



**CONESTOGA-ROVERS  
& ASSOCIATES**

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## TRANSMITTAL

DATE: November 14, 2012 REFERENCE NO.: 240483  
PROJECT NAME: 5755 Broadway, Oakland

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

**RECEIVED**  
2:47 pm, Nov 15, 2012  
Alameda County  
Environmental Health

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 Originals  Other  
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Sent via:  Mail  Same Day Courier  
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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Third Quarter 2012

As Requested  For Review and Comment  
 For Your Use  \_\_\_\_\_  
 \_\_\_\_\_

**COMMENTS:**

If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)  
Clint Mercer, SC Fuels (lessee), 1800 West Katella Avenue, Suite 400, Orange, CA 92867  
Orkin, Inc. (property owner), PO Box 2128, Santa Fe Springs, CA 90670

Completed by: Peter Schaefer Signed: *Peter Schaefer*

Filing: **Correspondence File**



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

**Denis L. Brown**  
**Shell Oil Products US**

HSE – Environmental Services  
20945 S. Wilmington Ave.  
Carson, CA 90810-1039  
Tel (707) 865 0251  
Fax (707) 865 2542

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

Re: Shell-branded Service Station  
5755 Broadway  
Oakland, California  
SAP Code 135699  
Incident No. 98995756  
ACEH Case No. RO0000026

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

A handwritten signature in black ink that reads "Denis L. Brown". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Denis L. Brown  
Senior Program Manager



## **GROUNDWATER MONITORING REPORT - THIRD QUARTER 2012**

**SHELL-BRANDED SERVICE STATION  
5755 BROADWAY  
OAKLAND, CALIFORNIA**

**SAP CODE            135699  
INCIDENT NO.      98995756  
AGENCY NO.        RO000026**

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

**NOVEMBER 14, 2012  
REF. NO. 240483 (12)**

This report is printed on recycled paper.

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## TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION .....	1
1.1 SITE INFORMATION .....	1
2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION .....	1
2.1 CURRENT QUARTER'S ACTIVITIES.....	1
2.2 CURRENT QUARTER'S FINDINGS .....	2
2.3 PROPOSED ACTIVITIES .....	2

LIST OF FIGURES  
(Following Text)

- FIGURE 1 VICINITY MAP
- FIGURE 2 GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP

LIST OF TABLES  
(Following Text)

- TABLE 1 GROUNDWATER DATA

LIST OF APPENDICES

- APPENDIX A BLAINE TECH SERVICES, INC. - FIELD NOTES
- APPENDIX B TESTAMERICA LABORATORIES, INC. - ANALYTICAL REPORT

## 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

### 1.1 SITE INFORMATION

Site Address	5755 Broadway, Oakland
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000026
Shell SAP Code	135699
Shell Incident No.	98995756

Date of most recent agency correspondence was November 3, 2010.

## 2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

### 2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1), a groundwater contour and chemical concentration map (Figure 2), and a groundwater data table (Table 1). Blaine's field notes are presented in Appendix A, and the laboratory report is presented in Appendix B.

## 2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Southerly to southeasterly
Hydraulic Gradient	Averages 0.05
Depth to Water	3.49 to 5.48 feet below top of well casing

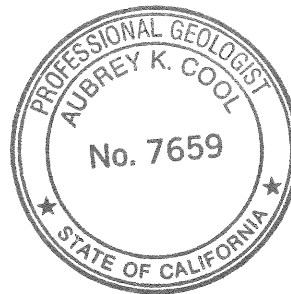
## 2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells according to the established monitoring program for this site. This site is monitored semiannually during the first and third quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events.

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

*Peter Schaefer*  
Peter Schaefer, CHG, CEG

*Aubrey K Cool*  
Aubrey K. Cool, PG

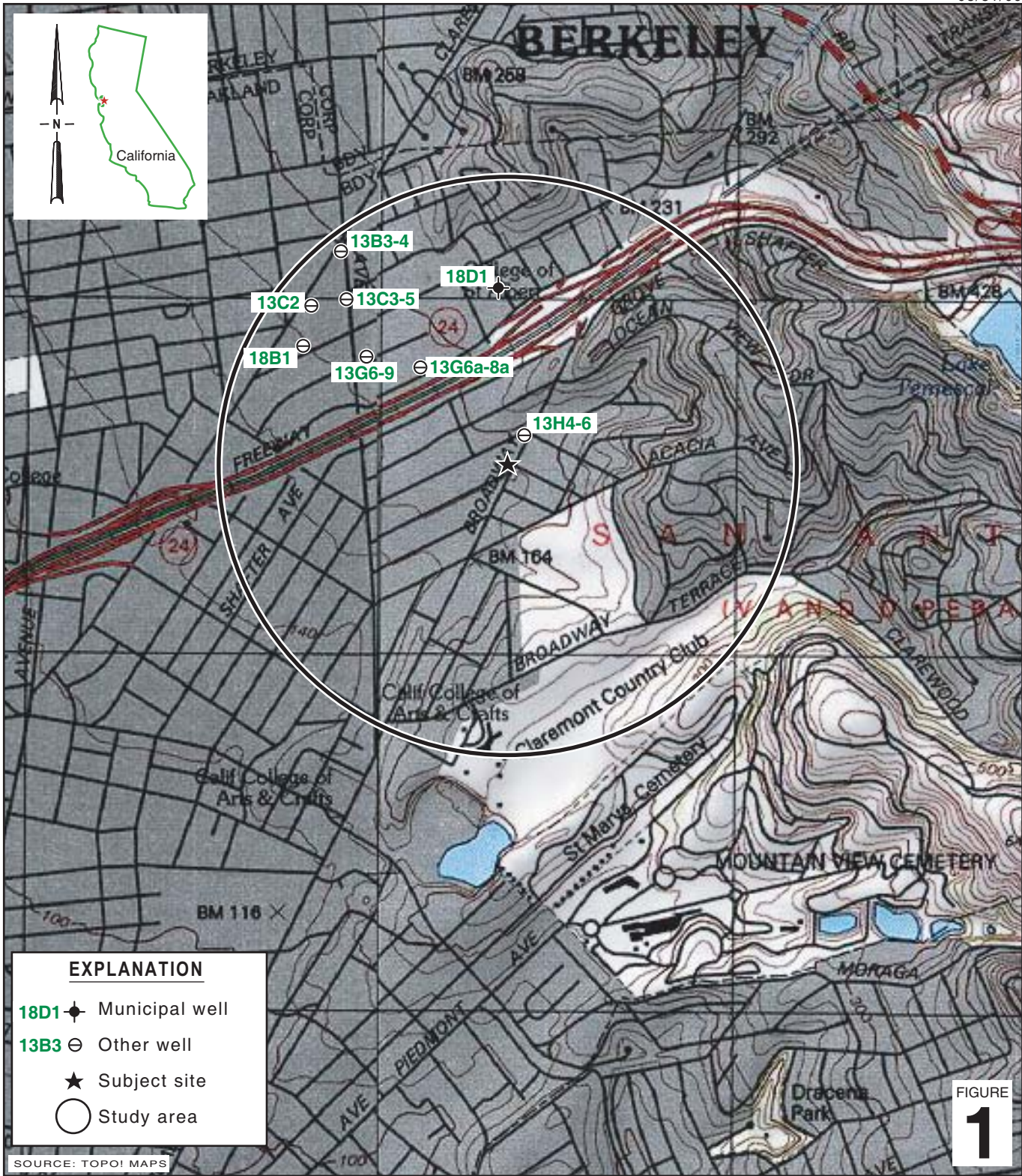




## FIGURES



I:\6-charts\2404--\240483-Oakland 5755 Broadway\240483-FIGURES\240483 VICINITY.AI



EXPLANATION	
18D1	◆ Municipal well
13B3	⊖ Other well
★	★ Subject site
○	○ Study area

SOURCE: TOPOI MAPS

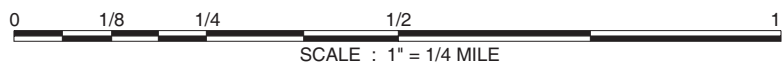


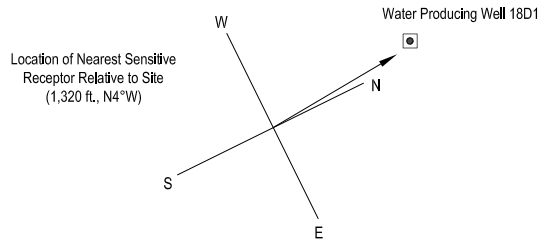
FIGURE 1

**Shell-branded Service Station**  
 5755 Broadway  
 Oakland, California



**CONESTOGA-ROVERS  
 & ASSOCIATES**

**Vicinity Map**



### EXPLANATION

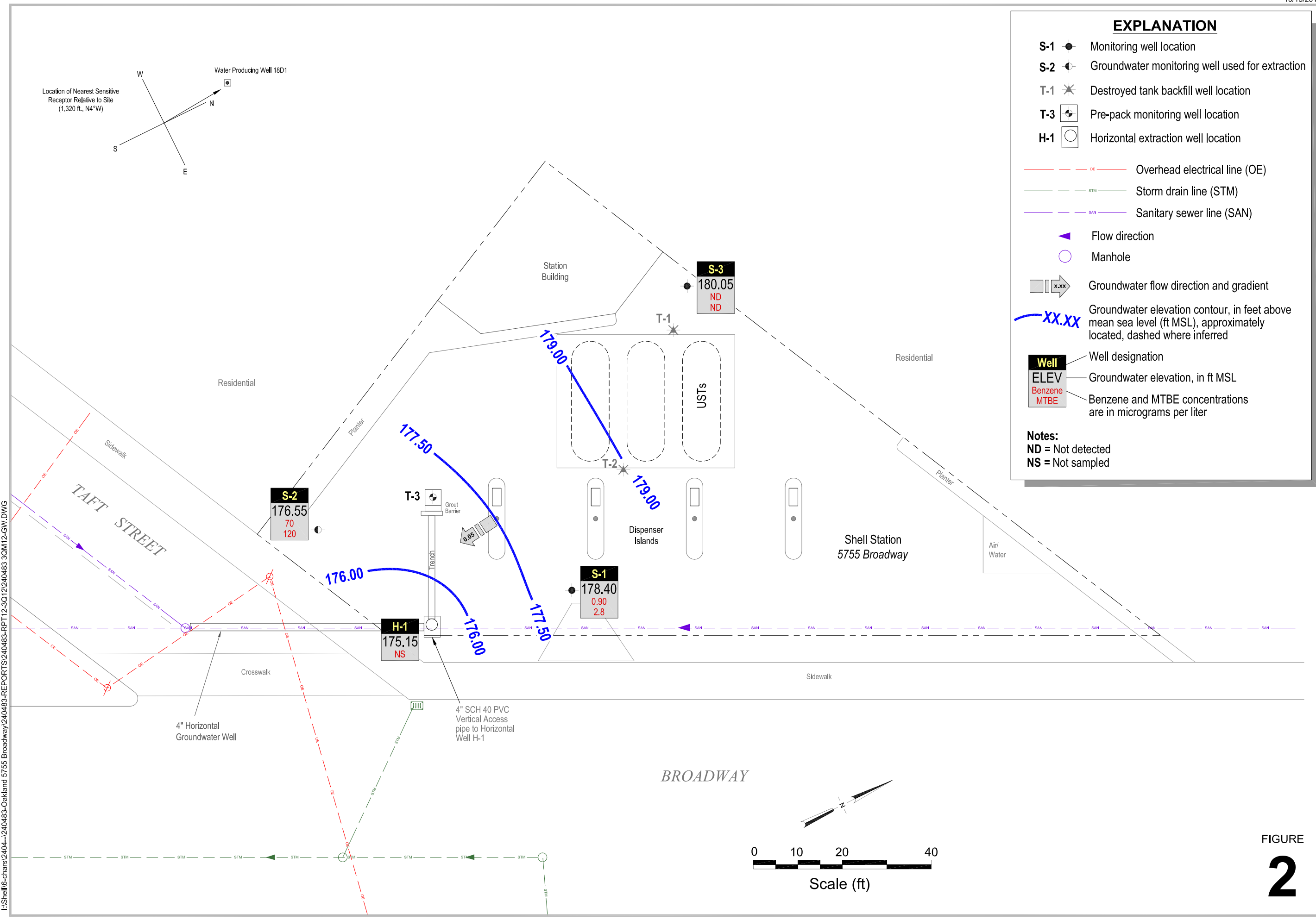
- S-1** ● Monitoring well location
- S-2** ● Groundwater monitoring well used for extraction
- T-1** ✱ Destroyed tank backfill well location
- T-3** ⊕ Pre-pack monitoring well location
- H-1** ○ Horizontal extraction well location

- OE — Overhead electrical line (OE)
- STM — Storm drain line (STM)
- SAN — Sanitary sewer line (SAN)

- ▶ Flow direction
- Manhole
- ▢ x.xx → Groundwater flow direction and gradient
- xx.xx — Groundwater elevation contour, in feet above mean sea level (ft MSL), approximately located, dashed where inferred

Well	Well designation
ELEV	Groundwater elevation, in ft MSL
Benzene	Benzene and MTBE concentrations are in micrograms per liter
MTBE	

**Notes:**  
 ND = Not detected  
 NS = Not sampled



I:\Shell\6-chars\2404--240483-Oakland 5755 Broadway\240483-REPORTS\240483-RPT12-301\240483-30M12-GW.DWG

Groundwater Contour and Chemical Concentration Map

July 19, 2012



CONESTOGA-ROVERS & ASSOCIATES

Shell-branded Service Station

5755 Broadway  
Oakland, California

FIGURE  
**2**

TABLE

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
S-1	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	100.00	3.88	96.12	---
S-1	06/03/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	100.00	3.51	96.49	---
S-1	08/30/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	100.00	4.24	95.76	---
S-1	11/22/1991	<30	2.3	<0.46	0.3	<0.65	---	---	---	---	---	---	100.00	4.29	95.71	---
S-1	03/13/1992	<30	<0.52	<0.3	<0.3	<0.3	---	---	---	---	---	---	100.00	2.87	97.13	---
S-1	05/28/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.79	96.21	---
S-1	08/19/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	4.43	95.57	---
S-1	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	4.34	95.66	---
S-1	02/10/1993	51	1.4	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	4.20	95.80	---
S-1 (D)	02/10/1993	<50	1.2	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---
S-1	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.39	96.61	---
S-1	08/03/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.69	96.31	---
S-1	11/02/1993	70a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	4.26	95.74	---
S-1	12/16/1993	---	---	---	---	---	---	---	---	---	---	---	100.00	2.73	97.27	---
S-1	02/01/1994	60a	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.38	96.62	---
S-1	05/04/1994	<50	1.1	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.00	97.00	---
S-1	08/18/1994	<50	0.60	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.70	96.30	---
S-1 (D)	08/18/1994	60a	0.50	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---
S-1	11/09/1994	<50	4.0	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	2.52	97.48	---
S-1	02/22/1995	50	0.80	0.70	<0.5	1.3	---	---	---	---	---	---	100.00	4.08	95.92	---
S-1	05/02/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	2.58	97.42	---
S-1	08/30/1995	<50	1.7	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.48	96.52	---
S-1	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.99	96.01	---
S-1	02/02/1996	<50	11	<0.5	0.9	<0.5	---	---	---	---	---	---	100.00	2.00	98.00	---
S-1	03/09/1996	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	3.38	96.62	---
S-1	08/22/1996	<50	1.5	<0.5	<0.5	<0.5	130	---	---	---	---	---	100.00	3.43	96.57	---
S-1	11/07/1996	<50	<0.5	<0.5	<0.5	<0.5	57	---	---	---	---	---	100.00	3.70	96.30	4.33
S-1	02/20/1997	<50	0.64	<0.50	<0.50	1.6	6.5	---	---	---	---	---	100.00	3.60	96.40	2
S-1	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	46	---	---	---	---	---	100.00	3.47	96.53	7
S-1 (D)	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	47	---	---	---	---	---	---	---	---	---



TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
S-1	08/21/1997	<50	<0.50	<0.50	<0.50	0.84	26	---	---	---	---	---	100.00	3.01	96.99	3.1
S-1	11/03/1997	<50	<0.50	1.1	<0.50	1.3	190	---	---	---	---	---	100.00	3.66	96.34	2
S-1	01/20/1998	110	7.9	2.8	4.4	13	53	---	---	---	---	---	100.00	1.84	98.16	4.6
S-1 (D)	01/20/1998	130	9.2	6.9	5.2	15	93	---	---	---	---	---	---	---	---	---
S-1	02/16/1999	<50	<0.50	<0.50	<0.50	<0.50	8.6	---	---	---	---	---	100.00	2.43	97.57	2.2
S-1	09/07/1999	---	---	---	---	---	---	---	---	---	---	---	100.00	2.84	97.16	---
S-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	202	---	---	---	---	---	100.00	3.10	96.90	2.1
S-1	04/26/2000	---	---	---	---	---	---	---	---	---	---	---	100.00	2.91	97.09	---
S-1	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	811	---	---	---	---	---	100.00	3.21	96.79	1.8
S-1	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	100.00	3.18	96.82	---
S-1	02/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	209	---	---	---	---	---	100.00	1.34	98.66	2.2
S-1	06/07/2001	---	---	---	---	---	---	---	---	---	---	---	100.00	1.27	98.73	---
S-1	08/31/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	100.00	3.16	96.84	4.0
S-1	12/05/2001	---	---	---	---	---	---	2.6	---	---	---	---	100.00	1.90	98.10	---
S-1	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	100.00	2.67	97.33	---
S-1	06/04/2002	---	---	---	---	---	---	---	---	---	---	---	100.00	1.87	98.13	---
S-1	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	100.00	2.01	97.99	---
S-1	11/07/2002	---	---	---	---	---	---	---	---	---	---	---	181.89	3.01	178.88	---
S-1	11/14/2002	---	---	---	---	---	---	---	---	---	---	---	181.89	3.40	178.49	---
S-1	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	---	27	---	---	---	---	181.89	2.12	179.77	---
S-1	06/03/2003	---	---	---	---	---	---	---	---	---	---	---	181.89	1.83	180.06	---
S-1	08/27/2003	<50	0.50	1.5	<0.50	2.0	---	130	---	---	---	---	181.89	3.32	178.57	---
S-1	11/25/2003	---	---	---	---	---	---	---	---	---	---	---	181.89	3.28	178.61	---
S-1	02/05/2004	270	2.4	6.4	5.8	19	---	8.3	---	---	---	---	181.89	2.09	179.80	---
S-1	04/21/2004	---	---	---	---	---	---	---	---	---	---	---	181.89	2.61	179.28	---
S-1	08/12/2004	<500	<5.0	<5.0	<5.0	<10	---	1,100	<50	<20	<20	<20	181.89	3.70	178.19	---
S-1	11/08/2004	---	---	---	---	---	---	---	---	---	---	---	181.89	3.04	178.85	---
S-1	05/16/2005	<50	<0.50	<0.50	<0.50	<1.0	---	4.9	---	---	---	---	181.89	3.10	178.79	---
S-1	08/16/2005	<50	<0.50	<0.50	<0.50	<1.0	---	64	52	<2.0	<2.0	<2.0	181.89	0.73	181.16	---
S-1	11/03/2005	---	---	---	---	---	---	---	---	---	---	---	181.89	3.49	178.40	---

TABLE 1

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SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
							8020 (µg/L)	8260 (µg/L)								
S-1	02/16/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	22.7	---	---	---	---	181.89	0.73	181.16	---
S-1	05/05/2006	---	---	---	---	---	---	---	---	---	---	---	181.89	0.71	181.18	---
S-1	08/21/2006	<50.0	0.630	<0.500	<0.500	1.71	---	44.6	<10.0	<0.500	<0.500	<0.500	181.89	3.34	178.55	---
S-1	11/13/2006	---	---	---	---	---	---	---	---	---	---	---	181.89	2.55	179.34	---
S-1	01/30/2007	<50	<0.50	<0.50	<0.50	<1.0	---	24	---	---	---	---	181.89	0.91	180.98	---
S-1	05/23/2007	---	---	---	---	---	---	---	---	---	---	---	181.89	2.50	179.39	---
S-1	08/09/2007	<50 f	0.35 g	<1.0	<1.0	<1.0	---	33	<10	<2.0	<2.0	<2.0	181.89	0.81	181.08	---
S-1	11/13/2007	---	---	---	---	---	---	---	---	---	---	---	181.89	0.55	181.34	---
S-1	02/13/2008	<50 f	0.56	<1.0	<1.0	<1.0	---	2.9	---	---	---	---	181.89	0.45	181.44	---
S-1	05/20/2008	---	---	---	---	---	---	---	---	---	---	---	181.89	1.00	180.89	---
S-1	08/04/2008	66	<0.50	<1.0	<1.0	<1.0	---	3.6	<10	<2.0	<2.0	<2.0	181.89	0.72	181.17	---
S-1	12/02/2008	---	---	---	---	---	---	---	---	---	---	---	181.89	0.89	181.00	---
S-1	01/23/2009	<50	<0.50	<1.0	<1.0	2.1	---	4.8	---	---	---	---	181.89	0.81	181.08	---
S-1	05/05/2009	---	---	---	---	---	---	---	---	---	---	---	181.89	0.81	181.08	---
S-1	08/07/2009	53	0.86	<1.0	<1.0	<1.0	---	34	11	<2.0	<2.0	<2.0	181.89	4.33	177.56	---
S-1	02/03/2010	140	15	48	1.6	15	---	2.4	---	---	---	---	181.89	0.62	181.27	---
S-1	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	---	6.3	<10	<2.0	<2.0	<2.0	181.89	1.00	180.89	---
S-1	02/10/2011	<50	<0.50	<0.50	<0.50	<1.0	---	1.9	---	---	---	---	181.89	0.51	181.38	---
S-1	07/22/2011	<50	<0.50	<0.50	<0.50	<1.0	---	1.0	<10	<1.0	<1.0	<1.0	181.89	0.98	180.91	---
S-1	02/07/2012	<50	<0.50	<0.50	<0.50	<1.0	---	1.3	---	---	---	---	181.89	0.80	181.09	---
S-1	07/19/2012	<50	0.90	<0.50	<0.50	<1.0	---	2.8	<10	<0.50	<0.50	<0.50	181.89	3.49	178.40	---
S-2	01/25/1991	450	140	1.8	6.2	15	---	---	---	---	---	---	98.92	4.52	94.40	---
S-2	06/03/1991	490	150	2.7	8.2	7.0	---	---	---	---	---	---	98.92	4.02	94.90	---
S-2	08/30/1991	70	0.37	<0.3	<0.3	<0.3	---	---	---	---	---	---	98.92	4.70	94.22	---
S-2	11/22/1991	1,600	110	9.3	29	150	---	---	---	---	---	---	98.92	4.72	94.20	---
S-2	03/13/1992	1,300	210	5.7	34	79	---	---	---	---	---	---	98.92	3.47	95.45	---
S-2	05/28/1992	100	28	<0.5	<0.5	<0.5	---	---	---	---	---	---	98.92	4.45	94.47	---
S-2	08/19/1992	470	42	<0.5	8.3	4.0	---	---	---	---	---	---	98.92	4.84	94.08	---
S-2	11/18/1992	490	43	39	17	29	---	---	---	---	---	---	98.92	4.73	94.19	---

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
S-2	02/10/1993	19,000	710	760	80	370	---	---	---	---	---	---	98.92	4.83	94.09	---
S-2	06/11/1993	33,000	3,100	1,600	370	1,100	---	---	---	---	---	---	98.92	3.74	95.18	---
S-2	08/03/1993	18,000	1,400	130	81	130	---	---	---	---	---	---	98.92	4.23	94.69	---
S-2 (D)	08/03/1993	19,000	1,400	140	86	150	---	---	---	---	---	---	---	---	---	---
S-2	11/02/1993	12,000 a	470	47	31	92	---	---	---	---	---	---	98.92	4.72	94.20	---
S-2 (D)	11/02/1993	13,000 a	530	47	35	96	---	---	---	---	---	---	---	---	---	---
S-2	12/16/1993	---	---	---	---	---	---	---	---	---	---	---	98.92	3.00	95.92	---
S-2	02/01/1994	31,000 a	430	46	50	130	---	---	---	---	---	---	98.92	3.48	95.44	---
S-2 (D)	02/01/1994	31,000 a	300	33	30	100	---	---	---	---	---	---	---	---	---	---
S-2	05/04/1994	3,900	1,200	31	53	71	---	---	---	---	---	---	98.92	3.26	95.66	---
S-2 (D)	05/04/1994	4,500	1,200	37	57	110	---	---	---	---	---	---	---	---	---	---
S-2	08/18/1994	24,000	600	8.3	15	27	---	---	---	---	---	---	98.92	3.98	94.94	---
S-2	11/09/1994	1,400 a	240	9.3	13	20	---	---	---	---	---	---	98.92	3.10	95.82	---
S-2 (D)	11/09/1994	1,800	260	8.5	13	21	---	---	---	---	---	---	---	---	---	---
S-2	02/22/1995	29,000	550	18	12	63	---	---	---	---	---	---	98.92	4.02	94.90	---
S-2 (D)	02/22/1995	28,000	530	17	10	60	---	---	---	---	---	---	---	---	---	---
S-2	05/02/1995	4,400	1,000	25	38	77	---	---	---	---	---	---	98.92	2.86	96.06	---
S-2 (D)	05/02/1995	4,400	1,000	26	41	83	---	---	---	---	---	---	---	---	---	---
S-2	08/30/1995	800	350	20	6.7	16	---	---	---	---	---	---	98.92	4.06	94.86	---
S-2 (D)	08/30/1995	960	220	22	12	48	---	---	---	---	---	---	---	---	---	---
S-2	11/28/1995	2,000	230	220	50	230	---	---	---	---	---	---	98.92	4.48	94.44	---
S-2 (D)	11/28/1995	2,100	240	230	51	230	---	---	---	---	---	---	---	---	---	---
S-2	02/02/1996	18,000	540	18	12	22	---	---	---	---	---	---	98.92	1.99	96.93	---
S-2 (D)	02/02/1996	11,000	600	18	13	28	---	---	---	---	---	---	---	---	---	---
S-2	03/09/1996	3,800	1,500	27	30	58	---	---	---	---	---	---	98.92	3.27	95.65	---
S-2 (D)	03/09/1996	3,500	1,300	24	21	53	---	---	---	---	---	---	---	---	---	---
S-2	08/22/1996	<20,000	490	<200	<200	<200	43,000	---	---	---	---	---	98.92	3.85	95.07	---
S-2 (D)	08/22/1996	<20,000	570	<200	<200	<200	59,000	51,000	---	---	---	---	---	---	---	---
S-2	11/07/1996	<5,000	290	<50	<50	<50	32,000	---	---	---	---	---	98.92	4.00	94.92	3.51
S-2 (D)	11/07/1996	<5,000	290	<50	<50	<50	32,000	---	---	---	---	---	---	---	---	---



TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water (ft TOC)	Elevation (ft MSL)	Reading (mg/L)
S-2	02/20/1997	<10,000	520	<100	<100	<100	28,000	---	---	---	---	---	98.92	3.20	95.72	1
S-2 (D)	02/20/1997	<10,000	520	<100	<100	<100	35,000	---	---	---	---	---	---	---	---	---
S-2	05/30/1997	150	15	11	3.5	15	11	---	---	---	---	---	98.92	3.87	95.05	6
S-2	08/21/1997	1,600	220	<10	20	<10	18,000	---	---	---	---	---	98.92	3.29	95.63	3.3
S-2 (D)	08/21/1997	1,500	180	<10	16	<10	21,000	---	---	---	---	---	---	---	---	---
S-2	11/03/1997	1,000	94	<10	<10	<10	<50	---	---	---	---	---	98.92	4.02	94.90	1.8
S-2	01/20/1998	590	110	8.3	18	23	7,800	---	---	---	---	---	98.92	1.54	97.38	3.2
S-2	07/23/1998	2,600	840	<10	44	22	15,000	---	---	---	---	---	98.92	2.89	96.03	---
S-2	02/16/1999	680	140	6.1	10	18	19,000	---	---	---	---	---	98.92	1.86	97.06	2.0
S-2	09/07/1999	<2,000	248	<20.0	<20.0	<20.0	22,800	---	---	---	---	---	98.92	3.66	95.26	1.8
S-2	02/02/2000	103	0.825	<0.500	<0.500	<0.500	11,700	10,500	---	---	---	---	98.92	4.02	94.90	2.0
S-2	04/26/2000	4,040	799	<20.0	40.9	255	19,000	17,100 b	---	---	---	---	98.92	2.63	96.29	2.3
S-2	07/25/2000	1,120	195	5.94	5.62	11.3	26,600	21,100	---	---	---	---	98.92	3.42	95.50	0.6
S-2	11/15/2000	613 b	35.6 b	<5.00 b	<5.00 b	7.36 b	18,100 b	17,800 b	---	---	---	---	98.92	3.31	95.61	1.8
S-2	02/12/2001	9,010	1,430	<20.0	219	848	28,300	17,000	---	---	---	---	98.92	1.47	97.45	2.0
S-2	06/07/2001	31,000	1,000	<25	630	3,200	---	17,000	---	---	---	---	98.92	3.43	95.49	10.4
S-2	08/31/2001	50,000	950	<20	1,500	6,000	---	17,000	---	---	---	---	98.92	4.72	94.20	0.9
S-2	12/05/2001	49,000	590	7.2	1,400	4,900	---	11,000	---	---	---	---	98.92	1.53	97.39	---
S-2	01/31/2002	37,000	860	<25	1,100	4,000	---	14,000	---	---	---	---	98.92	2.13	96.79	---
S-2	06/04/2002	150,000	800	<20	1,200	4,000	---	9,200	---	---	---	---	98.92	2.24	96.68	---
S-2	07/25/2002	37,000	350	<20	660	2,400	---	10,000	---	---	---	---	98.92	2.03	96.89	---
S-2	11/14/2002	25,000	510	<25	590	2,000	---	10,000	---	---	---	---	180.79	3.17	177.62	---
S-2	01/02/2003	---	710	<25	560	2,074	---	---	---	---	---	---	180.79	2.15	178.64	---
S-2	01/30/2003	21,000	670	<20	360	1,200	---	9,300	---	---	---	---	180.79	2.09	178.70	---
S-2	06/03/2003	42,000	800	<50	660	1,500	---	9,600	---	---	---	---	180.79	3.08	177.71	---
S-2	08/27/2003	31,000	630	<100	510	1,200	---	15,000	---	---	---	---	180.79	2.55	178.24	---
S-2	11/25/2003 c	8,400 a	<50	<50	<50	<100	---	4,500	---	---	---	---	180.79	---	---	---
S-2	02/05/2004	Well inaccessible	---	---	---	---	---	---	---	---	---	---	180.79	---	---	---
S-2	02/10/2004 c	<2,500	130	<25	<25	<50	---	3,800	---	---	---	---	180.79	---	---	---
S-2	04/21/2004	4,700	100	<25	<25	<50	---	2,900	---	---	---	---	180.79	7.38	173.41	---

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
							8020 (µg/L)	8260 (µg/L)								
S-2	08/12/2004	2,600	63	<13	<13	<25	---	1,400	1,200	<50	<50	<50	180.79	d	---	---
S-2	11/08/2004	3,600	<25	<25	<25	<50	---	1,300	---	---	---	---	180.79	d	---	---
S-2	05/16/2005	73 e	<0.50	<0.50	<0.50	<1.0	---	3.3	---	---	---	---	180.79	3.33	177.46	---
S-2	08/16/2005	10,000	370	<13	60	63	---	1,300	2,900	<50	<50	<50	180.79	4.03	176.76	---
S-2	11/03/2005	1,010	31.4	<0.500	2.81	31.4	---	349	880	---	---	---	180.79	---	---	---
S-2	02/16/2006	5,350	79.0	<0.500	2.90	59.5	---	687	690	---	---	---	180.79	5.86	174.93	---
S-2	05/05/2006	5,240	148	<0.500	17.1	48.8	---	815	478	---	---	---	180.79	---	---	---
S-2	08/21/2006	4,640	162	0.910	25.8	27.2	---	519	711	<0.500	<0.500	0.780	180.79	4.72	176.07	---
S-2	11/13/2006	2,100	200	<5.0	58	21	---	820	1,300	---	---	---	180.79	3.44	177.35	---
S-2	01/30/2007	3,300	250	<5.0	59	17	---	1,100	1,600	---	---	---	180.79	2.32	178.47	---
S-2	05/23/2007	4,600 f	410	2.3 g	92	24.8 g	---	890	620	---	---	---	180.79	2.61	178.18	---
S-2	08/09/2007	4,100 f	320	<10	30	11	---	650	1,400	<20	<20	<20	180.79	3.72	177.07	---
S-2	11/13/2007	4,900 f	230	<10	33	12	---	540	590	<20	<20	<20	180.79	2.31	178.48	---
S-2	02/13/2008	4,800 f	560	<10	67	37	---	1,500	610	---	---	---	180.79	1.83	178.96	---
S-2	05/20/2008	5,400	340	<10	11	17	---	460	310	---	---	---	180.79	2.90	177.89	---
S-2	08/04/2008	4,800	240	<10	<10	<10	---	390	640	<20	<20	<20	180.79	3.95	176.84	---
S-2	12/02/2008	3,700	120	<5.0	<5.0	<5.0	---	280	810	---	---	---	180.79	4.13	176.66	---
S-2	01/23/2009	3,500	210	<10	26	<10	---	640	650	---	---	---	180.79	2.85	177.94	---
S-2	05/05/2009	3,200	190	<5.0	7.6	5.5	---	340	350	---	---	---	180.79	2.48	178.31	---
S-2	08/07/2009	3,100	76	<1.0	<1.0	2.3	---	81	310	<2.0	<2.0	<2.0	180.79	4.78	176.01	---
S-2	02/03/2010	4,000	180	<1.0	34	9.1	---	420	190	---	---	---	180.79	2.25	178.54	---
S-2	08/31/2010	3,400	120	<1.0	<1.0	1.8	---	83	380	<2.0	<2.0	<2.0	180.79	4.32	176.47	---
S-2	02/10/2011	3,600	220	<2.0	13	<4.0	---	330	450	---	---	---	180.79	2.51	178.28	---
S-2	07/22/2011	4,000	160	<1.2	5.0	6.4	---	200	270	<2.5	<2.5	<2.5	180.79	2.78	178.01	---
S-2	02/07/2012	3,800	130	<2.5	6.3	<5.0	---	200	170	---	---	---	180.79	2.53	178.26	---
<b>S-2</b>	<b>07/19/2012</b>	<b>2,800</b>	<b>70</b>	<b>&lt;1.3</b>	<b>&lt;1.3</b>	<b>&lt;2.5</b>	<b>---</b>	<b>120</b>	<b>170</b>	<b>&lt;1.3</b>	<b>&lt;1.3</b>	<b>&lt;1.3</b>	<b>180.79</b>	<b>4.24</b>	<b>176.55</b>	<b>---</b>
S-3	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	101.67	3.84	97.83	---
S-3	06/03/1991	<30	<0.3	0.3	0.3	0.3	---	---	---	---	---	---	101.67	3.25	98.42	---
S-3	08/03/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	101.67	4.73	96.94	---

TABLE 1

GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
							8020 (µg/L)	8260 (µg/L)								
S-3	11/22/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	101.67	4.81	96.86	---
S-3	03/13/1992	<30	<0.3	0.3	0.3	0.3	---	---	---	---	---	---	101.67	2.29	99.38	---
S-3	05/28/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.62	98.05	---
S-3	08/19/1992	<50	<0.5	<0.5	<0.5	0.5	---	---	---	---	---	---	101.67	4.66	97.01	---
S-3	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	4.51	97.16	---
S-3	02/10/1993	30	1.9	3.2	2.4	5.6	---	---	---	---	---	---	101.67	4.36	97.31	---
S-3	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.91	98.76	---
S-3 (D)	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---
S-3	08/03/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.70	97.97	---
S-3	11/02/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	101.67	---	---	---
S-3	12/16/1993	---	---	---	---	---	---	---	---	---	---	---	101.67	2.12	99.55	---
S-3	02/01/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.90	98.77	---
S-3	05/04/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.54	99.13	---
S-3	08/18/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.51	98.16	---
S-3	11/09/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.44	99.23	---
S-3	02/22/1995	80	<0.5	0.50	<0.5	0.5	---	---	---	---	---	---	101.67	4.12	97.55	---
S-3	05/02/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.83	98.84	---
S-3	08/30/1995	<50	0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.16	98.51	---
S-3	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.87	97.80	---
S-3	02/02/1996	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.24	99.43	---
S-3	03/09/1996	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.05	98.62	---
S-3	08/22/1996	<50	0.8	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	101.67	2.85	98.82	4.6
S-3	11/07/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	101.67	3.35	98.32	4.6
S-3	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	3.00	98.67	1
S-3	05/30/1997	140	14	10	3.3	14	8.6	---	---	---	---	---	101.67	3.00	98.67	8
S-3	08/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	2.94	98.73	3.3
S-3	11/03/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	3.36	98.31	2.4
S-3 (D)	11/03/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	---	---	---
S-3	01/20/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	101.67	---	---	---
S-3	07/23/1998	---	---	---	---	---	---	---	---	---	---	---	101.67	2.69	98.98	---

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
S-3	02/16/1999	<50	<0.50	0.92	0.59	3.9	3.7	---	---	---	---	---	101.67	2.20	99.47	2.8
S-3	09/07/1999	---	---	---	---	---	---	---	---	---	---	---	101.67	2.81	98.86	---
S-3	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	101.67	3.97	97.70	2.7
S-3	04/26/2000	---	---	---	---	---	---	---	---	---	---	---	101.67	2.96	98.71	---
S-3	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	101.67	3.00	98.67	0.8
S-3	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	101.67	2.86	98.81	---
S-3	02/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	101.67	2.47	99.20	2.3
S-3	06/07/2001	---	---	---	---	---	---	---	---	---	---	---	101.67	2.78	98.89	---
S-3	08/31/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	101.67	3.94	97.73	0.5
S-3	12/05/2001	---	---	---	---	---	---	---	---	---	---	---	101.67	2.05	99.62	---
S-3	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	101.67	2.29	99.38	---
S-3	06/04/2002	---	---	---	---	---	---	---	---	---	---	---	101.67	2.56	99.11	---
S-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	101.67	2.70	98.97	---
S-3	11/14/2002	---	---	---	---	---	---	---	---	---	---	---	183.54	3.43	180.11	---
S-3	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	183.54	2.16	181.38	---
S-3	01/30/2003	---	---	---	---	---	---	---	---	---	---	---	183.54	2.65	180.89	---
S-3	08/27/2003	<50	<0.50	<0.50	<0.50	<1.0	---	0.55	---	---	---	---	183.54	2.75	180.79	---
S-3	11/25/2003	---	---	---	---	---	---	---	---	---	---	---	183.54	2.85	180.69	---
S-3	02/05/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	183.54	2.04	181.50	---
S-3	04/21/2004	---	---	---	---	---	---	---	---	---	---	---	183.54	2.50	181.04	---
S-3	08/12/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	<2.0	<2.0	<2.0	183.54	3.91	179.63	---
S-3	11/08/2004	---	---	---	---	---	---	---	---	---	---	---	183.54	2.84	180.70	---
S-3	05/16/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	183.54	3.05	180.49	---
S-3	08/16/2005	<100	<1.0	<1.0	<1.0	<2.0	---	<1.0	<10	<4.0	<4.0	<4.0	183.54	3.42	180.12	---
S-3	11/03/2005	---	---	---	---	---	---	---	---	---	---	---	183.54	4.09	179.45	---
S-3	02/16/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	---	---	---	---	183.54	2.25	181.29	---
S-3	05/05/2006	---	---	---	---	---	---	---	---	---	---	---	183.54	2.27	181.27	---
S-3	08/21/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	36.4	<0.500	<0.500	0.570	183.54	3.17	180.37	---
S-3	11/13/2006	---	---	---	---	---	---	---	---	---	---	---	183.54	3.42	180.12	---
S-3	01/30/2007	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	183.54	2.36	181.18	---

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
							8020 (µg/L)	8260 (µg/L)								
S-3	05/23/2007	---	---	---	---	---	---	---	---	---	---	---	183.54	2.65	180.89	---
S-3	08/09/2007	<50 f	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	183.54	2.93	180.61	---
S-3	11/13/2007	---	---	---	---	---	---	---	---	---	---	---	183.54	2.04	181.50	---
S-3	02/13/2008	<50 f	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	183.54	2.03	181.51	---
S-3	05/20/2008	---	---	---	---	---	---	---	---	---	---	---	183.54	2.75	180.79	---
S-3	08/04/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	183.54	3.52	180.02	---
S-3	12/02/2008	---	---	---	---	---	---	---	---	---	---	---	183.54	3.68	179.86	---
S-3	01/23/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	183.54	2.52	181.02	---
S-3	05/05/2009	---	---	---	---	---	---	---	---	---	---	---	183.54	2.02	181.52	---
S-3	08/07/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	183.54	4.61	178.93	---
S-3	02/03/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	183.54	1.89	181.65	---
S-3	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	183.54	3.44	180.10	---
S-3	02/10/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	---	---	---	---	183.54	1.91	181.63	---
S-3	07/22/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	<1.0	<1.0	<1.0	183.54	2.42	181.12	---
S-3	02/07/2012	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	---	---	---	---	183.54	1.97	181.57	---
S-3	07/19/2012	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	183.54	3.49	180.05	---
H-1	12/05/2001	150	<0.50	8.3	1.6	16	---	52	---	---	---	---	---	1.43	---	---
H-1	01/31/2002	3,200	12	<0.50	5.7	3.7	---	650	---	---	---	---	---	2.34	---	---
H-1	06/04/2002	280,000	<10	150	62	9,500	---	<100	---	---	---	---	---	2.56	---	---
H-1	07/25/2002	8,200	2.2	46	5.3	99	---	<10	---	---	---	---	---	2.83	---	---
H-1	11/14/2002	1,700	2.1	2.6	1.5	14	---	380	---	---	---	---	180.63	3.74	176.89	---
H-1	01/02/2003	---	1.1	<0.50	<0.50	3.6	---	---	---	---	---	---	180.63	1.45	179.18	---
H-1	01/30/2003	630	0.99	2.0	1.6	12	---	21	---	---	---	---	180.63	2.10	178.53	---
H-1	06/03/2003	55	<0.50	1.3	<0.50	2.4	---	2.6	---	---	---	---	180.63	3.38	177.25	---
H-1	08/27/2003	<50	0.55	<0.50	<0.50	1.2	---	2.8	---	---	---	---	180.63	4.10	176.53	---
H-1	11/25/2003	77 a	9.7	<0.50	<0.50	<1.0	---	21	---	---	---	---	180.63	3.72	176.91	---
H-1	02/05/2004	380	41	1.2	5.1	8.0	---	21	---	---	---	---	180.63	1.69	178.94	---
H-1	04/21/2004	640	27	0.63	2.0	2.3	---	33	---	---	---	---	180.63	2.14	178.49	---
H-1	08/12/2004	340	18	0.75	<0.50	1.7	---	43	---	---	---	---	180.63	4.78	175.85	---

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
H-1	11/08/2004	1,500	29	<1.0	1.7	<2.0	---	57	---	---	---	---	180.63	4.17	176.46	---
H-1	05/16/2005	150 e	<0.50	<0.50	<0.50	<1.0	---	48	---	---	---	---	180.63	4.16	176.47	---
H-1	08/16/2005	100 e	<0.50	<0.50	<0.50	<1.0	---	57	---	---	---	---	180.63	4.66	175.97	---
H-1	11/03/2005	<50.0	<0.500	<0.500	<0.500	<0.500	---	12.1	---	---	---	---	180.63	5.13	175.50	---
H-1	02/16/2006	4,230	<0.500	<0.500	37.7	80.5	---	7.12	---	---	---	---	180.63	1.87	178.76	---
H-1	05/05/2006	368	<0.500	<0.500	2.56	<0.500	---	22.2	---	---	---	---	180.63	2.21	178.42	---
H-1	08/21/2006	---	---	---	---	---	---	---	---	---	---	---	180.63	4.62	176.01	---
H-1	11/13/2006	---	---	---	---	---	---	---	---	---	---	---	180.63	3.89	176.74	---
H-1	01/30/2007	---	---	---	---	---	---	---	---	---	---	---	180.63	3.04	177.59	---
H-1	05/23/2007	330 f	7.9	0.32 g	0.48 g	0.61 g	---	74	---	---	---	---	180.63	3.38	177.25	---
H-1	08/09/2007	---	---	---	---	---	---	---	---	---	---	---	180.63	4.30	176.33	---
H-1	11/13/2007	---	---	---	---	---	---	---	---	---	---	---	180.63	1.97	178.66	---
H-1	02/13/2008	---	---	---	---	---	---	---	---	---	---	---	180.63	1.78	178.85	---
H-1	05/20/2008	230	19	<1.0	2.8	2.2	---	23	---	---	---	---	180.63	3.60	177.03	---
H-1	08/04/2008	---	---	---	---	---	---	---	---	---	---	---	180.63	3.27	177.36	---
H-1	12/02/2008	---	---	---	---	---	---	---	---	---	---	---	180.63	4.33	176.30	---
H-1	01/23/2009	---	---	---	---	---	---	---	---	---	---	---	180.63	2.03	178.60	---
H-1	05/05/2009	290	15	<1.0	7.1	4.2	---	36	---	---	---	---	180.63	2.76	177.87	---
H-1	08/07/2009	---	---	---	---	---	---	---	---	---	---	---	180.63	5.49	175.14	---
H-1	02/03/2010	2,700	85	1.5	130	62	---	24	---	---	---	---	180.63	2.45	178.18	---
H-1	08/31/2010	---	---	---	---	---	---	---	---	---	---	---	180.63	4.12	176.51	---
H-1	02/10/2011	1,800	51	1.3	120	65	---	36	---	---	---	---	180.63	3.10	177.53	---
H-1	07/22/2011	---	---	---	---	---	---	---	---	---	---	---	180.63	3.52	177.11	---
H-1	02/07/2012	560	20	<0.50	26	6.0	---	23	---	---	---	---	180.63	2.68	177.95	---
<b>H-1</b>	<b>07/19/2012</b>	---	---	---	---	---	---	---	---	---	---	---	<b>180.63</b>	<b>5.48</b>	<b>175.15</b>	---
T-1	05/30/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.65	---	---
T-1	08/21/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.69	---	---
T-1	11/03/1997	---	---	---	---	---	---	---	---	---	---	---	---	3.09	---	---
T-1	01/20/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.61	---	---

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
T-1	07/23/1998	---	---	---	---	---	---	---	---	---	---	---	---	2.32	---	---
T-1	02/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	1.95	---	---
T-1	09/07/1999	---	---	---	---	---	---	---	---	---	---	---	---	2.48	---	---
T-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	2.66	---	2.5
T-1	04/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.56	---	---
T-1	07/25/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.60	---	---
T-1	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.47	---	---
T-1	02/12/2001	---	---	---	---	---	---	---	---	---	---	---	---	1.20	---	---
T-1	06/07/2001	---	---	---	---	---	---	---	---	---	---	---	---	2.36	---	---
T-1	08/31/2001	---	---	---	---	---	---	---	---	---	---	---	---	3.45	---	---
T-1	01/09/2002	---	---	---	---	---	---	---	---	---	---	---	183.08	---	---	---
T-2	05/30/1997	---	---	---	---	---	---	---	---	---	---	---	---	1.81	---	---
T-2	08/21/1997	---	---	---	---	---	---	---	---	---	---	---	---	1.89	---	---
T-2	11/03/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.25	---	---
T-2	01/20/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.55	---	---
T-2	07/23/1998	---	---	---	---	---	---	---	---	---	---	---	---	1.21	---	---
T-2	02/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	1.08	---	---
T-2	09/07/1999	---	---	---	---	---	---	---	---	---	---	---	---	0.72	---	---
T-2	02/02/2000	1,540	53.4	20.8	11.4	21.8	1,330	---	---	---	---	---	---	0.98	---	3.0
T-2	04/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	1.02	---	---
T-2	07/25/2000	815	17.6	10.8	1.63	3.47	133	---	---	---	---	---	---	1.80	---	0.8
T-2	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	---	1.68	---	---
T-2	02/12/2001	310	7.48	7.76	0.693	2.28	301	---	---	---	---	---	---	1.45	---	1.6
T-2	06/07/2001	---	---	---	---	---	---	---	---	---	---	---	---	1.57	---	---
T-2	08/31/2001	720	30	0.67	<0.50	2.3	---	540	---	---	---	---	---	2.69	---	0.8
T-2	12/05/2001	---	---	---	---	---	---	---	---	---	---	---	---	0.58	---	---
T-2	01/31/2002	---	---	---	---	---	---	---	---	---	---	---	---	1.32	---	---
T-2	02/04/2002	1,000	41	30	4.6	20	---	1,200	---	---	---	---	---	1.46	---	---
T-2	06/04/2002	---	---	---	---	---	---	---	---	---	---	---	---	1.50	---	---

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water (ft TOC)	Elevation (ft MSL)	Reading (mg/L)
T-2	07/25/2002	660	11	0.59	<0.50	2.6	---	97	---	---	---	---	---	1.53	---	---
T-2	11/14/2002	---	---	---	---	---	---	---	---	---	---	---	182.30	2.39	179.91	---
T-2	01/30/2003	560	11	<0.50	<0.50	0.53	---	160	---	---	---	---	182.30	1.01	181.29	---
T-2	06/03/2003	---	---	---	---	---	---	---	---	---	---	---	182.30	1.55	180.75	---
T-2	08/27/2003	180 a	1.6	<0.50	<0.50	<1.0	---	10	---	---	---	---	182.30	1.60	180.70	---
T-2	11/25/2003	---	---	---	---	---	---	---	---	---	---	---	182.30	1.64	180.66	---
T-2	02/05/2004	940	110	10	2.4	14	---	67	---	---	---	---	182.30	0.66	181.64	---
T-2	04/21/2004	---	---	---	---	---	---	---	---	---	---	---	182.30	1.50	180.80	---
T-2	08/12/2004	450	<0.50	<0.50	<0.50	<1.0	---	33	---	---	---	---	182.30	2.72	179.58	---
T-2	11/08/2004	---	---	---	---	---	---	---	---	---	---	---	182.30	1.72	180.58	---
T-3	05/30/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.31	---	---
T-3	08/21/1997	---	---	---	---	---	---	---	---	---	---	---	---	1.57	---	---
T-3	11/03/1997	---	---	---	---	---	---	---	---	---	---	---	---	3.50	---	---
T-3	01/20/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.76	---	---
T-3	07/23/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.82	---	---
T-3	02/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	0.55	---	---
T-3	09/07/1999	---	---	---	---	---	---	---	---	---	---	---	---	2.89	---	---
T-3	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	3.02	---	2.9
T-3	04/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.81	---	---
T-3	07/25/2000	---	---	---	---	---	---	---	---	---	---	---	---	3.00	---	---
T-3	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	---	1.70	---	---
T-3	02/12/2001	---	---	---	---	---	---	---	---	---	---	---	---	2.11	---	---
T-3	06/07/2001	---	---	---	---	---	---	---	---	---	---	---	---	1.68	---	---
T-3	08/31/2001	---	---	---	---	---	---	---	---	---	---	---	---	3.14	---	---
T-3	01/09/2002	---	---	---	---	---	---	---	---	---	---	---	180.95	---	---	---

**Notes:**

TPHg = Total petroleum hydrocarbons as gasoline = analyzed by EPA Method 8260B; prior to June 7, 2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to June 7, 2001, analyzed by EPA Method 8020.



**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading

MTBE = Methyl tertiary-butyl ether analyzed by method noted  
 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  
 TOC = Top of casing elevation, in feet relative to mean sea level  
 SPH = Separate-phase hydrocarbon  
 GW = Groundwater  
 DO = Dissolved oxygen  
 µg/L = Micrograms per liter  
 ft = Feet  
 MSL = Mean sea level  
 mg/L = Milligrams per liter  
 <x = Not detected at reporting limit x  
 --- = Not analyzed or not available  
 (D) = Duplicate sample

a = Chromatogram pattern indicated an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.  
 b = Sample analyzed outside of EPA recommended hold time.  
 c = Sampled by client (Cambria Environmental Technology)  
 d = Unable to gauge depth to water  
 e = Quantity of unknown hydrocarbon(s) in sample based on gasoline.  
 f = Analyzed by EPA Method 8015B (M).  
 g = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Site wells surveyed January 9, 2002 by Virgil Chavez Land Surveying

APPENDIX A

BLAINE TECH SERVICES, INC. -  
FIELD NOTES



## SHELL WELL MONITORING DATA SHEET

BTS #: 120719-BPI	Site: 5755 Broadway Oakland
Sampler: BP	Date: 7-19-12
Well I.D.: 5-1	Well Diameter: 2 (3) 4 6 8
Total Well Depth (TD): 11.29	Depth to Water (DTW): 3.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.05	

Purge Method: Bailer      Waterra      Sampling Method: Bailer  
 Disposable Bailer      Peristaltic      Disposable Bailer  
 Positive Air Displacement      Extraction Pump      Extraction Port  
Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing  
 Other: \_\_\_\_\_

2.9 (Gals.) X	3	= 8.7 Gals.
I Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NFUs)	Gals. Removed	Observations
0900	68.9	8.24	307	40	3.0	
Well dewatered			@ 4.0 Gallons			
1100	68.7	8.51	370	53	—	
	✓	high pH w/ 2nd MyronL Ultrameter				

Did well dewater? Yes No      Gallons actually evacuated: 4.0

Sampling Date: 7-19-12      Sampling Time: 1100      Depth to Water: 8.60 (2 hr)

Sample I.D.: 5-1      Laboratory: Test America Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE DOC

EB I.D. (if applicable): @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

# SHELL WELL MONITORING DATA SHEET

BTS #: 120719-BP1	Site: 5755 Broadway Oakland
Sampler: BP	Date: 7-19-12
Well I.D.: S-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 9.43	Depth to Water (DTW): 4.24
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.27	

Purge Method: Bailer      Waterra      Sampling Method: Bailer  
 Disposable Bailer      Peristaltic      Disposable Bailer  
 Positive Air Displacement      Extraction Pump      Extraction Port  
Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing

Other: \_\_\_\_\_

$3.4$  (Gals.) X  $3$  =  $10.2$  Gals.  
 I Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
0913	67.6	6.70	567	51	3.5	
Well Dewatered			@ 3.6	Gallons		
1020	68.3	6.90	548	20	—	

Did well dewater? Yes No      Gallons actually evacuated: 3.6

Sampling Date: 7-19-12      Sampling Time: 1020      Depth to Water: 5.15

Sample I.D.: S-2      Laboratory: Test America Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE LOC

EB I.D. (if applicable): @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 120719-BP1	Site: 5755 Broadway Oakland
Sampler: BP	Date: 7-19-12
Well I.D.: S-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 9.50	Depth to Water (DTW): 3.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.69	

Purge Method: Bailer Disposable Bailer Positive Air Displacement <u>Electric Submersible</u>	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
---	--	--

3.9 (Gals.) X	3	= 11.7 Gals.
I Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
0847	68.4	6.68	716	18	4.0	
Well Dewatered @ 6.1 Gals						
0955	66.2	7.29	809	14	—	

Did well dewater? Yes No      Gallons actually evacuated: 6.1

Sampling Date: 7-19-12      Sampling Time: 0955      Depth to Water: 4.15

Sample I.D.: S-3      Laboratory: Test America Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE LOC

EB I.D. (if applicable): @ Time      Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

INCIDENT #

48493756

ADDRESS

5755 Broadway

DATE:

7-19-12

CITY & STATE

Oakland CA

Well ID	Observations Upon Arrival												Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials		
	Manway Cover, Type, Condition & Size					Well Labeled/ Painted Property*		Well Cap (Gripper) Condition		Well Lock Condition				Well Pad / Surface Condition				
S-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
S-2	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P	cracked apron	Y	N	
S-3	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
H-1	Standpipe	Flush	G	P	Size (inch) 24x36	Y	N	G	R	G	R	NL	G	P	vault 1/2 bolts missing	Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = [ ] = TOTAL # OF LOCKS REPLACED

Condition of Soil Borings Patches or Abandoned Monitoring Wells:	G	P	N/A	(If POOR Borings/Well IDs or Location Description)	Y	N
--	---	---	-----	--	---	---

Remediation Compound Type (Check boxes that apply)	Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition	Repair Date and PM Initials
NA															
Building															
Building w/ Fence Comp.	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N
Fenced Compound															
Trailer															

Number of Drums On-site	Does the Label Reveal the Source of the Contents	Labeled Correctly and Writing Legible			Drum Condition			Confirms Drums Related to Environmental	Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition	Date Drums Removed from Site and PM Initials		
2	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A	Y	N

G = Good (Acceptable) R = Replaced  
 P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

\* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.  
 Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Ben Panell Blain Tech Services  
 Print or type Name of Field Personnel & Consultant Company

APPENDIX B

TESTAMERICA LABORATORIES INC. -  
ANALYTICAL REPORT



# 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: 440-18025-1

Client Project/Site: 5755 Broadway, Oakland, CA

For:

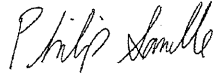
Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

7/30/2012 4:48:27 PM

Philip Sanelle

Project Manager I

philip.sanelle@testamericainc.com

### LINKS

Review your project  
results through

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Have a Question?

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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
Chronicle . . . . .	7
QC Sample Results . . . . .	8
QC Association . . . . .	11
Definitions . . . . .	12
Certification Summary . . . . .	13
Chain of Custody . . . . .	14
Receipt Checklists . . . . .	15

# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-18025-1	S-1	Water	07/19/12 11:00	07/20/12 09:50
440-18025-2	S-2	Water	07/19/12 10:20	07/20/12 09:50
440-18025-3	S-3	Water	07/19/12 09:55	07/20/12 09:50

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

---

**Job ID: 440-18025-1**

---

**Laboratory: TestAmerica Irvine**

**Narrative**

---

**Job Narrative  
440-18025-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/20/2012 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.8° C, 1.9° C, 2.3° C and 2.5° 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: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

**Client Sample ID: S-1**

**Lab Sample ID: 440-18025-1**

Date Collected: 07/19/12 11:00

Matrix: Water

Date Received: 07/20/12 09:50

**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			07/24/12 03:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	94		80 - 120					07/24/12 03:58	1
4-Bromofluorobenzene (Surr)	95		80 - 120					07/24/12 03:58	1
Toluene-d8 (Surr)	105		80 - 120					07/24/12 03:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.90		0.50		ug/L			07/24/12 03:58	1
Toluene	ND		0.50		ug/L			07/24/12 03:58	1
Ethylbenzene	ND		0.50		ug/L			07/24/12 03:58	1
Xylenes, Total	ND		1.0		ug/L			07/24/12 03:58	1
Methyl-t-Butyl Ether (MTBE)	2.8		0.50		ug/L			07/24/12 03:58	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/24/12 03:58	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/24/12 03:58	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/24/12 03:58	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/24/12 03:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	95		80 - 120					07/24/12 03:58	1
Dibromofluoromethane (Surr)	94		80 - 120					07/24/12 03:58	1
Toluene-d8 (Surr)	105		80 - 120					07/24/12 03:58	1

**Client Sample ID: S-2**

**Lab Sample ID: 440-18025-2**

Date Collected: 07/19/12 10:20

Matrix: Water

Date Received: 07/20/12 09:50

**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)	2800		130		ug/L			07/24/12 04:29	2.5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	92		80 - 120					07/24/12 04:29	2.5
4-Bromofluorobenzene (Surr)	97		80 - 120					07/24/12 04:29	2.5
Toluene-d8 (Surr)	104		80 - 120					07/24/12 04:29	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	70		1.3		ug/L			07/24/12 04:29	2.5
Toluene	ND		1.3		ug/L			07/24/12 04:29	2.5
Ethylbenzene	ND		1.3		ug/L			07/24/12 04:29	2.5
Xylenes, Total	ND		2.5		ug/L			07/24/12 04:29	2.5
Methyl-t-Butyl Ether (MTBE)	120		1.3		ug/L			07/24/12 04:29	2.5
tert-Butyl alcohol (TBA)	170		25		ug/L			07/24/12 04:29	2.5
Isopropyl Ether (DIPE)	ND		1.3		ug/L			07/24/12 04:29	2.5
Ethyl-t-butyl ether (ETBE)	ND		1.3		ug/L			07/24/12 04:29	2.5
Tert-amyl-methyl ether (TAME)	ND		1.3		ug/L			07/24/12 04:29	2.5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	97		80 - 120					07/24/12 04:29	2.5
Dibromofluoromethane (Surr)	92		80 - 120					07/24/12 04:29	2.5

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

**Client Sample ID: S-2**

**Lab Sample ID: 440-18025-2**

Date Collected: 07/19/12 10:20

Matrix: Water

Date Received: 07/20/12 09:50

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		07/24/12 04:29	2.5

**Client Sample ID: S-3**

**Lab Sample ID: 440-18025-3**

Date Collected: 07/19/12 09:55

Matrix: Water

Date Received: 07/20/12 09:50

**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			07/24/12 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 - 120		07/24/12 04:59	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/24/12 04:59	1
Toluene-d8 (Surr)	104		80 - 120		07/24/12 04:59	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			07/24/12 04:59	1
Toluene	ND		0.50		ug/L			07/24/12 04:59	1
Ethylbenzene	ND		0.50		ug/L			07/24/12 04:59	1
Xylenes, Total	ND		1.0		ug/L			07/24/12 04:59	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			07/24/12 04:59	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/24/12 04:59	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/24/12 04:59	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/24/12 04:59	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/24/12 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		07/24/12 04:59	1
Dibromofluoromethane (Surr)	94		80 - 120		07/24/12 04:59	1
Toluene-d8 (Surr)	104		80 - 120		07/24/12 04:59	1

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

## Client Sample ID: S-1

Date Collected: 07/19/12 11:00

Date Received: 07/20/12 09:50

Lab Sample ID: 440-18025-1

Matrix: Water

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	40456	07/24/12 03:58	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	40457	07/24/12 03:58	RM	TAL IRV

## Client Sample ID: S-2

Date Collected: 07/19/12 10:20

Date Received: 07/20/12 09:50

Lab Sample ID: 440-18025-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	10 mL	10 mL	40456	07/24/12 04:29	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		2.5	10 mL	10 mL	40457	07/24/12 04:29	RM	TAL IRV

## Client Sample ID: S-3

Date Collected: 07/19/12 09:55

Date Received: 07/20/12 09:50

Lab Sample ID: 440-18025-3

Matrix: Water

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	40456	07/24/12 04:59	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	40457	07/24/12 04:59	RM	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: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

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

Lab Sample ID: MB 440-40456/4

Matrix: Water

Analysis Batch: 40456

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			07/23/12 19:55	1
Toluene	ND		0.50		ug/L			07/23/12 19:55	1
Ethylbenzene	ND		0.50		ug/L			07/23/12 19:55	1
Xylenes, Total	ND		1.0		ug/L			07/23/12 19:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			07/23/12 19:55	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/23/12 19:55	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/23/12 19:55	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/23/12 19:55	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/23/12 19:55	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	99		80 - 120		07/23/12 19:55	1
Dibromofluoromethane (Surr)	99		80 - 120		07/23/12 19:55	1
Toluene-d8 (Surr)	104		80 - 120		07/23/12 19:55	1

Lab Sample ID: LCS 440-40456/5

Matrix: Water

Analysis Batch: 40456

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	25.9		ug/L		104	70 - 120
Toluene	25.0	26.9		ug/L		107	70 - 120
Ethylbenzene	25.0	28.1		ug/L		112	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	27.4		ug/L		109	60 - 135
tert-Butyl alcohol (TBA)	125	131		ug/L		105	70 - 135
Isopropyl Ether (DIPE)	25.0	26.7		ug/L		107	60 - 135
Ethyl-t-butyl ether (ETBE)	25.0	25.5		ug/L		102	65 - 135
m,p-Xylene	50.0	56.5		ug/L		113	75 - 125
o-Xylene	25.0	27.0		ug/L		108	75 - 125
Tert-amyl-methyl ether (TAME)	25.0	26.5		ug/L		106	60 - 135

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 440-17968-A-1 MS

Matrix: Water

Analysis Batch: 40456

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	0.97		25.0	26.6		ug/L		103	65 - 125
Toluene	ND		25.0	26.7		ug/L		107	70 - 125
Ethylbenzene	1.1		25.0	29.8		ug/L		115	65 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.4		ug/L		102	55 - 145
tert-Butyl alcohol (TBA)	ND		125	124		ug/L		100	65 - 140
Isopropyl Ether (DIPE)	43		25.0	67.1		ug/L		97	60 - 140
Ethyl-t-butyl ether (ETBE)	ND		25.0	23.5		ug/L		94	60 - 135
m,p-Xylene	ND		50.0	58.0		ug/L		116	65 - 130



## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

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

Lab Sample ID: 440-17968-A-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 40456

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
o-Xylene	ND		25.0	26.7		ug/L		107	65 - 125
Tert-amyl-methyl ether (TAME)	ND		25.0	25.0		ug/L		100	60 - 140

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: 440-17968-A-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 40456

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Benzene	0.97		25.0	26.1		ug/L		101	65 - 125	2		20
Toluene	ND		25.0	26.0		ug/L		104	70 - 125	3		20
Ethylbenzene	1.1		25.0	28.4		ug/L		109	65 - 130	5		20
Methyl-t-Butyl Ether (MTBE)	ND		25.0	26.9		ug/L		108	55 - 145	6		25
tert-Butyl alcohol (TBA)	ND		125	122		ug/L		98	65 - 140	2		25
Isopropyl Ether (DIPE)	43		25.0	68.8		ug/L		104	60 - 140	2		25
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.6		ug/L		98	60 - 135	4		25
m,p-Xylene	ND		50.0	55.1		ug/L		110	65 - 130	5		25
o-Xylene	ND		25.0	25.9		ug/L		103	65 - 125	3		20
Tert-amyl-methyl ether (TAME)	ND		25.0	26.6		ug/L		106	60 - 140	6		30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
Toluene-d8 (Surr)	104		80 - 120

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

Lab Sample ID: MB 440-40457/4

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 40457

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			07/23/12 19:55	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	99		80 - 120		07/23/12 19:55	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/23/12 19:55	1
Toluene-d8 (Surr)	104		80 - 120		07/23/12 19:55	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

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

Lab Sample ID: LCS 440-40457/6

Matrix: Water

Analysis Batch: 40457

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)	500	493		ug/L		99	55 - 130
<b>Surrogate</b>							
		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
Dibromofluoromethane (Surr)		102					80 - 120
4-Bromofluorobenzene (Surr)		102					80 - 120
Toluene-d8 (Surr)		105					80 - 120

Lab Sample ID: 440-17968-A-1 MS

Matrix: Water

Analysis Batch: 40457

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)	200		1730	1870		ug/L		97	50 - 145
<b>Surrogate</b>									
		<b>MS %Recovery</b>		<b>MS Qualifier</b>					<b>Limits</b>
Dibromofluoromethane (Surr)		98							80 - 120
4-Bromofluorobenzene (Surr)		104							80 - 120
Toluene-d8 (Surr)		106							80 - 120

Lab Sample ID: 440-17968-A-1 MSD

Matrix: Water

Analysis Batch: 40457

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
Volatile Fuel Hydrocarbons (C4-C12)	200		1730	1860		ug/L		96	50 - 145	1	20
<b>Surrogate</b>											
		<b>MSD %Recovery</b>		<b>MSD Qualifier</b>					<b>Limits</b>		
Dibromofluoromethane (Surr)		96							80 - 120		
4-Bromofluorobenzene (Surr)		102							80 - 120		
Toluene-d8 (Surr)		104							80 - 120		

## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

### GC/MS VOA

#### Analysis Batch: 40456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-17968-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-17968-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-18025-1	S-1	Total/NA	Water	8260B	
440-18025-2	S-2	Total/NA	Water	8260B	
440-18025-3	S-3	Total/NA	Water	8260B	
LCS 440-40456/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-40456/4	Method Blank	Total/NA	Water	8260B	

#### Analysis Batch: 40457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-17968-A-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-17968-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
440-18025-1	S-1	Total/NA	Water	8260B/CA_LUFT MS	
440-18025-2	S-2	Total/NA	Water	8260B/CA_LUFT MS	
440-18025-3	S-3	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-40457/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-40457/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

### 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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
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: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-18025-1

## 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
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	07-31-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-12
USDA	Federal		P330-09-00080	06-06-14



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-18025-1

**Login Number: 18025**

**List Source: TestAmerica Irvine**

**List Number: 1**

**Creator: King, Ronald**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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	Ben Panell
There are no discrepancies between the sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	