gradient from the site.
- No TPHg, BTEX, MTBE, TBA, 1,2-DCA, or EDB was detected in soil or grab groundwater samples collected from the boring.
- Based on these results and current soil and groundwater conditions, CRA recommends closure of this environmental case.

## 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 subsurface investigation at this site. The purpose of the investigation was to evaluate soil and groundwater conditions down gradient from the site. CRA followed the scope of work and procedures presented in our April 9, 2013 *Subsurface Investigation Work Plan*, which was conditionally approved in Alameda County Environmental Health's (ACEH's) April 22, 2013 letter. ACEH's July 2, 2013 electronic correspondence extended the due date for an investigation report to September 13, 2013.

The site is an active Shell-branded service station located on the northeastern corner of San Pablo Avenue and Marin Avenue in a mixed commercial and residential area of Albany, California (Figure 1). The site layout includes a car wash and kiosk, two gasoline underground storage tanks, and two dispenser islands (Figure 2).

A summary of previous work performed at the site and additional background information was submitted in CRA's April 9, 2013 work plan and is not repeated herein.

## 2.0 INVESTIGATION RESULTS

### 2.1 PERMITS

CRA obtained a drilling permit from Alameda County Public Works Agency and an encroachment permit from the City of Albany (Appendix A).

### 2.2 DRILLING DATE

July 23, 2013.

### 2.3 DRILLING COMPANY

Vapor Tech Services.

## 2.4 CRA PERSONNEL

Geologist Patrick O'Connell directed the drilling under the supervision of California Professional Geologist Peter Schaefer.

## 2.5 DRILLING METHOD

Hand auger. Direct push drilling was proposed in CRA's work plan; however, limited access to the boring site due to the City of Albany's construction project on Marin Avenue required using the hand auger drilling method.

## 2.6 NUMBER OF BORINGS

One soil boring (B-9) was drilled during this investigation. The boring specifications and soil types encountered are described on the boring log contained in Appendix B. The boring location is shown on Figure 2.

## 2.7 BORING DEPTH

20 feet below grade (fbg).

## 2.8 GROUNDWATER DEPTH

Groundwater was first encountered at 19.5 fbg.

## 2.9 SOIL DISPOSAL

Soil generated during field activities was temporarily stored on site in a 55-gallon drum, sampled, and profiled for disposal. The laboratory analytical report is presented in Appendix C. Disposal documentation is pending and will be provided upon request.



### 3.0 FINDINGS

#### 3.1 SOIL

The soil chemical analytical data are summarized in Table 1, and total petroleum hydrocarbons as gasoline (TPHg), benzene, and methyl tertiary-butyl ether (MTBE) analytical results are presented on Figure 2. The laboratory analytical report is presented in Appendix C.

#### 3.2 GRAB GROUNDWATER

The grab groundwater chemical analytical data are summarized in Table 2, and TPHg, benzene, and MTBE analytical results are presented on Figure 2. The laboratory analytical report is presented in Appendix C.

### 4.0 CONCLUSIONS

No constituents of concern were detected in the soil or grab groundwater samples.

### 5.0 RECOMMENDATIONS

Based on the results discussed above and current soil and groundwater conditions, CRA recommends closure of this environmental case.

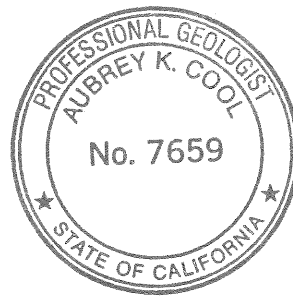
All of Which is Respectfully Submitted,  
CONESTOGA-ROVERS & ASSOCIATES



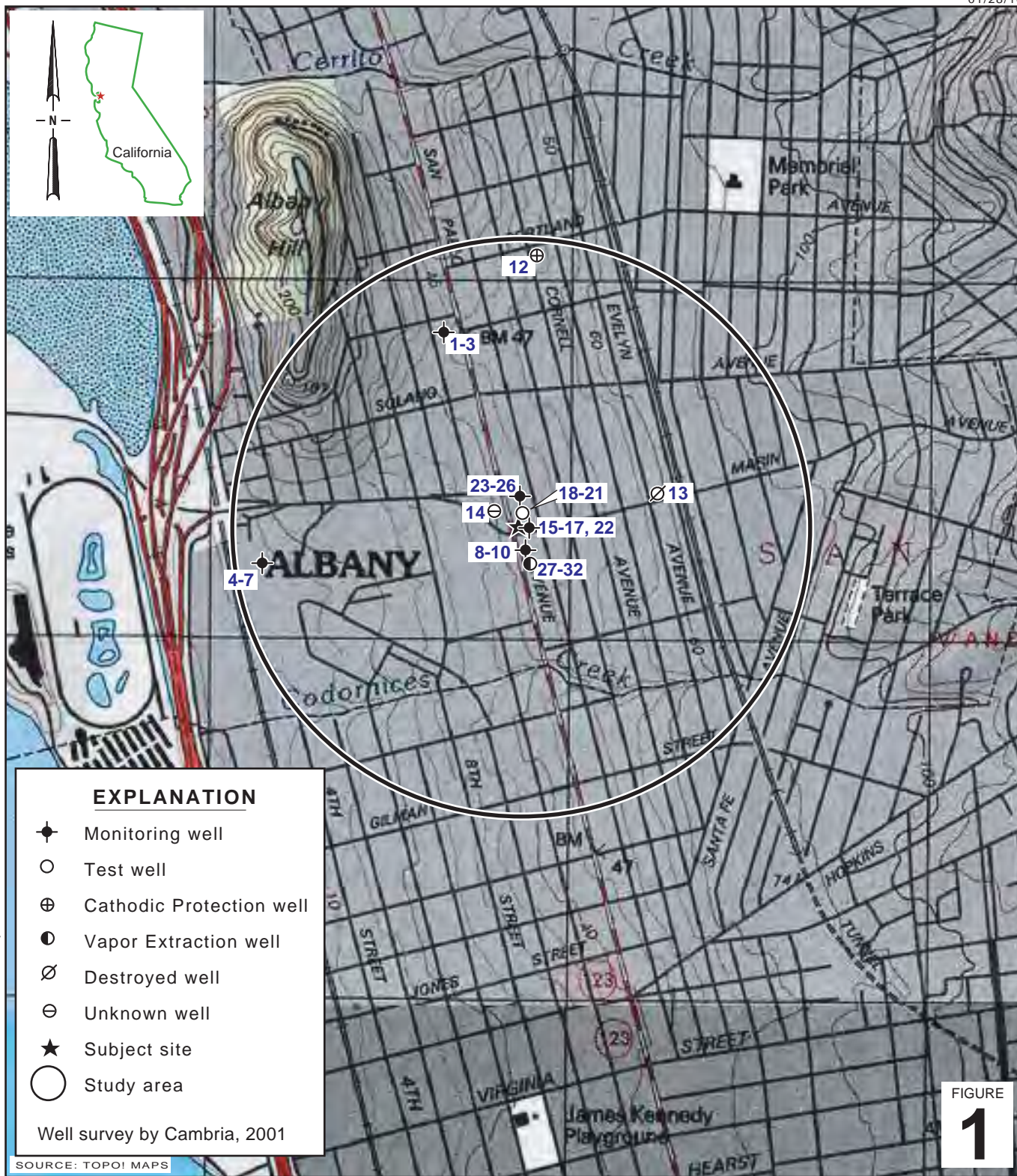
Peter Schaefer, CEG, CHG



Aubrey K. Cool, PG



## FIGURES



I:\Shell\6-charts\2403--\240366-Albany, 999 San Pablo Ave\240366-FIGURES\240366 VICINITY.A1

**Shell-branded Service Station**  
 999 San Pablo Avenue  
 Albany, California



**CONESTOGA-ROVERS  
 & ASSOCIATES**

**Vicinity Map**

**EXPLANATION**

- B-9 ● Soil boring location (Shell, 2013)
- S-1 ● Monitoring well location (Shell)
- RW-1 ■ Recovery well location (Shell)
- SB-1 ○ Soil boring location (Shell, 1990)
- S-7 / Paved-over well location (Shell)
- MW-1 ◆ Monitoring well location (Arco)
- S-5 ◆ Monitoring well approximate location (Arco)
- VW-1 ● Vapor extraction well location (Arco)
- AS-1 ✦ Air sparge well location (Arco)
- RW-1 ▲ Recovery well location (Arco)

- Gas line (G)
- Electrical line (E)
- Electrical vault (E)
- Water line (W)
- Sanitary sewer line (SAN)
- Storm drain line (STM)
- Storm drain inlet

ID	Date	Depth	TPHg	Benzene	MTBE
B-9	07/23/2013	5	<0.10	<0.0020	<0.0050
B-9	07/23/2013	10	<0.10	<0.0020	<0.0050
B-9	07/23/2013	19.5	<0.10	<0.0020	<0.0050

**Notes:**  
 Soil sample ID, date, depth in feet below grade (fbg), and concentrations in milligrams per kilogram  
**TPHg** = Total petroleum hydrocarbons as gasoline  
**MTBE** = Methyl tertiary-butyl ether  
**<X** = Not detected at reporting limit X

ID	Date	Depth	TPHg	Benzene	MTBE
B-9	07/23/2013	5	<50	<0.50	<0.50

**Notes:**  
 Grab groundwater sample ID, date, depth in fbg, and concentrations in micrograms per liter

ID	Date	Depth	TPHg	Benzene	MTBE
B-9	07/23/2013	5	<0.10	<0.0020	<0.0050
B-9	07/23/2013	10	<0.10	<0.0020	<0.0050
B-9	07/23/2013	19.5	<0.10	<0.0020	<0.0050

ID	Date	Depth	TPHg	Benzene	MTBE
B-9	07/23/2013	5	<50	<0.50	<0.50

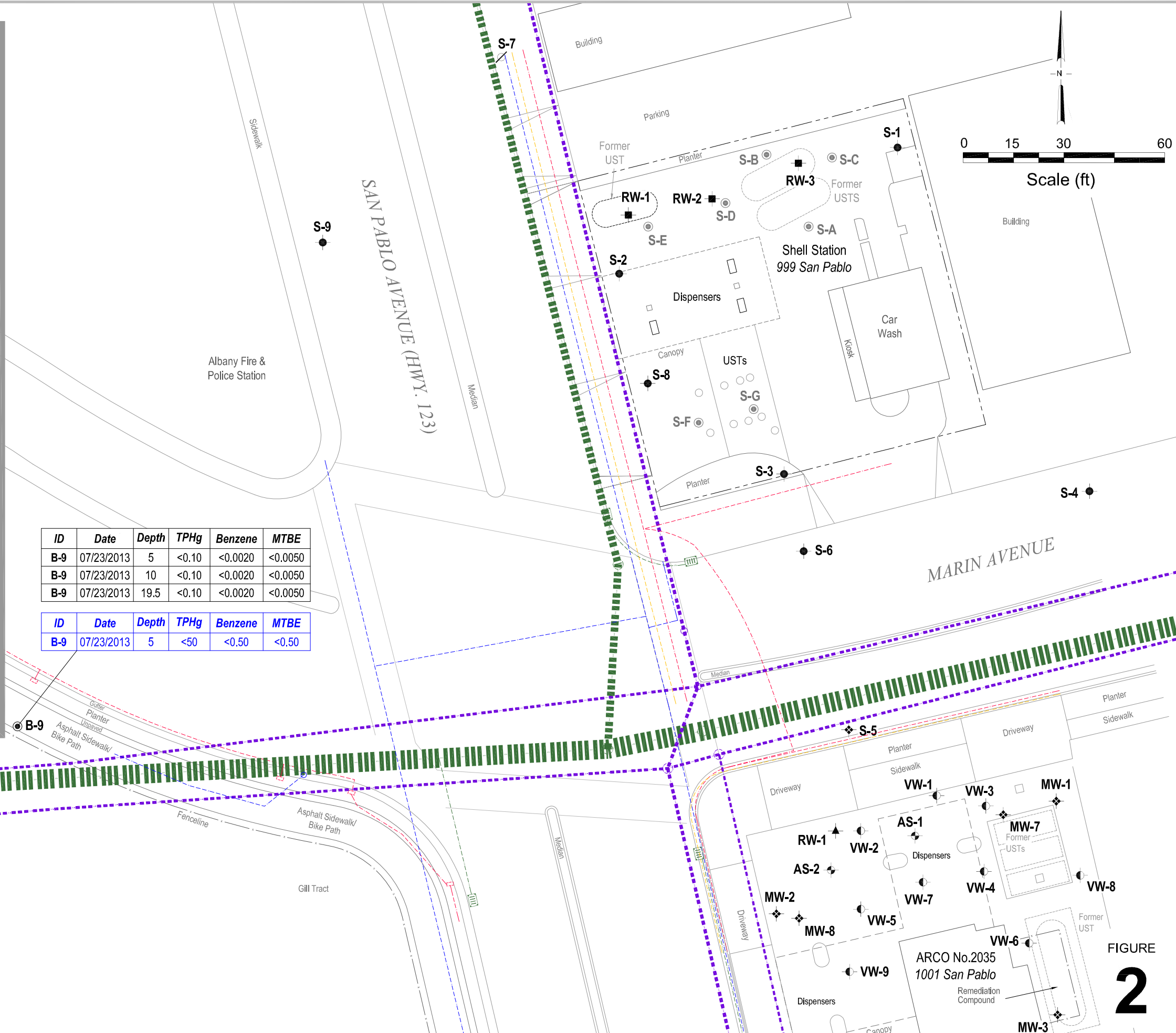


FIGURE  
**2**

## TABLES

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA  
SHELL-BRANDED SERVICE STATION  
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TPHg (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>1,2-DCA (mg/kg)</i>	<i>EDB (mg/kg)</i>	<i>Ethanol (mg/kg)</i>	<i>Total Lead (mg/kg)</i>
S-A-5'	1/29/1990	5	13	0.26	<0.025	0.46	0.91	---	---	---	---	---	---	---	---	---
S-A-10'	1/29/1990	10	1,900	<b>9.8</b>	<b>10</b>	<b>41</b>	<b>250</b>	---	---	---	---	---	---	---	---	---
S-B-5'	1/29/1990	5	5.6	<0.025	<0.025	0.028	0.09	---	---	---	---	---	---	---	---	---
S-B-15'	1/29/1990	15	<2.5	<0.025	<0.025	<0.025	0.09	---	---	---	---	---	---	---	---	---
S-C-5'	1/29/1990	5	48	<0.2	<0.2	0.27	0.7	---	---	---	---	---	---	---	---	---
S-C-10'	1/29/1990	10	470	<1	1	<b>8</b>	<b>28</b>	---	---	---	---	---	---	---	---	---
S-D-15'	1/29/1990	15	94	0.63	0.31	2.5	1.4	---	---	---	---	---	---	---	---	---
S-E-5'	1/29/1990	5	21	0.38	0.036	0.40	0.44	---	---	---	---	---	---	---	---	---
S-E-10'	1/29/1990	10	<2.5	<0.025	<0.025	0.026	0.06	---	---	---	---	---	---	---	---	---
S-F--5'	1/29/1990	5	<2.5	<0.025	<0.025	<0.025	<0.05	---	---	---	---	---	---	---	---	---
S-F-10'	1/29/1990	10	120	0.44	0.10	<0.8	0.8	---	---	---	---	---	---	---	---	---
S-G-10'	1/29/1990	10	6.5	0.032	<0.025	<0.025	0.07	---	---	---	---	---	---	---	---	---
S-G-15'	1/29/1990	15	<2.5	<0.025	<0.025	<0.025	<0.05	---	---	---	---	---	---	---	---	---
S-1-10'	1/30/1990	10	6.2	<0.06	<0.025	0.096	0.32	---	---	---	---	---	---	---	---	---
S-1-14'	1/30/1990	14	<2.5	<0.025	<0.025	<0.025	<0.05	---	---	---	---	---	---	---	---	---
S-2--5'	1/30/1990	5	<2.5	<0.025	<0.025	<0.025	<0.05	---	---	---	---	---	---	---	---	---
S-2-10'	1/30/1990	10	250	<b>2.5</b>	0.8	<b>6.5</b>	8.6	---	---	---	---	---	---	---	---	---
S-3-10'	1/30/1990	10	18	<0.03	<0.025	<0.025	0.11	---	---	---	---	---	---	---	---	---
S-3-15'	1/30/1990	15	<2.5	<0.025	<0.025	<0.025	<0.05	---	---	---	---	---	---	---	---	---
S-4-5	4/16/1990	5	<2.5	<0.025	<0.025	<0.025	<0.05	---	---	---	---	---	---	---	---	---
S-4-9	4/16/1990	9	<2.5	<0.025	<0.025	<0.025	<0.05	---	---	---	---	---	---	---	---	---

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA  
SHELL-BRANDED SERVICE STATION  
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TPHg (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>1,2-DCA (mg/kg)</i>	<i>EDB (mg/kg)</i>	<i>Ethanol (mg/kg)</i>	<i>Total Lead (mg/kg)</i>
S-5-5	4/16/1990	5	<2.5	<0.025	<0.025	<0.025	<0.05	---	---	---	---	---	---	---	---	---
S-5-12	4/16/1990	12	25	0.30	0.12	0.51	1.2	---	---	---	---	---	---	---	---	---
S-5-15	4/16/1990	15	130	1.9	7.5	3.3	<b>18</b>	---	---	---	---	---	---	---	---	---
S-6-6	8/15/1990	6	180	0.2	0.4	0.5	1.5	---	---	---	---	---	---	---	---	---
S-6-9	8/15/1990	9	<b>770</b>	<b>2.2</b>	2.8	<b>6.8</b>	5.1	---	---	---	---	---	---	---	---	---
S-6-19.5	8/15/1990	19.5	<1	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---	---	---
S-7-9	8/15/1990	9	<1	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---	---	---
S-7-19.5	8/15/1990	19.5	<1	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---	---	---
B1-8.0	7/31/1996	8	110	<0.10	0.43	1.1	3.1	---	---	---	---	---	---	---	---	---
B1-13.0	7/31/1996	13	25	<0.050	0.082	0.11	0.20	---	---	---	---	---	---	---	---	---
B1-17.0	7/31/1996	17	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B1-3.0, 8.0, 13.0, 17.0	7/31/1996	a	2.4	0.015	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B2-8.0	7/31/1996	8	6.4	0.0056	0.035	0.021	0.063	---	---	---	---	---	---	---	---	---
B2-13.0	7/31/1996	13	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B2-17.0	7/31/1996	17	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B2-3.0, 8.0, 13.0, 17.0	7/31/1996	a	1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B3-8.0	7/31/1996	8	1.5	0.0058	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B3-13.0	7/31/1996	13	81	0.62	<0.10	0.34	0.56	---	---	---	---	---	---	---	---	---
B3-17.0	7/31/1996	17	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B3-3.0, 8.0, 13.0, 17.0	7/31/1996	a	1.3	0.0064	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B4-8.0	7/31/1996	8	2.2	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B4-13.0	7/31/1996	13	3.2	0.048	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B4-17.0	7/31/1996	17	1.3	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B4-3.0, 8.0, 13.0, 17.0	7/31/1996	a	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B5-8.0	7/31/1996	8	160	<0.0050	0.48	0.45	0.63	---	---	---	---	---	---	---	---	---



TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA  
SHELL-BRANDED SERVICE STATION  
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TPHg (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>1,2-DCA (mg/kg)</i>	<i>EDB (mg/kg)</i>	<i>Ethanol (mg/kg)</i>	<i>Total Lead (mg/kg)</i>
B5-13.0	7/31/1996	13	280	<0.12	1.2	1.2	1.4	---	---	---	---	---	---	---	---	---
B5-3.0, 8.0, 13.0	7/31/1996	a	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B6-8.0	7/31/1996	8	81	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B6-13.0	7/31/1996	13	87	<0.050	0.39	0.27	0.57	---	---	---	---	---	---	---	---	---
B6-17.0	7/31/1996	17	<1.0	<0.10	0.28	0.29	0.52	---	---	---	---	---	---	---	---	---
B6-3.0, 8.0, 13.0, 17.0	7/31/1996	a	2.4	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
B7-8.0	7/31/1996	8	22	<0.025	<0.025	0.086	0.18	---	---	---	---	---	---	---	---	---
B7-13.0	7/31/1996	13	65	<0.025	<0.025	0.10	0.26	---	---	---	---	---	---	---	---	---
B7-17.0	7/31/1996	17	20	<0.012	0.089	0.071	0.13	---	---	---	---	---	---	---	---	---
B7-3.0, 8.0, 13.0, 17.0	7/31/1996	a	<1.0	0.012	0.0095	0.011	0.032	---	---	---	---	---	---	---	---	---
B8-8.0	7/31/1996	8	220	<0.012	0.90	1.7	1.6	---	---	---	---	---	---	---	---	---
B8-13.0	7/31/1996	13	<1.0	0.0094	0.0086	0.01	0.038	---	---	---	---	---	---	---	---	---
B8-17.0	7/31/1996	17	<1.0	0.010	0.012	0.11	0.036	---	---	---	---	---	---	---	---	---
B8-3.0, 8.0, 13.0, 17.0	7/31/1996	a	<1.0	<0.0050	0.0088	0.0056	0.018	---	---	---	---	---	---	---	---	---
SW-8	10/25/1996	8	260	<0.10	0.53	0.36	1.3	<0.50	---	---	---	---	---	---	---	---
SW-12	10/25/1996	12	6.6	0.047	0.028	0.019	0.069	0.042	---	---	---	---	---	---	---	---
SW-15	10/25/1996	15	4.9	0.0055	0.012	0.011	0.036	<0.025	---	---	---	---	---	---	---	---
SC-8	10/25/1996	8	58	<0.050	0.14	0.071	0.26	<0.25	---	---	---	---	---	---	---	---
SC-12	10/25/1996	12	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	---	---	---	---	---	---	---
SC-15	10/25/1996	15	1.9	0.027	0.077	0.036	0.13	0.025	---	---	---	---	---	---	---	---
SE-4.5	10/25/1996	4.5	7.2	0.062	0.0090	0.0071	0.017	<0.025	---	---	---	---	---	---	---	---
SE-8	10/25/1996	8	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	---	---	---	---	---	---	---
SE-12	10/25/1996	12	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	---	---	---	---	---	---	---
SE-15	10/25/1996	15	58	<0.050	<0.050	0.32	0.11	<0.25	---	---	---	---	---	---	---	---
NW-3	10/25/1996	3	3.0	<0.0050	<0.0050	<0.0050	0.0058	<0.025	---	---	---	---	---	---	---	---

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA  
SHELL-BRANDED SERVICE STATION  
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TPHg (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>1,2-DCA (mg/kg)</i>	<i>EDB (mg/kg)</i>	<i>Ethanol (mg/kg)</i>	<i>Total Lead (mg/kg)</i>
NW-8	10/25/1996	8	34	0.32	0.086	0.15	0.20	0.37	---	---	---	---	---	---	---	---
NW-12	10/25/1996	12	<1.0	0.017	<0.0050	0.018	0.014	0.056	---	---	---	---	---	---	---	---
NW-15	10/25/1996	15	<1.0	0.035	<0.0050	0.036	0.013	0.10	---	---	---	---	---	---	---	---
NC-3	10/25/1996	3	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	---	---	---	---	---	---	---
NC-8	10/25/1996	8	<b>1,500</b>	<1.0	<1.0	<b>24</b>	<b>130</b>	<b>8.9</b>	---	---	---	---	---	---	---	---
NC-12	10/25/1996	12	<1.0	<0.0050	<0.0050	0.0059	0.0070	<0.025	---	---	---	---	---	---	---	---
NC-15	10/25/1996	15	4.1	0.037	0.032	0.15	0.34	0.042	---	---	---	---	---	---	---	---
NE-3	10/25/1996	3	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	---	---	---	---	---	---	---
NE-8	10/25/1996	8	<b>620</b>	<0.025	<0.25	<b>5.0</b>	<b>23</b>	3.6	---	---	---	---	---	---	---	---
NE-12	10/25/1996	12	3.4	0.041	0.014	0.064	0.21	0.032	---	---	---	---	---	---	---	---
NE-15	10/25/1996	15	<1.0	0.12	<0.0050	0.021	0.0072	<0.025	---	---	---	---	---	---	---	---
E-1, 10.5	10/22/1996	10.5	250	1.6	<0.12	0.18	1.9	4.1	---	---	---	---	---	---	---	---
E-2, 10.5	10/22/1996	10.5	<b>6,000</b>	<b>35</b>	3.2	2.9	<b>340</b>	<b>15</b>	---	---	---	---	---	---	---	---
E-3, 11	10/22/1996	11	150	1.3	<0.025	0.071	4.1	0.95	---	---	---	---	---	---	---	---
E-4, 11	10/22/1996	11	9.9	0.12	0.020	<0.0050	0.22	0.99	---	---	---	---	---	---	---	---
E-5, 11	10/22/1996	11	1,100	<b>5.7</b>	0.91	<0.50	<b>44</b>	6.8	---	---	---	---	---	---	---	---
E-6, 10.5	10/22/1996	10.5	<b>6,400</b>	<b>44</b>	<b>41</b>	<b>60</b>	<b>450</b>	<b>30</b>	---	---	---	---	---	---	---	---
E-7, 10.5	11/1/1996	10.5	29	0.11	<0.025	0.23	0.43	1.6	---	---	---	---	---	---	---	12
E-8, 10.5	11/1/1996	10.5	2,300	<b>9.5</b>	2.9	<b>42</b>	<b>70</b>	<b>18</b>	---	---	---	---	---	---	---	9.9
E-9, 10.5	11/1/1996	10.5	140	<0.25	<0.25	0.25	0.80	<1.2	---	---	---	---	---	---	---	9.4
E-10, 10.5	11/1/1996	10.5	400	1.1	0.79	1.6	4.9	2.7	---	---	---	---	---	---	---	10
E-11, 10.5	11/1/1996	10.5	660	<b>3.0</b>	2.8	<b>11</b>	<b>53</b>	8.1	---	---	---	---	---	---	---	6.8
E-12, 10.5	11/1/1996	10.5	<b>4,600</b>	<b>38</b>	<b>18</b>	<b>76</b>	<b>39</b>	<b>9.4</b>	---	---	---	---	---	---	---	30
D-1	11/1/1996		<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.17	---	---	---	---	---	---	---	11
D-2	11/1/1996		30	0.050	0.13	0.28	0.31	2.0	---	---	---	---	---	---	---	8.2
D-3	11/1/1996		<b>1,900</b>	<1.2	2.7	11	29	<6.2	---	---	---	---	---	---	---	21
D-4	11/1/1996		2.0	0.0053	<0.0050	<0.0050	0.023	0.56	---	---	---	---	---	---	---	5.7
D-5	11/1/1996		2.8	0.029	0.0088	0.0098	0.022	1.3	---	---	---	---	---	---	---	7.1

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA  
SHELL-BRANDED SERVICE STATION  
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TPHg (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>1,2-DCA (mg/kg)</i>	<i>EDB (mg/kg)</i>	<i>Ethanol (mg/kg)</i>	<i>Total Lead (mg/kg)</i>
P-1	11/1/1996		1.3	0.013	<0.0050	0.0061	0.017	0.89	---	---	---	---	---	---	---	8.3
P-2	11/1/1996		22	0.061	<0.025	0.24	0.12	10	---	---	---	---	---	---	---	8.7
P-3	11/1/1996		2.1	0.046	<0.0050	0.0087	0.024	4.1	---	---	---	---	---	---	---	8.7
P-4	11/1/1996		12	0.078	0.027	0.066	0.97	1.9	---	---	---	---	---	---	---	6.7
V-1	11/1/1996		280	<b>1.4</b>	1.1	0.75	2.6	<1.2	---	---	---	---	---	---	---	6.9
V-2	11/1/1996		2.9	0.021	0.014	<0.0050	<0.0050	0.57	---	---	---	---	---	---	---	6.9
S-8-5'	5/6/2004	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.046	---	---	---	---	---	---	---	---
S-8-9.5'	5/6/2004	9.5	6.1	<0.0050	<0.0050	0.0081	0.0059	0.066	---	---	---	---	---	---	---	---
S-8-15.5'	5/6/2004	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.10	---	---	---	---	---	---	---	---
S-9-6'	5/6/2004	6	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---
S-9-11'	5/6/2004	11	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---
S-9-15.5'	5/6/2004	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---
D-1	12/6/2007	4.5	290	<0.005	<0.005	0.014	0.0079	0.015	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.10	51
D-2	12/6/2007	4.5	<0.10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.10	6.3
D-3a	12/6/2007	4	15	<0.005	<0.005	<0.005	<0.005	0.029	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.10	5.5
D-3b	12/6/2007	5.5	7.8	<0.005	<0.005	<0.005	<0.005	0.27	0.14	<0.005	<0.005	<0.005	<0.005	<0.005	<0.10	6.0
D-3c	12/6/2007	3	<b>1,200</b>	0.063	<0.05	4.5	0.05	0.31	<5.0	<0.025	<0.025	<0.025	<0.025	<0.025	<10	9.6
D-3d	12/6/2007	5.5	430	<0.25	<0.25	3.0	0.35	0.17	<25	<0.12	<0.12	<0.12	<0.12	<0.12	<50	11.0
B-9-5'	7/23/2013	5	<0.10	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.10	---	---	---	<0.0020	<0.0020	---	---
B-9-10'	7/23/2013	10	<0.10	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.10	---	---	---	<0.0020	<0.0020	---	---
B-9-19.5'	7/23/2013	19.5	<0.10	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.10	---	---	---	<0.0020	<0.0020	---	---
<b>Shallow Soil (≤10 fbg) ESL<sup>b</sup>:</b>			500	1.2	9.3	4.7	11	8.4	110	NA	NA	NA	0.91	0.51	NA	320
<b>Deep Soil (&gt;10 fbg) ESL<sup>b</sup>:</b>			2,400	1.2	9.3	4.7	11	8.4	110	NA	NA	NA	0.91	0.51	NA	320

**HISTORICAL SOIL ANALYTICAL DATA  
SHELL-BRANDED SERVICE STATION  
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TPHg (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>1,2-DCA (mg/kg)</i>	<i>EDB (mg/kg)</i>	<i>Ethanol (mg/kg)</i>	<i>Lead (mg/kg)</i>	<i>Total Lead (mg/kg)</i>
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Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before May 6, 2004, analyzed by EPA Method 8015.

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; before May 6, 2004, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; prior to May 6, 2004 analyzed by EPA Method 8020.

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B

EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B

Ethanol analyzed by EPA Method 8260B

Total Lead analyzed by EPA Method 6010

fbg = Feet below grade

mg/kg = Milligrams per kilogram

<x = Not detected at reporting limit x

--- = Not analyzed

ESL = Environmental screening level

NA = No appropriate ESL

Results in **bold** equal or exceed applicable ESL

Shading indicates that soil sample location was subsequently excavated; results are not representative of residual soil.

a = Composite sample

b = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is not a source of drinking water (Tables B and D 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] - Updated May 2013).

**GRAB GROUNDWATER ANALYTICAL DATA  
SHELL-BRANDED SERVICE STATION  
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>1,2-DCA (µg/L)</i>	<i>EDB (µg/L)</i>
B-9-19.5'W	7/23/2013	19.5	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50
<i>Groundwater ESL <sup>a</sup>:</i>			500	27	130	47	100	1,800	18,000	100	77

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B

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

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B

EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B

µg/L = Micrograms per liter

&lt;x = Not detected at reporting limit x

ESL = Environmental screening level

Results in **bold** equal or exceed applicable ESL

a = San Francisco Bay Regional Water Quality Control Board ESL for groundwater where groundwater is a source of drinking water (Table C 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] - Updated May 2013).

APPENDIX A

PERMITS

# Alameda County Public Works Agency - Water Resources Well Permit



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

**Application Approved on: 05/09/2013 By jamesy**

**Permit Numbers: W2013-0349**  
**Permits Valid from 06/07/2013 to 06/07/2013**

**Application Id:** 1367953922702  
**Site Location:** 999 San Pablo Avenue  
**Project Start Date:** 06/07/2013  
**Assigned Inspector:** Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

**City of Project Site:** Albany  
**Completion Date:** 06/07/2013

**Applicant:** Conestoga-Rovers and Associates - Patrick O'Connell  
5900 Hollis Street, Suite A, Emeryville, CA 94608  
**Phone:** 510-420-3324

**Property Owner:** Douglas Patton  
5314 Proctor Avenue, Oakland, CA 94618  
**Phone:** --

**Client:** Perry Pineda  
Shell - 20945 S Wilmington Avenue, Carson, CA 90810  
**Phone:** 425-413-1164

**Contact:** Patrick O'Connell  
**Phone:** 510-420-3324  
**Cell:** 510-681-6142

	<b>Total Due:</b>	\$265.00
<b>Receipt Number: WR2013-0162</b>	<b>Total Amount Paid:</b>	\$265.00
<b>Payer Name : PATRICK J OCONNELL</b>	<b>Paid By: VISA</b>	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Borehole(s) for Investigation-Contamination Study - 1 Boreholes  
Driller: Vapor Tech Services - Lic #: 916085 - Method: DP

**Work Total: \$265.00**

**Specifications**

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2013-0349	05/09/2013	09/05/2013	1	3.00 in.	15.00 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.
  
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
  
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
  
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

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

permits and requirements have been approved or obtained.

5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to [stevem@acpwa.org](mailto:stevem@acpwa.org) at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

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

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

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# City of Albany



## ENCROACHMENT PERMIT

510.528.5760

PERMANENT OR TEMPORARY CONSTRUCTION WITHIN CITY RIGHT OF WAY

Buchanan St. @ Gill Tract PERMIT NO. 13-124

LOCATION: (999 SAN PABLO AVENUE, ALBANY)

NAME	ADDRESS	Phone No. Normal/Emergency	Business Lic. No. Workers Comp. No.
Applicant <b>PATRICK O'CONNELL</b>	5900 HOLLIS ST., SUITE A, EMERYVILLE, CA 94608	510.420.3324 510.681.6142	7592 HARTFORD FIRE INSURANCE
Owner: SHELL OIL PRODUCTS US	20945 S. WILMINGTON AVENUE, CARSON, CA 90810	310.834.1297	
Engineer/Architect <b>VAPOR TECH SERVICES</b>	2316 TRIPALDI WAY, HAYWARD, CA 94545	415.378.0415	C-57#916085
Contractor CONESTOGA ROVERS & ASSOC. (CRA)	5900 HOLLIS ST., SUITE A, EMERYVILLE, CA 94608	510.420.0700	7592 #1 WEOH1021

### TYPE OF WORK

- Sidewalk       Curb & Gutter       Sewer       Street Tree  
 Utility Co.       Permanent Structure       Other: \_\_\_\_\_

### DESCRIPTION OF WORK

DRILL ONE (1) BORING, UP TO 15 FEET BELOW GRADE, AND BACKFILL TO GRADE IN ACCORDANCE W/ ALAMEDA COUNTY PUBLIC WORKS AGENCY REQUIREMENTS.

IE PLAN TO AUDIO DRILLING IN ACTUAL SIDEWALK.

### REQUIRED CONDITIONS

Target date June?

- All work shall be in accordance with the attached standard conditions.
- No refund after 120 days or work begins, 70% of fee refundable within 120 days provided no work has begun.
- Permanent structures require City Council approval (City Code 14-2).
- CALL USA 1-800-227-2600 before excavating.  Greg Jacobs - (510) 918-2322
- Call for Final Inspection and Sign-Off 48 hr. in advance at  (510) 528-5760  (510) 524-9543.
- Special Conditions may be imposed following City review and prior to issuance of this permit.

Applicant's Signature: Patrick O'Connell Date: 5/6/2013

STAFF USE ONLY	
<b>Permit Fee Calculation</b>	
Total construction cost subject to fee	
New construction at 8% of construction cost	
In-Lieu slurry seal fee (when street is out)	
Minimum fee per schedule (if greater than % fee)	
Total Fee due (transfer to fee schedule from 10% fee to be billed; copy of permit to Finance)	<b>\$131.09</b>
Special Conditions:	<u>See attached Special Conditions; comply with all Alameda County PWA Conditions</u>
Issued by:	<u>Paul J. [Signature] per JB/GJ</u> Date: <u>6/5/13</u>
Permit Expiration Date:	<u>8/26/13</u> (not to exceed 180 days for date issued)
Final Sign Off by:	<u>[Signature]</u> Date: <u>7/29/13</u>

APPENDIX B

BORING LOG



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-9
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	23-Jul-13
LOCATION	999 San Pablo Avenue, Albany, CA	DRILLING COMPLETED	23-Jul-13
PROJECT NUMBER	240366	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vapor Tech Services C-57, #916085	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hand auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2.75"	SCREENED INTERVALS	NA
LOGGED BY	P. O'Connell	DEPTH TO WATER (First Encountered)	19.50 fbg (23-Jul-13)
REVIEWED BY	P. Schaefer, PG 5612	DEPTH TO WATER (Static)	NA
REMARKS			

WELL LOG (PID) I:\SHELL\6-CHARS\2403-1240366-1240366-21240366-GINT\IGNORE POINTIDS EXCEPT B-9\2013-07-29.GPJ DEFAULT.GDT 8/28/13

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GM		<b>Silty GRAVEL with sand [GM]:</b> Brown (7.5YR 4/3); 20% silt, 30% fine-to-coarse sand, 50% medium gravel; dry.	2.0	
					ML		<b>SILT [ML]:</b> Very dark gray (7.5YR 3/1), mottled reddish-yellow (7.5YR 6/8); 20% clay, 80% silt; moist; medium plasticity. @ 3 fbg - Reddish-yellow (7.5YR 6/8), mottled gray (5Y 5/1).	5.0	
0.0		B-9-5'		5			<b>Silty SAND [SM]:</b> Yellowish-brown (7.5YR 5/4); 5% clay, 30% silt, 60% fine-to-medium sand, 5% medium gravel; moist.		
0.0		B-9-1 0'		10	SM		@ 9 fbg - <b>Silty SAND with gravel [SM]:</b> Dark yellowish-brown (10YR 3/4); 5% clay, 15% silt, 60% fine-to-coarse sand, 20% medium-to-coarse gravel.		
0.0				12			@ 12 fbg - <b>Silty SAND [SM]:</b> Reddish-yellow (7.5YR 6/6), mottled light gray (2.5Y 7/1); 5% clay, 10% silt, 75% fine-to-medium sand; 10% medium-to-coarse gravel.	14.5	
0.0				15	ML		<b>SILT with sand [ML]:</b> Reddish-yellow (7.5YR 6/8), mottled gray (5Y 6/1); 10% clay, 70% silt, 20% fine-to-medium sand; moist; low plasticity.		
0.0				17			@ 17 fbg - Light yellowish-brown (10YR 6/4), mottled yellowish-red (5YR 5/8).		
0.0				18			@ 18 fbg - Light yellowish-brown (10YR 6/4), mottled light gray (2.5Y 7/1)		
0.0		B-9-1 9.5'		20			@ 19.5 fbg - Wet.	20.0	Bottom of Boring @ 20 fbg

APPENDIX C

TESTAMERICA LABORATORIES, INC. -  
ANALYTICAL REPORTS

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

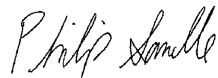
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Irvine  
17461 Derian Ave  
Suite 100  
Irvine, CA 92614-5817  
Tel: (949)261-1022

TestAmerica Job ID: 440-52728-1  
Client Project/Site: 999 San Pablo Ave., Albany, CA

For:  
Conestoga-Rovers & Associates, Inc.  
19449 Riverside Drive, Suite 230  
Sonoma, California 95476

Attn: Peter Schaefer



Authorized for release by:  
8/8/2013 2:13:17 PM

Philip Sanelle, Project Manager I  
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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Sample Summary . . . . .	3
Case Narrative . . . . .	4
Client Sample Results . . . . .	5
Method Summary . . . . .	7
Chronicle . . . . .	8
QC Sample Results . . . . .	9
QC Association . . . . .	17
Definitions . . . . .	19
Certification Summary . . . . .	20
Chain of Custody . . . . .	21
Receipt Checklists . . . . .	24

# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-52728-1	B-9-5'	Solid	07/23/13 08:43	07/25/13 09:45
440-52728-2	B-9-10'	Solid	07/23/13 09:08	07/25/13 09:45
440-52728-3	B-9-19.5'	Solid	07/23/13 10:19	07/25/13 09:45
440-52728-4	B-9-19.5'W	Water	07/23/13 10:55	07/25/13 09:45

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

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**Job ID: 440-52728-1**

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**Laboratory: TestAmerica Irvine**

**Narrative**

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**Job Narrative**  
**440-52728-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/25/2013 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

**GC/MS VOA**

No analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

**Client Sample ID: B-9-5'**

**Lab Sample ID: 440-52728-1**

Date Collected: 07/23/13 08:43

Matrix: Solid

Date Received: 07/25/13 09:45

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/06/13 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 125					08/06/13 22:30	1
4-Bromofluorobenzene (Surr)	96		80 - 120					08/06/13 22:30	1
Toluene-d8 (Surr)	106		80 - 120					08/06/13 22:30	1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020		mg/Kg			08/06/13 22:30	1
Ethylbenzene	ND		0.0020		mg/Kg			08/06/13 22:30	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0050		mg/Kg			08/06/13 22:30	1
tert-Butyl alcohol (TBA)	ND		0.10		mg/Kg			08/06/13 22:30	1
Toluene	ND		0.0020		mg/Kg			08/06/13 22:30	1
Xylenes, Total	ND		0.0040		mg/Kg			08/06/13 22:30	1
1,2-Dibromoethane (EDB)	ND		0.0020		mg/Kg			08/06/13 22:30	1
1,2-Dichloroethane	ND		0.0020		mg/Kg			08/06/13 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120					08/06/13 22:30	1
4-Bromofluorobenzene (Surr)	96		80 - 120					08/06/13 22:30	1
Dibromofluoromethane (Surr)	96		80 - 125					08/06/13 22:30	1

**Client Sample ID: B-9-10'**

**Lab Sample ID: 440-52728-2**

Date Collected: 07/23/13 09:08

Matrix: Solid

Date Received: 07/25/13 09:45

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/05/13 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 - 125					08/05/13 12:46	1
4-Bromofluorobenzene (Surr)	97		80 - 120					08/05/13 12:46	1
Toluene-d8 (Surr)	106		80 - 120					08/05/13 12:46	1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020		mg/Kg			08/05/13 12:46	1
Ethylbenzene	ND		0.0020		mg/Kg			08/05/13 12:46	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0050		mg/Kg			08/05/13 12:46	1
tert-Butyl alcohol (TBA)	ND		0.10		mg/Kg			08/05/13 12:46	1
Toluene	ND		0.0020		mg/Kg			08/05/13 12:46	1
Xylenes, Total	ND		0.0040		mg/Kg			08/05/13 12:46	1
1,2-Dibromoethane (EDB)	ND		0.0020		mg/Kg			08/05/13 12:46	1
1,2-Dichloroethane	ND		0.0020		mg/Kg			08/05/13 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120					08/05/13 12:46	1
4-Bromofluorobenzene (Surr)	97		80 - 120					08/05/13 12:46	1
Dibromofluoromethane (Surr)	94		80 - 125					08/05/13 12:46	1

TestAmerica Irvine

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

**Client Sample ID: B-9-19.5'**

**Lab Sample ID: 440-52728-3**

Date Collected: 07/23/13 10:19

Matrix: Solid

Date Received: 07/25/13 09:45

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/05/13 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	92		80 - 125					08/05/13 18:19	1
4-Bromofluorobenzene (Surr)	93		80 - 120					08/05/13 18:19	1
Toluene-d8 (Surr)	106		80 - 120					08/05/13 18:19	1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020		mg/Kg			08/05/13 18:19	1
Ethylbenzene	ND		0.0020		mg/Kg			08/05/13 18:19	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0050		mg/Kg			08/05/13 18:19	1
tert-Butyl alcohol (TBA)	ND		0.10		mg/Kg			08/05/13 18:19	1
Toluene	ND		0.0020		mg/Kg			08/05/13 18:19	1
Xylenes, Total	ND		0.0040		mg/Kg			08/05/13 18:19	1
1,2-Dibromoethane (EDB)	ND		0.0020		mg/Kg			08/05/13 18:19	1
1,2-Dichloroethane	ND		0.0020		mg/Kg			08/05/13 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120					08/05/13 18:19	1
4-Bromofluorobenzene (Surr)	93		80 - 120					08/05/13 18:19	1
Dibromofluoromethane (Surr)	92		80 - 125					08/05/13 18:19	1

**Client Sample ID: B-9-19.5'W**

**Lab Sample ID: 440-52728-4**

Date Collected: 07/23/13 10:55

Matrix: Water

Date Received: 07/25/13 09:45

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			08/02/13 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 - 120					08/02/13 15:01	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/02/13 15:01	1
Toluene-d8 (Surr)	110		80 - 120					08/02/13 15:01	1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			08/02/13 15:01	1
Ethylbenzene	ND		0.50		ug/L			08/02/13 15:01	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/02/13 15:01	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/02/13 15:01	1
Toluene	ND		0.50		ug/L			08/02/13 15:01	1
Xylenes, Total	ND		1.0		ug/L			08/02/13 15:01	1
1,2-Dichloroethane	ND		0.50		ug/L			08/02/13 15:01	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			08/02/13 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120					08/02/13 15:01	1
Dibromofluoromethane (Surr)	94		80 - 120					08/02/13 15:01	1
Toluene-d8 (Surr)	110		80 - 120					08/02/13 15:01	1

TestAmerica Irvine

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTM S	Volatile Organic Compounds by GC/MS	SW846	TAL IRV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

## Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

**Client Sample ID: B-9-5'**

**Lab Sample ID: 440-52728-1**

Date Collected: 07/23/13 08:43

Matrix: Solid

Date Received: 07/25/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4.99 g	10 mL	122603	08/06/13 22:30	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	4.99 g	10 mL	122604	08/06/13 22:30	AA	TAL IRV

**Client Sample ID: B-9-10'**

**Lab Sample ID: 440-52728-2**

Date Collected: 07/23/13 09:08

Matrix: Solid

Date Received: 07/25/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	122130	08/05/13 12:46	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.02 g	10 mL	122131	08/05/13 12:46	HR	TAL IRV

**Client Sample ID: B-9-19.5'**

**Lab Sample ID: 440-52728-3**

Date Collected: 07/23/13 10:19

Matrix: Solid

Date Received: 07/25/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	122130	08/05/13 18:19	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.02 g	10 mL	122131	08/05/13 18:19	HR	TAL IRV

**Client Sample ID: B-9-19.5'W**

**Lab Sample ID: 440-52728-4**

Date Collected: 07/23/13 10:55

Matrix: Water

Date Received: 07/25/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	121755	08/02/13 15:01	MR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	121756	08/02/13 15:01	MR	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

### QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-121755/4

Matrix: Water

Analysis Batch: 121755

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.50		ug/L			08/02/13 11:29	1
Ethylbenzene	ND		0.50		ug/L			08/02/13 11:29	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/02/13 11:29	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/02/13 11:29	1
Toluene	ND		0.50		ug/L			08/02/13 11:29	1
Xylenes, Total	ND		1.0		ug/L			08/02/13 11:29	1
1,2-Dichloroethane	ND		0.50		ug/L			08/02/13 11:29	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			08/02/13 11:29	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		80 - 120		08/02/13 11:29	1
Dibromofluoromethane (Surr)	95		80 - 120		08/02/13 11:29	1
Toluene-d8 (Surr)	107		80 - 120		08/02/13 11:29	1

Lab Sample ID: LCS 440-121755/5

Matrix: Water

Analysis Batch: 121755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	25.0	24.6		ug/L		99	68 - 130
Ethylbenzene	25.0	26.3		ug/L		105	70 - 130
m,p-Xylene	50.0	55.3		ug/L		111	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	27.7		ug/L		111	63 - 131
o-Xylene	25.0	28.1		ug/L		112	70 - 130
tert-Butyl alcohol (TBA)	125	125		ug/L		100	70 - 130
Toluene	25.0	26.5		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	23.5		ug/L		94	57 - 138
1,2-Dibromoethane (EDB)	25.0	25.8		ug/L		103	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	108		80 - 120

Lab Sample ID: 440-53057-B-7 MS

Matrix: Water

Analysis Batch: 121755

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Benzene	ND		25.0	24.9		ug/L		98	66 - 130
Ethylbenzene	ND		25.0	26.8		ug/L		107	70 - 130
m,p-Xylene	ND		50.0	55.4		ug/L		111	70 - 133
Methyl-t-Butyl Ether (MTBE)	1.0		25.0	28.7		ug/L		111	70 - 130
o-Xylene	ND		25.0	28.2		ug/L		113	70 - 133
tert-Butyl alcohol (TBA)	ND		125	163	F	ug/L		131	70 - 130
Toluene	ND		25.0	27.0		ug/L		108	70 - 130
1,2-Dichloroethane	13		25.0	37.2		ug/L		95	56 - 146

TestAmerica Irvine

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-53057-B-7 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 121755

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dibromoethane (EDB)	ND		25.0	25.6		ug/L		102	70 - 131
<b>MS MS</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	100		80 - 120						
Dibromofluoromethane (Surr)	98		80 - 120						
Toluene-d8 (Surr)	108		80 - 120						

Lab Sample ID: 440-53057-B-7 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 121755

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	ND		25.0	24.7		ug/L		97	66 - 130	1	20
Ethylbenzene	ND		25.0	26.8		ug/L		107	70 - 130	0	20
m,p-Xylene	ND		50.0	54.2		ug/L		108	70 - 133	2	25
Methyl-t-Butyl Ether (MTBE)	1.0		25.0	28.1		ug/L		108	70 - 130	2	25
o-Xylene	ND		25.0	27.5		ug/L		110	70 - 133	3	20
tert-Butyl alcohol (TBA)	ND		125	157		ug/L		125	70 - 130	4	25
Toluene	ND		25.0	26.3		ug/L		105	70 - 130	2	20
1,2-Dichloroethane	13		25.0	36.6		ug/L		93	56 - 146	2	20
1,2-Dibromoethane (EDB)	ND		25.0	25.2		ug/L		101	70 - 131	1	25
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	98		80 - 120								
Dibromofluoromethane (Surr)	97		80 - 120								
Toluene-d8 (Surr)	107		80 - 120								

Lab Sample ID: MB 440-122130/4

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 122130

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.0020		mg/Kg			08/05/13 10:47	1
Ethylbenzene	ND		0.0020		mg/Kg			08/05/13 10:47	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0050		mg/Kg			08/05/13 10:47	1
tert-Butyl alcohol (TBA)	ND		0.10		mg/Kg			08/05/13 10:47	1
Toluene	ND		0.0020		mg/Kg			08/05/13 10:47	1
Xylenes, Total	ND		0.0040		mg/Kg			08/05/13 10:47	1
1,2-Dibromoethane (EDB)	ND		0.0020		mg/Kg			08/05/13 10:47	1
1,2-Dichloroethane	ND		0.0020		mg/Kg			08/05/13 10:47	1
<b>MB MB</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	108		80 - 120					08/05/13 10:47	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/05/13 10:47	1
Dibromofluoromethane (Surr)	105		80 - 125					08/05/13 10:47	1

TestAmerica Irvine

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-122130/5

Matrix: Solid

Analysis Batch: 122130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0463		mg/Kg		93	65 - 120
Ethylbenzene	0.0500	0.0518		mg/Kg		104	70 - 125
m,p-Xylene	0.100	0.109		mg/Kg		109	70 - 125
Methyl-t-Butyl Ether (MTBE)	0.0500	0.0575		mg/Kg		115	60 - 140
o-Xylene	0.0500	0.0568		mg/Kg		114	70 - 125
tert-Butyl alcohol (TBA)	0.250	0.261		mg/Kg		104	70 - 135
Toluene	0.0500	0.0525		mg/Kg		105	70 - 125
1,2-Dibromoethane (EDB)	0.0500	0.0517		mg/Kg		103	70 - 130
1,2-Dichloroethane	0.0500	0.0519		mg/Kg		104	60 - 140

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	108		80 - 125

Lab Sample ID: 440-52728-2 MS

Matrix: Solid

Analysis Batch: 122130

Client Sample ID: B-9-10'

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0497	0.0489		mg/Kg		98	65 - 130
Ethylbenzene	ND		0.0497	0.0572		mg/Kg		115	70 - 135
m,p-Xylene	ND		0.0994	0.120		mg/Kg		120	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		0.0497	0.0533		mg/Kg		107	55 - 155
o-Xylene	ND		0.0497	0.0604		mg/Kg		122	65 - 130
tert-Butyl alcohol (TBA)	ND		0.249	0.260		mg/Kg		105	65 - 145
Toluene	ND		0.0497	0.0556		mg/Kg		112	70 - 130
1,2-Dibromoethane (EDB)	ND		0.0497	0.0530		mg/Kg		107	65 - 140
1,2-Dichloroethane	ND		0.0497	0.0511		mg/Kg		103	60 - 150

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	94		80 - 125

Lab Sample ID: 440-52728-A-2 MSD

Matrix: Solid

Analysis Batch: 122130

Client Sample ID: B-9-10'

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
										RPD	Limit
Benzene	ND		0.0496	0.0508		mg/Kg		102	65 - 130	4	20
Ethylbenzene	ND		0.0496	0.0588		mg/Kg		119	70 - 135	3	25
m,p-Xylene	ND		0.0992	0.122		mg/Kg		123	70 - 130	2	25
Methyl-t-Butyl Ether (MTBE)	ND		0.0496	0.0577		mg/Kg		116	55 - 155	8	35
o-Xylene	ND		0.0496	0.0616		mg/Kg		124	65 - 130	2	25
tert-Butyl alcohol (TBA)	ND		0.248	0.266		mg/Kg		107	65 - 145	2	30
Toluene	ND		0.0496	0.0570		mg/Kg		115	70 - 130	2	20

TestAmerica Irvine

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-52728-A-2 MSD

Client Sample ID: B-9-10'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 122130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		0.0496	0.0567		mg/Kg		114	65 - 140	7	25
1,2-Dichloroethane	ND		0.0496	0.0534		mg/Kg		108	60 - 150	4	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	107		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	95		80 - 125

Lab Sample ID: MB 440-122603/4

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 122603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020		mg/Kg			08/06/13 19:24	1
Ethylbenzene	ND		0.0020		mg/Kg			08/06/13 19:24	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0050		mg/Kg			08/06/13 19:24	1
tert-Butyl alcohol (TBA)	ND		0.10		mg/Kg			08/06/13 19:24	1
Toluene	ND		0.0020		mg/Kg			08/06/13 19:24	1
Xylenes, Total	ND		0.0040		mg/Kg			08/06/13 19:24	1
1,2-Dibromoethane (EDB)	ND		0.0020		mg/Kg			08/06/13 19:24	1
1,2-Dichloroethane	ND		0.0020		mg/Kg			08/06/13 19:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		08/06/13 19:24	1
4-Bromofluorobenzene (Surr)	97		80 - 120		08/06/13 19:24	1
Dibromofluoromethane (Surr)	87		80 - 125		08/06/13 19:24	1

Lab Sample ID: LCS 440-122603/5

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 122603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0467		mg/Kg		93	65 - 120
Ethylbenzene	0.0500	0.0510		mg/Kg		102	70 - 125
m,p-Xylene	0.100	0.108		mg/Kg		108	70 - 125
Methyl-t-Butyl Ether (MTBE)	0.0500	0.0541		mg/Kg		108	60 - 140
o-Xylene	0.0500	0.0541		mg/Kg		108	70 - 125
tert-Butyl alcohol (TBA)	0.250	0.240		mg/Kg		96	70 - 135
Toluene	0.0500	0.0512		mg/Kg		102	70 - 125
1,2-Dibromoethane (EDB)	0.0500	0.0517		mg/Kg		103	70 - 130
1,2-Dichloroethane	0.0500	0.0461		mg/Kg		92	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	93		80 - 125

TestAmerica Irvine



## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-52728-1 MS

Matrix: Solid

Analysis Batch: 122603

Client Sample ID: B-9-5'

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Benzene	ND		0.0502	0.0465		mg/Kg		93	65 - 130
Ethylbenzene	ND		0.0502	0.0531		mg/Kg		106	70 - 135
m,p-Xylene	ND		0.100	0.112		mg/Kg		111	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		0.0502	0.0593		mg/Kg		118	55 - 155
o-Xylene	ND		0.0502	0.0561		mg/Kg		112	65 - 130
tert-Butyl alcohol (TBA)	ND		0.251	0.252		mg/Kg		100	65 - 145
Toluene	ND		0.0502	0.0526		mg/Kg		105	70 - 130
1,2-Dibromoethane (EDB)	ND		0.0502	0.0542		mg/Kg		108	65 - 140
1,2-Dichloroethane	ND		0.0502	0.0481		mg/Kg		96	60 - 150

Surrogate	MS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	99		80 - 125

Lab Sample ID: 440-52728-1 MSD

Matrix: Solid

Analysis Batch: 122603

Client Sample ID: B-9-5'

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Benzene	ND		0.0501	0.0473		mg/Kg		95	65 - 130	2	20
Ethylbenzene	ND		0.0501	0.0519		mg/Kg		104	70 - 135	2	25
m,p-Xylene	ND		0.100	0.109		mg/Kg		109	70 - 130	2	25
Methyl-t-Butyl Ether (MTBE)	ND		0.0501	0.0566		mg/Kg		113	55 - 155	5	35
o-Xylene	ND		0.0501	0.0553		mg/Kg		110	65 - 130	1	25
tert-Butyl alcohol (TBA)	ND		0.251	0.240		mg/Kg		96	65 - 145	5	30
Toluene	ND		0.0501	0.0521		mg/Kg		104	70 - 130	1	20
1,2-Dibromoethane (EDB)	ND		0.0501	0.0535		mg/Kg		107	65 - 140	1	25
1,2-Dichloroethane	ND		0.0501	0.0486		mg/Kg		97	60 - 150	1	25

Surrogate	MSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	99		80 - 125

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-121756/4

Matrix: Water

Analysis Batch: 121756

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			08/02/13 11:29	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	95		80 - 120		08/02/13 11:29	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/02/13 11:29	1

TestAmerica Irvine

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-121756/4  
Matrix: Water  
Analysis Batch: 121756

Client Sample ID: Method Blank  
Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	107		80 - 120		08/02/13 11:29	1

Lab Sample ID: LCS 440-121756/6  
Matrix: Water  
Analysis Batch: 121756

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	109		80 - 120

Lab Sample ID: 440-53057-B-7 MS  
Matrix: Water  
Analysis Batch: 121756

Client Sample ID: Matrix Spike  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	108		80 - 120

Lab Sample ID: 440-53057-B-7 MSD  
Matrix: Water  
Analysis Batch: 121756

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: MB 440-122131/4  
Matrix: Solid  
Analysis Batch: 122131

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/05/13 10:47	1

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# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-122131/4  
 Matrix: Solid  
 Analysis Batch: 122131

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	105		80 - 125		08/05/13 10:47	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/05/13 10:47	1
Toluene-d8 (Surr)	108		80 - 120		08/05/13 10:47	1

Lab Sample ID: LCS 440-122131/6  
 Matrix: Solid  
 Analysis Batch: 122131

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	1.00	1.05		mg/Kg		105	60 - 135

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	102		80 - 125
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	111		80 - 120

Lab Sample ID: 440-52728-2 MS  
 Matrix: Solid  
 Analysis Batch: 122131

Client Sample ID: B-9-10'  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.43	2.98		mg/Kg		87	55 - 140

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: 440-52728-A-2 MSD  
 Matrix: Solid  
 Analysis Batch: 122131

Client Sample ID: 440-52728-A-2 MSD  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.42	3.02		mg/Kg		88	55 - 140	2	25

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	107		80 - 120

TestAmerica Irvine

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-122604/4

Matrix: Solid

Analysis Batch: 122604

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/06/13 19:24	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	87		80 - 125		08/06/13 19:24	1
4-Bromofluorobenzene (Surr)	97		80 - 120		08/06/13 19:24	1
Toluene-d8 (Surr)	105		80 - 120		08/06/13 19:24	1

Lab Sample ID: LCS 440-122604/6

Matrix: Solid

Analysis Batch: 122604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	1.00	1.02		mg/Kg		102	60 - 135

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 440-52728-1 MS

Matrix: Solid

Analysis Batch: 122604

Client Sample ID: B-9-5'

Prep Type: Total/NA

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.46	2.88		mg/Kg		83	55 - 140

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: 440-52728-1 MSD

Matrix: Solid

Analysis Batch: 122604

Client Sample ID: B-9-5'

Prep Type: Total/NA

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.46	2.72		mg/Kg		79	55 - 140	6	25

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	98		80 - 120
Toluene-d8 (Surr)	105		80 - 120

TestAmerica Irvine

## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

### GC/MS VOA

#### Analysis Batch: 121755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-4	B-9-19.5'W	Total/NA	Water	8260B	
440-53057-B-7 MS	Matrix Spike	Total/NA	Water	8260B	
440-53057-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-121755/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-121755/4	Method Blank	Total/NA	Water	8260B	

#### Analysis Batch: 121756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-4	B-9-19.5'W	Total/NA	Water	8260B/CA_LUFT MS	
440-53057-B-7 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-53057-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-121756/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-121756/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

#### Analysis Batch: 122130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-2	B-9-10'	Total/NA	Solid	8260B	
440-52728-2 MS	B-9-10'	Total/NA	Solid	8260B	
440-52728-3	B-9-19.5'	Total/NA	Solid	8260B	
440-52728-A-2 MSD	B-9-10'	Total/NA	Solid	8260B	
LCS 440-122130/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-122130/4	Method Blank	Total/NA	Solid	8260B	

#### Analysis Batch: 122131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-2	B-9-10'	Total/NA	Solid	8260B/CA_LUFT MS	
440-52728-2 MS	B-9-10'	Total/NA	Solid	8260B/CA_LUFT MS	
440-52728-3	B-9-19.5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-52728-A-2 MSD	440-52728-A-2 MSD	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-122131/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-122131/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

#### Analysis Batch: 122603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-1	B-9-5'	Total/NA	Solid	8260B	
440-52728-1 MS	B-9-5'	Total/NA	Solid	8260B	
440-52728-1 MSD	B-9-5'	Total/NA	Solid	8260B	
LCS 440-122603/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-122603/4	Method Blank	Total/NA	Solid	8260B	

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

## GC/MS VOA (Continued)

### Analysis Batch: 122604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-1	B-9-5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-52728-1 MS	B-9-5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-52728-1 MSD	B-9-5'	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-122604/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-122604/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-1

### Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-14
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-14
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine



LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( IRVINE )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SDR&M	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: **Peter Schaefer - 240366**

INCIDENT # (ENV SERVICES): 9 8 9 9 5 1 4 3

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

DATE: 7/23/13

PAGE: 1 of 2

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** EMAIL: **pschaefer@CRAWorld.com**

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES: Copy of final report to Shell.Lab.Billing@croworld.com

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

SITE ADDRESS: Street and City: **999 San Pablo Avenue, Albany** State: **CA** GLOBAL ID# **T0600101277**

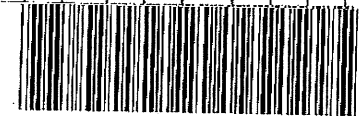
EDF DELIVERABLE TO (Name, Company, Office Location): **Brenda Carter, CRA, Emeryville** PHONE NO.: **510-420-3343** EMAIL: **shell.em.edf@croworld.com** CONSULTANT PROJECT NO: **240366-2013-03**

SAMPLER NAME(S) (Print): **Patrick O'Connell**

REQUESTED ANALYSIS

TPH - GRO, Purgeable (8280B)	TPH - DRO, Extractable (8016M)	TPH (8016M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 6 OXYs (MTBE, TBA, DIPY, TAME, ETBE) (8260B)	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8016M)	Naphthalene (8260B)	TEMPERATURE ON RECEIPT °C
														<u>2.6°</u>

LAB USE ONLY	Field Sample Identification			PRESERVATIVE					NO. OF CONT.	TPH - GRO, Purgeable (8280B)	TPH - DRO, Extractable (8016M)	TPH (8016M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 6 OXYs (MTBE, TBA, DIPY, TAME, ETBE) (8260B)	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8016M)	Naphthalene (8260B)	Container PID Readings or Laboratory Notes	
	DATE	TIME	MATRIX	HCL	HNO3	H2SO4	NONE	OTHER																	
	B-9-5'	7/23/13	0843	SOIL	X			X	1	X					X				X	X					
	B-9-10'	7/23/13	0908	SOIL	X			X	1	X					X				X	X					
	B-9-19.5'	7/23/13	1019	SOIL	X			X	1	X					X				X	X					
	B-9-19.5'W	7/23/13	1055	LIQUID	X				3	X					X				X	X					



440-52728 Chain of Custody

Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature) <u>[Signature]</u>	Date: <u>7-23-13</u>	Time: <u>1415</u>
Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature) <u>[Signature]</u>	Date: <u>7-23-13</u>	Time: <u>1815</u>
Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature) <u>[Signature]</u>	Date: <u>072513</u>	Time: <u>945</u>

05/2006 Revision

2.6° 1.3°

Page 21 of 24

8/8/2013

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( IRVINE )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:		Print Bill To Contact Name:		INCIDENT # (ENV SERVICES)		<input type="checkbox"/> CHECK IF NO INCIDENT # APPLIES	
<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL	Peter Schaefer - 240366		9	8	9
<input type="checkbox"/> MOTIVA SD&M	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES	PO #		9	5	1
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER		SAP #		4	3	
				1	3	5	0
				0	3	7	

DATE: 7/23/13  
PAGE: 2 of 2

SAMPLING COMPANY <b>Conestoga-Rovers &amp; Associates</b>		LOG CODE <b>CRAW</b>	SITE ADDRESS: Street and City <b>999 San Pablo Ave, Albany</b>		State <b>CA</b>	GLOBAL ID NO. <b>T0600101277</b>
ADDRESS <b>5900 Hollis Street, Suite A, Emeryville, CA 94608</b>		EDF DELIVERABLE TO (Name, Company, Office Location)		FACILITY NO.	E-MAIL	CONSULTANT PROJECT NO.
PROJECT CONTACT (Hardcopy or PDF Report to) <b>Peter Schaefer</b>		<b>Brenda Carter, CRA, Emeryville</b>		<b>510-420-3343</b>	<b>shelledf@craworld.com</b>	<b>240366-2013-03</b>
TELEPHONE <b>510-420-3319</b>	FAX <b>510-420-9170</b>	E-MAIL <b>pschaefer@CRAworld.com</b>		SAMPLER NAME(S) (PIN)		LAB USE ONLY
				<b>Patrick O'Connell</b>		

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

LA - RWQCB REPORT FORMAT  
 UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**  
 Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)  
 SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED  
 cc: Bbarlow@craworld.com, Deisman@craworld.com and Shell.Lab.Billing@craworld.com      Call  
 composite sample IDs and field point names; CRA-A, CRA-B, etc

REQUESTED ANALYSIS															TEMPERATURE ON RECEIPT °C				
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)	Test for disposal (See Attached)	Container PID Readings or Laboratory Notes
X	X	X											X	X				X	

LAB USE ONLY	Field Sample Identification			PRESERVATIVE					NO. OF CONT.
	DATE	TIME	MATRIX	HCL	HNO3	H2SO4	NONE	OTHER	
	CRA-A	7/23/13	SO				X		1

Relinquished by: (Signature) 	Received by: (Signature) 	Date: 7.23.13	Time: 1415
Relinquished by: (Signature) 	Received by: (Signature) 	Date: 7.23.13	Time: 1815
Relinquished by: (Signature) 	Received by: (Signature) 	Date: 07 23 13	Time: 945

6/8/2006 Revision

1-3°C

Page 22 of 24

8/8/2013

### Contingent analyses

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

Metal	Trigger level TTLC (mg/kg)	Requirement
Antimony	150	STLC required if TTLC $\geq 150$ mg/kg
Arsenic	50/100	STLC required if TTLC $\geq 50$ mg/kg; STLC and TCLP required if TTLC $\geq 100$ mg/kg
Barium	1,000/2,000	STLC required if TTLC $\geq 1,000$ mg/kg; STLC and TCLP required if TTLC $\geq 2,000$ mg/kg
Beryllium	7.5	STLC required if TTLC $\geq 7.5$ mg/kg
Cadmium	10/20	STLC required if TTLC $\geq 10$ mg/kg; STLC and TCLP required if TTLC $\geq 20$ mg/kg
Chromium	50/100	STLC required if TTLC $\geq 50$ mg/kg; STLC and TCLP required if TTLC $\geq 100$ mg/kg
Cobalt	800	STLC required if TTLC $\geq 800$ mg/kg
Copper	250	STLC required if TTLC $\geq 250$ mg/kg
Lead	<b>13/50/100</b>	Organic lead required if TTLC lead $\geq 13$ mg/kg STLC required if TTLC $\geq 50$ mg/kg; STLC and TCLP required if TTLC $\geq 100$ mg/kg
Mercury	2/4	STLC required if TTLC $\geq 2$ mg/kg; STLC and TCLP required if TTLC $\geq 4$ mg/kg
Molybdenum	350	STLC required if TTLC $\geq 350$ mg/kg
Nickel	200	STLC required if TTLC $\geq 200$ mg/kg
Selenium	10/20	STLC required if TTLC $\geq 10$ mg/kg; STLC and TCLP required if TTLC $\geq 20$ mg/kg
Silver	50/100	STLC required if TTLC $\geq 50$ mg/kg; STLC and TCLP required if TTLC $\geq 100$ mg/kg
Thallium	70	STLC required if TTLC $\geq 70$ mg/kg
Vanadium	240	STLC required if TTLC $\geq 240$ mg/kg
Zinc	2,500	STLC required if TTLC $\geq 2,500$ mg/kg

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-52728-1

**Login Number: 52728**

**List Source: TestAmerica Irvine**

**List Number: 1**

**Creator: King, Ronald**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Patrick O'Connell
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

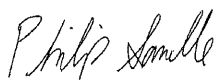
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Irvine  
17461 Derian Ave  
Suite 100  
Irvine, CA 92614-5817  
Tel: (949)261-1022

TestAmerica Job ID: 440-52728-2  
Client Project/Site: 999 San Pablo Ave., Albany, CA

For:  
Conestoga-Rovers & Associates, Inc.  
19449 Riverside Drive, Suite 230  
Sonoma, California 95476

Attn: Peter Schaefer



Authorized for release by:  
8/8/2013 2:19:01 PM

Philip Sanelle, Project Manager I  
philip.sanelle@testamericainc.com

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?

**?** Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Sample Summary . . . . .	3
Case Narrative . . . . .	4
Client Sample Results . . . . .	5
Method Summary . . . . .	6
Chronicle . . . . .	7
QC Sample Results . . . . .	8
QC Association . . . . .	14
Definitions . . . . .	16
Certification Summary . . . . .	17
Chain of Custody . . . . .	18
Receipt Checklists . . . . .	21

# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-52728-5	CRA-A	Solid	07/23/13 11:25	07/25/13 09:45

---

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

---

**Job ID: 440-52728-2**

---

**Laboratory: TestAmerica Irvine**

**Narrative**

---

**Job Narrative**  
**440-52728-2**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/25/2013 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

**GC/MS VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

No analytical or quality issues were noted.

**Metals**

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for barium, antimony, and vanadium in batch 440-122003 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.



## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

**Client Sample ID: CRA-A**

**Lab Sample ID: 440-52728-5**

Date Collected: 07/23/13 11:25

Matrix: Solid

Date Received: 07/25/13 09:45

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/05/13 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	86		80 - 125					08/05/13 18:48	1
4-Bromofluorobenzene (Surr)	96		80 - 120					08/05/13 18:48	1
Toluene-d8 (Surr)	104		80 - 120					08/05/13 18:48	1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/05/13 18:48	1
Ethylbenzene	ND		0.00099		mg/Kg			08/05/13 18:48	1
Toluene	ND		0.00099		mg/Kg			08/05/13 18:48	1
Xylenes, Total	ND		0.0020		mg/Kg			08/05/13 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120					08/05/13 18:48	1
Dibromofluoromethane (Surr)	86		80 - 125					08/05/13 18:48	1
Toluene-d8 (Surr)	104		80 - 120					08/05/13 18:48	1

**Method: 8015B - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		5.0		mg/Kg		08/06/13 14:12	08/06/13 21:07	1
ORO (C29-C40)	24		5.0		mg/Kg		08/06/13 14:12	08/06/13 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	73		40 - 140				08/06/13 14:12	08/06/13 21:07	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Arsenic	6.3		2.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Barium	130		1.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Beryllium	ND		0.50		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Cadmium	ND		0.50		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Chromium	41		1.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Cobalt	19		1.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Copper	22		2.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Lead	8.0		2.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Molybdenum	ND		2.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Nickel	46		2.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Selenium	2.1		2.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Thallium	ND		10		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Vanadium	47		1.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Zinc	52		5.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5
Silver	ND		1.0		mg/Kg		08/03/13 07:27	08/05/13 12:03	5

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.092		0.020		mg/Kg		08/06/13 13:00	08/06/13 19:56	1

TestAmerica Irvine

## Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTM S	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

## Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

**Client Sample ID: CRA-A**

**Lab Sample ID: 440-52728-5**

Date Collected: 07/23/13 11:25

Matrix: Solid

Date Received: 07/25/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	122130	08/05/13 18:48	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	122131	08/05/13 18:48	HR	TAL IRV
Total/NA	Prep	CA LUFT			30.04 g	1 mL	122547	08/06/13 14:12	SJ	TAL IRV
Total/NA	Analysis	8015B		1			122550	08/06/13 21:07	KW	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	122003	08/03/13 07:27	DT	TAL IRV
Total/NA	Analysis	6010B		5			122236	08/05/13 12:03	VS	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	122476	08/06/13 13:00	MM	TAL IRV
Total/NA	Analysis	7471A		1			122803	08/06/13 19:56	DB	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-122130/4

Matrix: Solid

Analysis Batch: 122130

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.0010		mg/Kg			08/05/13 10:47	1
Ethylbenzene	ND		0.0010		mg/Kg			08/05/13 10:47	1
Toluene	ND		0.0010		mg/Kg			08/05/13 10:47	1
Xylenes, Total	ND		0.0020		mg/Kg			08/05/13 10:47	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		80 - 120		08/05/13 10:47	1
Dibromofluoromethane (Surr)	105		80 - 125		08/05/13 10:47	1
Toluene-d8 (Surr)	108		80 - 120		08/05/13 10:47	1

Lab Sample ID: LCS 440-122130/5

Matrix: Solid

Analysis Batch: 122130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.0463		mg/Kg		93	65 - 120
Ethylbenzene	0.0500	0.0518		mg/Kg		104	70 - 125
m,p-Xylene	0.100	0.109		mg/Kg		109	70 - 125
o-Xylene	0.0500	0.0568		mg/Kg		114	70 - 125
Toluene	0.0500	0.0525		mg/Kg		105	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	108		80 - 125
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: 440-52728-A-2 MS

Matrix: Solid

Analysis Batch: 122130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Benzene	ND		0.0497	0.0489		mg/Kg		98	65 - 130
Ethylbenzene	ND		0.0497	0.0572		mg/Kg		115	70 - 135
m,p-Xylene	ND		0.0994	0.120		mg/Kg		120	70 - 130
o-Xylene	ND		0.0497	0.0604		mg/Kg		122	65 - 130
Toluene	ND		0.0497	0.0556		mg/Kg		112	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	94		80 - 125
Toluene-d8 (Surr)	106		80 - 120

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-52728-A-2 MSD  
Matrix: Solid  
Analysis Batch: 122130

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0496	0.0508		mg/Kg		102	65 - 130	4	20
Ethylbenzene	ND		0.0496	0.0588		mg/Kg		119	70 - 135	3	25
m,p-Xylene	ND		0.0992	0.122		mg/Kg		123	70 - 130	2	25
o-Xylene	ND		0.0496	0.0616		mg/Kg		124	65 - 130	2	25
Toluene	ND		0.0496	0.0570		mg/Kg		115	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	95		80 - 125
Toluene-d8 (Surr)	107		80 - 120

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-122131/4  
Matrix: Solid  
Analysis Batch: 122131

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/05/13 10:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 125		08/05/13 10:47	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/05/13 10:47	1
Toluene-d8 (Surr)	108		80 - 120		08/05/13 10:47	1

Lab Sample ID: LCS 440-122131/6  
Matrix: Solid  
Analysis Batch: 122131

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	1.00	1.05		mg/Kg		105	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 125
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	111		80 - 120

Lab Sample ID: 440-52728-A-2 MS  
Matrix: Solid  
Analysis Batch: 122131

Client Sample ID: Matrix Spike  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.43	2.98		mg/Kg		87	55 - 140

TestAmerica Irvine

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-52728-A-2 MS

Matrix: Solid

Analysis Batch: 122131

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: 440-52728-A-2 MSD

Matrix: Solid

Analysis Batch: 122131

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
				Result	Qualifier						
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.42	3.02		mg/Kg		88	55 - 140	2	25

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	107		80 - 120

### Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-122547/1-A

Matrix: Solid

Analysis Batch: 122550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 122547

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (C10-C28)	ND		5.0		mg/Kg		08/06/13 14:12	08/06/13 18:49	1
ORO (C29-C40)	ND		5.0		mg/Kg		08/06/13 14:12	08/06/13 18:49	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
n-Octacosane	71		40 - 140	08/06/13 14:12	08/06/13 18:49	1

Lab Sample ID: LCS 440-122547/2-A

Matrix: Solid

Analysis Batch: 122550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 122547

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
DRO (C10-C28)	33.3	18.2		mg/Kg		55	45 - 115

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
n-Octacosane	69		40 - 140

Lab Sample ID: 440-52556-A-1-B MS

Matrix: Solid

Analysis Batch: 122550

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 122547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
DRO (C10-C28)	ND		33.3	24.0		mg/Kg		72	40 - 120

TestAmerica Irvine

### QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

#### Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-52556-A-1-B MS  
 Matrix: Solid  
 Analysis Batch: 122550

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 122547

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
n-Octacosane	90		40 - 140

Lab Sample ID: 440-52556-A-1-C MSD  
 Matrix: Solid  
 Analysis Batch: 122550

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 122547

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
DRO (C10-C28)	ND		33.3	20.5		mg/Kg		62		40 - 120	16	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
n-Octacosane	76		40 - 140

#### Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-122003/1-A ^5  
 Matrix: Solid  
 Analysis Batch: 122236

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 122003

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND		9.9		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Arsenic	ND		2.0		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Barium	ND		0.99		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Beryllium	ND		0.50		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Cadmium	ND		0.50		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Chromium	ND		0.99		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Cobalt	ND		0.99		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Copper	ND		2.0		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Lead	ND		2.0		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Molybdenum	ND		2.0		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Nickel	ND		2.0		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Selenium	ND		2.0		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Thallium	ND		9.9		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Vanadium	ND		0.99		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Zinc	ND		5.0		mg/Kg		08/03/13 07:27	08/05/13 11:19	5
Silver	ND		0.99		mg/Kg		08/03/13 07:27	08/05/13 11:19	5

Lab Sample ID: LCS 440-122003/2-A ^5  
 Matrix: Solid  
 Analysis Batch: 122236

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 122003

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	49.3	45.4		mg/Kg		92		80 - 120
Arsenic	49.3	45.2		mg/Kg		92		80 - 120
Barium	49.3	46.9		mg/Kg		95		80 - 120
Beryllium	49.3	45.4		mg/Kg		92		80 - 120
Cadmium	49.3	45.7		mg/Kg		93		80 - 120
Chromium	49.3	46.1		mg/Kg		94		80 - 120
Cobalt	49.3	46.9		mg/Kg		95		80 - 120

TestAmerica Irvine

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-122003/2-A ^5  
 Matrix: Solid  
 Analysis Batch: 122236

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 122003

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Copper	49.3	47.2		mg/Kg		96	80 - 120	
Lead	49.3	46.1		mg/Kg		94	80 - 120	
Molybdenum	49.3	46.3		mg/Kg		94	80 - 120	
Nickel	49.3	46.5		mg/Kg		94	80 - 120	
Selenium	49.3	42.6		mg/Kg		86	80 - 120	
Thallium	49.3	45.6		mg/Kg		92	80 - 120	
Vanadium	49.3	45.9		mg/Kg		93	80 - 120	
Zinc	49.3	45.0		mg/Kg		91	80 - 120	
Silver	24.6	22.7		mg/Kg		92	80 - 120	

Lab Sample ID: 440-53319-A-7-B MS ^5  
 Matrix: Solid  
 Analysis Batch: 122236

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 122003

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Antimony	ND		49.3	19.4	F	mg/Kg		39	75 - 125	
Arsenic	6.1		49.3	48.2		mg/Kg		86	75 - 125	
Barium	160		49.3	189	F	mg/Kg		62	75 - 125	
Beryllium	ND		49.3	44.5		mg/Kg		89	75 - 125	
Cadmium	4.1		49.3	44.7		mg/Kg		83	75 - 125	
Chromium	25		49.3	73.9		mg/Kg		100	75 - 125	
Cobalt	4.0		49.3	45.7		mg/Kg		85	75 - 125	
Copper	19		49.3	61.7		mg/Kg		87	75 - 125	
Lead	3.3		49.3	44.2		mg/Kg		83	75 - 125	
Molybdenum	5.0		49.3	46.1		mg/Kg		83	75 - 125	
Nickel	46		49.3	87.7		mg/Kg		85	75 - 125	
Selenium	ND		49.3	40.3		mg/Kg		82	75 - 125	
Thallium	ND		49.3	40.1		mg/Kg		81	75 - 125	
Vanadium	71		49.3	134	F	mg/Kg		126	75 - 125	
Zinc	53		49.3	93.6		mg/Kg		83	75 - 125	
Silver	ND		24.6	20.3		mg/Kg		82	75 - 125	

Lab Sample ID: 440-53319-A-7-C MSD ^5  
 Matrix: Solid  
 Analysis Batch: 122236

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 122003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
									Limits		RPD	Limit
Antimony	ND		49.3	20.9	F	mg/Kg		42	75 - 125	8	20	
Arsenic	6.1		49.3	50.4		mg/Kg		90	75 - 125	4	20	
Barium	160		49.3	202		mg/Kg		90	75 - 125	7	20	
Beryllium	ND		49.3	46.0		mg/Kg		92	75 - 125	3	20	
Cadmium	4.1		49.3	46.9		mg/Kg		87	75 - 125	5	20	
Chromium	25		49.3	76.4		mg/Kg		105	75 - 125	3	20	
Cobalt	4.0		49.3	47.4		mg/Kg		88	75 - 125	4	20	
Copper	19		49.3	64.8		mg/Kg		93	75 - 125	5	20	
Lead	3.3		49.3	46.2		mg/Kg		87	75 - 125	5	20	
Molybdenum	5.0		49.3	51.5		mg/Kg		94	75 - 125	11	20	
Nickel	46		49.3	91.8		mg/Kg		94	75 - 125	5	20	
Selenium	ND		49.3	42.6		mg/Kg		86	75 - 125	6	20	

TestAmerica Irvine



### QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

#### Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-53319-A-7-C MSD ^5  
 Matrix: Solid  
 Analysis Batch: 122236

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 122003

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Thallium	ND		49.3	41.6		mg/Kg		85	75 - 125	4	20
Vanadium	71		49.3	140	F	mg/Kg		139	75 - 125	5	20
Zinc	53		49.3	97.0		mg/Kg		90	75 - 125	4	20
Silver	ND		24.6	21.0		mg/Kg		85	75 - 125	4	20

#### Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-122476/1-A  
 Matrix: Solid  
 Analysis Batch: 122803

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 122476

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.020		mg/Kg		08/06/13 13:00	08/06/13 19:51	1

Lab Sample ID: LCS 440-122476/2-A  
 Matrix: Solid  
 Analysis Batch: 122803

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 122476

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
							Result
Mercury	0.800	0.869		mg/Kg		109	80 - 120

Lab Sample ID: 440-52728-5 MS  
 Matrix: Solid  
 Analysis Batch: 122803

Client Sample ID: CRA-A  
 Prep Type: Total/NA  
 Prep Batch: 122476

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	0.092		0.800	0.883		mg/Kg		99	70 - 130

Lab Sample ID: 440-52728-5 MSD  
 Matrix: Solid  
 Analysis Batch: 122803

Client Sample ID: CRA-A  
 Prep Type: Total/NA  
 Prep Batch: 122476

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	0.092		0.784	0.849		mg/Kg		97	70 - 130	4	20

## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

### GC/MS VOA

#### Analysis Batch: 122130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-5	CRA-A	Total/NA	Solid	8260B	
440-52728-A-2 MS	Matrix Spike	Total/NA	Solid	8260B	
440-52728-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
LCS 440-122130/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-122130/4	Method Blank	Total/NA	Solid	8260B	

#### Analysis Batch: 122131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-5	CRA-A	Total/NA	Solid	8260B/CA_LUFT MS	
440-52728-A-2 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-52728-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-122131/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-122131/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

### GC Semi VOA

#### Prep Batch: 122547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52556-A-1-B MS	Matrix Spike	Total/NA	Solid	CA LUFT	
440-52556-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	CA LUFT	
440-52728-5	CRA-A	Total/NA	Solid	CA LUFT	
LCS 440-122547/2-A	Lab Control Sample	Total/NA	Solid	CA LUFT	
MB 440-122547/1-A	Method Blank	Total/NA	Solid	CA LUFT	

#### Analysis Batch: 122550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52556-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B	122547
440-52556-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	122547
440-52728-5	CRA-A	Total/NA	Solid	8015B	122547
LCS 440-122547/2-A	Lab Control Sample	Total/NA	Solid	8015B	122547
MB 440-122547/1-A	Method Blank	Total/NA	Solid	8015B	122547

### Metals

#### Prep Batch: 122003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-5	CRA-A	Total/NA	Solid	3050B	
440-53319-A-7-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-53319-A-7-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
LCS 440-122003/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-122003/1-A ^5	Method Blank	Total/NA	Solid	3050B	

#### Analysis Batch: 122236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-5	CRA-A	Total/NA	Solid	6010B	122003
440-53319-A-7-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	122003

TestAmerica Irvine

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

## Metals (Continued)

### Analysis Batch: 122236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53319-A-7-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	122003
LCS 440-122003/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	122003
MB 440-122003/1-A ^5	Method Blank	Total/NA	Solid	6010B	122003

### Prep Batch: 122476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-5	CRA-A	Total/NA	Solid	7471A	
440-52728-5 MS	CRA-A	Total/NA	Solid	7471A	
440-52728-5 MSD	CRA-A	Total/NA	Solid	7471A	
LCS 440-122476/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-122476/1-A	Method Blank	Total/NA	Solid	7471A	

### Analysis Batch: 122803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-52728-5	CRA-A	Total/NA	Solid	7471A	122476
440-52728-5 MS	CRA-A	Total/NA	Solid	7471A	122476
440-52728-5 MSD	CRA-A	Total/NA	Solid	7471A	122476
LCS 440-122476/2-A	Lab Control Sample	Total/NA	Solid	7471A	122476
MB 440-122476/1-A	Method Blank	Total/NA	Solid	7471A	122476

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

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### Qualifiers

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#### Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

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### Glossary

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 999 San Pablo Ave., Albany, CA

TestAmerica Job ID: 440-52728-2

## Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-14
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-14
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine

LAB (LOCATION)



Shell Oil Products Chain Of Custody Record

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( IRVINE )
- OTHER ( )

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name:

Peter Schaefer - 240366

PO #

INCIDENT # (ENV SERVICES)

9	8	9	9	5	1	4	3
---	---	---	---	---	---	---	---

DATE: 7/23/13

PAGE: 1 of 2

SAMPLING COMPANY:

Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City

999 San Pablo Avenue, Albany

State: CA

GLOBAL ID NO: T0600101277

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

EMAIL: shell.em.edf@croworld.com

CONSULTANT PROJECT NO: 240366-2013-03

PROJECT CONTACT (Harbort or POP Report to):

Peter Schaefer

SAMPLER NAME(S) (Print):

Patrick O'Connell

TELEPHONE: 510-420-3319

FAX: 510-420-9170

EMAIL: pschaefer@CRAworld.com

TURNAROUND TIME (CALENDAR DAYS):

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

RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

LA- RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

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

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TEMPERATURE ON RECEIPT C°	2.6°
Container PID Readings or Laboratory Notes	

CAR USE ONLY	SAMPLING			PRESERVATIVE					NO. OF CONT.	TPH -GRO, Purgeable (8280B)	TPH -DRO, Extractable (8015M)	TPHg (8015M)	BTEX (8280B)	BTEX + MTBE (8280B)	BTEX + MTBE + TBA (8280B)	BTEX + 6 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8280B	Full VOC list (8280B)	Single Compound: (8280B)	1,2-DCA (8280B)	EDB (8280B)	Ethanol (8280B)	Methanol (8015M)	Naphthalene (8280B)	
	Field Sample Identification	DATE	TIME	MATRIX	PRESERVATIVE																			
					HCL	HNO3	H2SO4	NONE																OTHER
	B-9-5'	7/23/13	0843	SOIL	X				X					X				X	X					
	B-9-10'	7/23/13	0908	SOIL	X				X					X				X	X					
	B-9-19.5'	7/23/13	1019	SOIL	X				X					X				X	X					
	B-9-19.5'W	7/23/13	1055	LIQUID	X				3	X				X				X	X					

TPH -GRO, Purgeable (8280B)	
TPH -DRO, Extractable (8015M)	
TPHg (8015M)	
BTEX (8280B)	
BTEX + MTBE (8280B)	
BTEX + MTBE + TBA (8280B)	
BTEX + 6 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8280B	
Full VOC list (8280B)	
Single Compound: (8280B)	
1,2-DCA (8280B)	
EDB (8280B)	
Ethanol (8280B)	
Methanol (8015M)	
Naphthalene (8280B)	



440-52728 Chain of Custody

Relinquished by: (Signature)

[Signature] 7/23/13

Received by: (Signature)

[Signature]

Date: 7-23-13

Time: 1415

Date: 7-23-13

Time: 1815

Date: 072513

Time: 945

05/206 Revision

Page 18 of 21

8/8/2013

2.6° 1.3°

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA **IRVINE**
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:		Print Bill To Contact Name:		INCIDENT # (ENV SERVICES)		<input type="checkbox"/> CHECK IF NO INCIDENT # APPLIES	
<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	Peter Schaefer - 240366		9	8	9	9
<input type="checkbox"/> MOTIVA SD&M	<input checked="" type="checkbox"/> CONSULTANT	PO #		5	1	4	3
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	SAP #		1	3	5	0
				3	7		

DATE: **7/23/13**  
PAGE: **2** of **2**

SAMPLING COMPANY <b>Conestoga-Rovers &amp; Associates</b>		LOG CODE <b>CRAW</b>	SITE ADDRESS: Street and City <b>999 San Pablo Ave, Albany</b>		State <b>CA</b>	GLOBAL ID NO. <b>T0600101277</b>
ADDRESS <b>5900 Hollis Street, Suite A, Emeryville, CA 94608</b>		EDF DELIVERABLE TO (Name, Company, Office Location)		PHONE NO. <b>510-420-3343</b>	E-MAIL <b>shelledf@craworld.com</b>	CONSULTANT PROJECT NO. <b>240366-2013-03</b>
PROJECT CONTACT (Hardcopy or PDF Report to) <b>Peter Schaefer</b>		SAMPLER NAME(S) (P/NL) <b>Patrick O'Connell</b>		<b>LAB USE ONLY</b>		
TELEPHONE <b>510-420-3319</b>	FAX <b>510-420-9170</b>	E-MAIL <b>pschaefer@CRAworld.com</b>				

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

LA - RWQCB REPORT FORMAT    UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**  
 Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

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

cc: Bbarlow@craworld.com, Deisman@craworld.com and Shell.Lab.Billing@craworld.com   Call composite sample IDs and field point names; CRA-A, CRA-B, etc

REQUESTED ANALYSIS															TEMPERATURE ON RECEIPT °C				
TPH - Putreable (8260B)	TPH - Extractable (8045M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8045M)	TPH - MO (8045M)	CAM17 Metals - Total (6040)		SVOCS (8270C)	VOCs (8260)	PCBs (8082)	Test for disposal (See Attached)
X	X	X											X	X				X	

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER	
	CRA-A	7/23/13	1125	SO				X		1

Relinquished by: (Signature) <i>Patrick O'Connell</i>	Received by: (Signature) <i>[Signature]</i>	Date: <b>7-23-13</b>	Time: <b>1415</b>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <b>7-23-13</b>	Time: <b>1815</b>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <b>07 23 13</b>	Time: <b>945</b>

6/5/06 Revision

1-3°C

Page 19 of 21

8/8/2013

### Contingent analyses

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

Metal	Trigger level TTLC (mg/kg)	Requirement
Antimony	150	STLC required if TTLC $\geq 150$ mg/kg
Arsenic	50/100	STLC required if TTLC $\geq 50$ mg/kg; STLC and TCLP required if TTLC $\geq 100$ mg/kg
Barium	1,000/2,000	STLC required if TTLC $\geq 1,000$ mg/kg; STLC and TCLP required if TTLC $\geq 2,000$ mg/kg
Beryllium	7.5	STLC required if TTLC $\geq 7.5$ mg/kg
Cadmium	10/20	STLC required if TTLC $\geq 10$ mg/kg; STLC and TCLP required if TTLC $\geq 20$ mg/kg
Chromium	50/100	STLC required if TTLC $\geq 50$ mg/kg; STLC and TCLP required if TTLC $\geq 100$ mg/kg
Cobalt	800	STLC required if TTLC $\geq 800$ mg/kg
Copper	250	STLC required if TTLC $\geq 250$ mg/kg
Lead	<b>13/50/100</b>	Organic lead required if TTLC lead $\geq 13$ mg/kg STLC required if TTLC $\geq 50$ mg/kg; STLC and TCLP required if TTLC $\geq 100$ mg/kg
Mercury	2/4	STLC required if TTLC $\geq 2$ mg/kg; STLC and TCLP required if TTLC $\geq 4$ mg/kg
Molybdenum	350	STLC required if TTLC $\geq 350$ mg/kg
Nickel	200	STLC required if TTLC $\geq 200$ mg/kg
Selenium	10/20	STLC required if TTLC $\geq 10$ mg/kg; STLC and TCLP required if TTLC $\geq 20$ mg/kg
Silver	50/100	STLC required if TTLC $\geq 50$ mg/kg; STLC and TCLP required if TTLC $\geq 100$ mg/kg
Thallium	70	STLC required if TTLC $\geq 70$ mg/kg
Vanadium	240	STLC required if TTLC $\geq 240$ mg/kg
Zinc	2,500	STLC required if TTLC $\geq 2,500$ mg/kg



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-52728-2

Login Number: 52728

List Source: TestAmerica Irvine

List Number: 1

Creator: King, Ronald

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Pactrick O'Connell
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ( $1/4"$ ).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	