CONESTOGA-ROVERS & ASSOCIATES

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TRANSMITTAL

DATE: November 14, 2014 **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
By Alameda County Environmental Health at 11:45 am, Nov 17, 2014

Please find enclosed:
- ☐ Draft
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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Third Quarter 2014

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

COMMENTS:
If you have any questions regarding the contents 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)
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

Shell Oil Products US
Soil and Groundwater Focus Delivery Group
20945 S. Wilmington Avenue
Carson, CA 90810
Tel (425) 413 1164
Fax (425) 413 0988
Email perry.pineda@shell.com
Internet http://www.shell.com

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

Re: 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.

As always, please feel free to contact me directly at (425) 413-1164 with any questions or concerns.

Sincerely,
Shell Oil Products US

Perry Pineda
Senior Environmental Program Manager

GROUNDWATER MONITORING REPORT – THIRD QUARTER 2014

SHELL-BRANDED SERVICE STATION
5755 BROADWAY
OAKLAND, CALIFORNIA

SAP CODE	**135699**
INCIDENT NO.	**98995756**
AGENCY NO.	**RO0000026**

Prepared by:
Conestoga-Rovers & Associates

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

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NOVEMBER 14, 2014
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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	Perry Pineda
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 September 22, 2014.

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.

CRA submitted a *Subsurface Investigation Report* on September 2, 2014, which detailed off-site soil vapor investigation results from the adjacent property located at 5606 Taft Avenue, Oakland.

Alameda County Environmental Health's (ACEH's) September 22, 2014 letter requested a case closure evaluation report by December 22, 2014.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Southerly
Hydraulic Gradient	Averages 0.05
Depth to Water	4.18 to 5.74 feet below top of well casing

2.3 PROPOSED ACTIVITIES

CRA will submit a case closure evaluation report by December 22, 2014.

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, CHG, CEG

Aubrey K. Cool, PG

FIGURES

05/29/2013

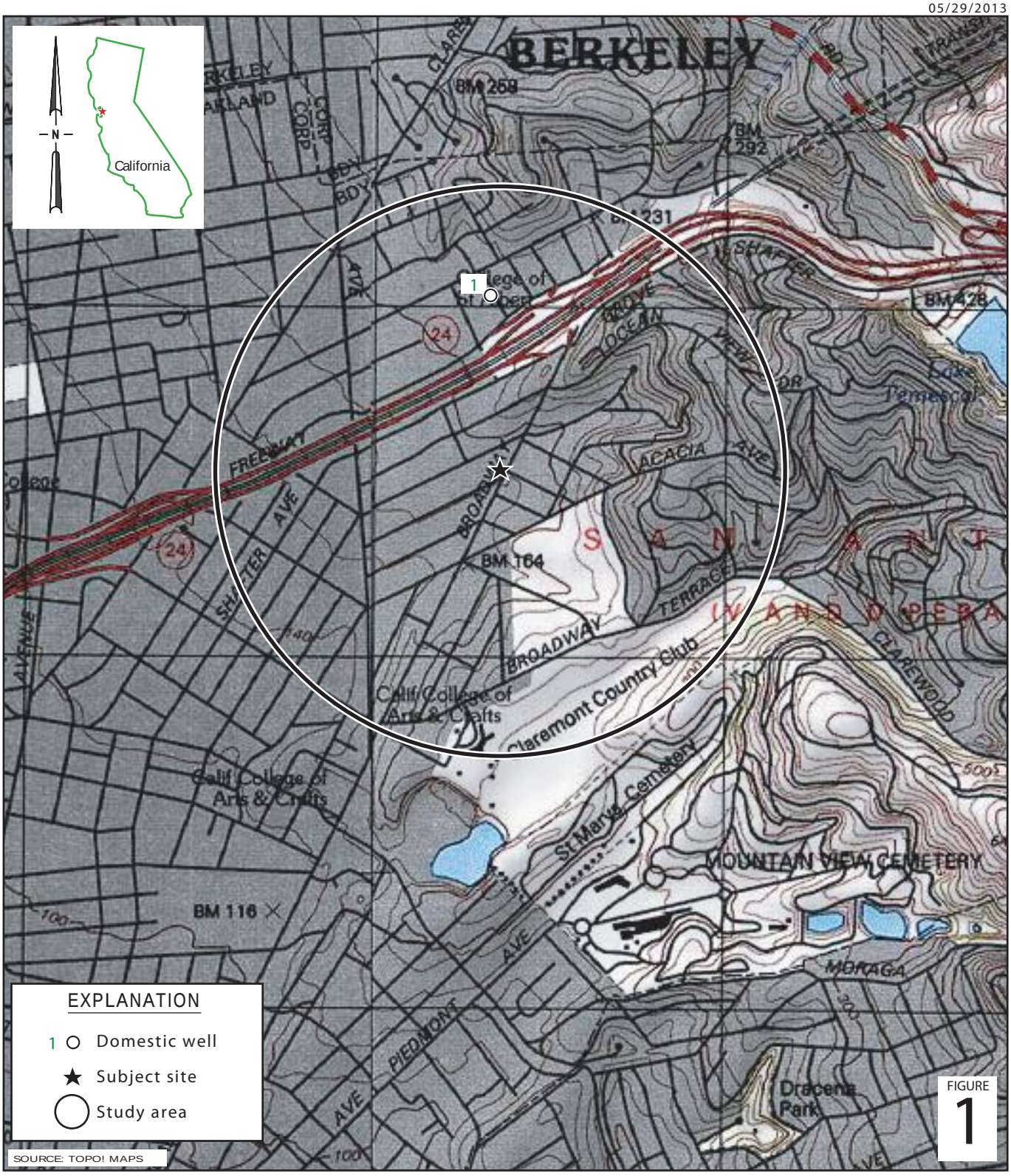

FIGURE 1

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

Shell-branded Service Station
5755 Broadway
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

EXPLANATION

VP-1 — Soil vapor probe location (CRA, 2013)

S-1 — Monitoring well location

S-2 — Groundwater monitoring well previously 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)

W — Water line (W)

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 / MTBE — Benzene and MTBE concentrations are in micrograms per liter

Notes:
<X = Not detected at reporting limit X

N

0 10 20ft

Water Producing Well 18D1

Location of Nearest Sensitive Receptor Relative to Site (1,320 ft., N4°W)

N W E S

Residential

Planter

Air/ Water

Shell Station
5755 Broadway

S-3
179.17
<0.50
<0.50

T-1

USTs

178.50

178.50

Station Building

T-2

Dispenser Islands

S-1
177.71
<0.50
4.6

Gate

Planter

Brick Stairs

Apartments
5606 Taft Avenue

VP-2

177.00

177.00

Grout Barrier

0.05

T-3

Trench

175.50

175.50

Sidewalk

BROADWAY

VP-1

Concrete Walkway

Planter

Planter

S-2
176.50
250
96

H-1
174.89
NS

4" SCH 40 PVC Vertical Access Pipe to Horizontal Well **H-1**

Residential

Sidewalk

TAFT STREET

Crosswalk

4" Horizontal Groundwater Well

Figure 2

Groundwater Contour and Chemical Concentration Map
August 29, 2014
Shell-branded Service Station
5755 Broadway
Oakland, California

I:\Shell\6-chars\2404--\240483-Oakland 5755 Broadway\240483-REPORTS\240483-RPT23-3Q14.DWG (11/04/2014)

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
S-1	07/03/1985	2,400 a	240 a	9.8 a	380 a,b	380 a,b	---	---	---	---	---	---	---	---	---	---
S-1	08/15/1989	170 a	0.6 a	<0.5 a	<1.5 a	<1.5 a	---	---	---	---	---	---	---	---	---	---
S-1	10/05/1989	---	---	---	---	---	---	---	---	---	---	---	100.00 c	3.80	96.20	---
S-1	11/13/1989	90 a	1.2 a	<0.5 a	<1.5 a	<1.5 a	---	---	---	---	---	---	100.00	3.72	96.28	---
S-1	01/18/1990	<50 a	57 a	3.1 a	5.7 a	10 a	---	---	---	---	---	---	100.00	2.87	97.13	---
S-1	02/20/1990	---	---	---	---	---							100.00	2.71	97.29	---
S-1	04/11/1990	520 a	120 a	2.2 a	0.44 a	6.0 a	---	---	---	---	---	---	100.00	3.36	96.64	---
S-1	07/27/1990	<30 a	2.7 a	0.31 a	<0.3 a	0.47 a	---	---	---	---	---	---	100.00	3.60	96.40	---
S-1	10/17/1990	<30 a	0.99 a	<0.3 a	<0.3 a	<0.3 a	---	---	---	---	---	---	100.00	4.09	95.91	---
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	---	---	---	---	---	---	100.00	---	---	---
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	70 d	<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	60 d	<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	60 d	0.50	<0.5	<0.5	<0.5	---	---	---	---	---	---	100.00	---	---	---
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	---

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
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	---	---	---	---	---	100.00	---	---	---
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	---	---	---	---	---	100.00	---	---	---
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	---

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
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	---
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 i	0.35 j	<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 i	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	---

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
S-1	01/25/2013	<50	<0.50	<0.50	<0.50	<1.0	---	1.5	---	---	---	---	181.89	0.65	181.24	---
S-1	08/08/2013	<50	<0.50	<0.50	<0.50	<1.0	---	2.5	<10	<0.50	<0.50	<0.50	181.89	4.01	177.88	---
S-1	02/11/2014	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	181.89	0.55	181.34	---
S-1	**08/29/2014**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**4.6**	**<10**	**<0.50**	**<0.50**	**<0.50**	**181.89**	**4.18**	**177.71**	**---**
S-2	09/22/1989	260 a	15 a	2 a	1 a	13 a	---	---	---	---	---	---	---	---	---	---
S-2	10/05/1989	---	---	---	---	---	---	---	---	---	---	---	98.92	4.44	94.48	---
S-2	11/13/1989	910 a	64 a	5.8 a	13 a	84 a	---	---	---	---	---	---	98.92	4.44	94.48	---
S-2	01/18/1990	1,100 a	74 a	5.6 a	13 a	45 a	---	---	---	---	---	---	98.92	3.41	95.51	---
S-2	02/20/1990	---	---	---	---	---	---	---	---	---	---	---	98.92	3.19	95.73	---
S-2	04/11/1990	2,900 a	510 a	6.5 a	29 a	120 a	---	---	---	---	---	---	98.92	3.94	94.98	---
S-2	07/27/1990	700 a	210 a	2.5 a	18 a	33 a	---	---	---	---	---	---	98.92	4.13	94.79	---
S-2	10/17/1990	320 a	44 a	0.75 a	7.9 a	4.6 a	---	---	---	---	---	---	98.92	4.57	94.35	---
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	---
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	---	---	---	---	---	---	98.92	---	---	---
S-2	11/02/1993	12,000 d	470	47	31	92	---	---	---	---	---	---	98.92	4.72	94.20	---
S-2 (D)	11/02/1993	13,000 d	530	47	35	96	---	---	---	---	---	---	98.92	---	---	---
S-2	12/16/1993	---	---	---	---	---	---	---	---	---	---	---	98.92	3.00	95.92	---
S-2	02/01/1994	31,000 d	430	46	50	130	---	---	---	---	---	---	98.92	3.48	95.44	---
S-2 (D)	02/01/1994	31,000 d	300	33	30	100	---	---	---	---	---	---	98.92	---	---	---

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
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	---	---	---	---	---	---	98.92	---	---	---
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 d	240	9.3	13	20	---	---	---	---	---	---	98.92	3.10	95.82	---
S-2 (D)	11/09/1994	1,800	260	8.5	13	21	---	---	---	---	---	---	98.92	---	---	---
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	---	---	---	---	---	---	98.92	---	---	---
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	---	---	---	---	---	---	98.92	---	---	---
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	---	---	---	---	---	---	98.92	---	---	---
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	---	---	---	---	---	---	98.92	---	---	---
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	---	---	---	---	---	---	98.92	---	---	---
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	---	---	---	---	---	---	98.92	---	---	---
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	---	---	---	---	98.92	---	---	---
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	---	---	---	---	---	98.92	---	---	---
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	---	---	---	---	---	98.92	---	---	---
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	---	---	---	---	---	98.92	---	---	---
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

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
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 e	---	---	---	---	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 e	35.6 e	<5.00 e	<5.00 e	7.36 e	18,100 e	17,800 e	---	---	---	---	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 f	8,400 d	<50	<50	<50	<100	---	4,500	---	---	---	---	180.79	---	---	---
S-2	02/05/2004	Well inaccessible		---	---	---	---	---	---	---	---	---	180.79	---	---	---
S-2	02/10/2004 f	<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	---
S-2	08/12/2004	2,600	63	<13	<13	<25	---	1,400	1,200	<50	<50	<50	180.79	g	---	---
S-2	11/08/2004	3,600	<25	<25	<25	<50	---	1,300	---	---	---	---	180.79	g	---	---
S-2	05/16/2005	73 h	<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	---

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
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 i	410	2.3 j	92	24.8 j	---	890	620	---	---	---	180.79	2.61	178.18	---
S-2	08/09/2007	4,100 i	320	<10	30	11	---	650	1,400	<20	<20	<20	180.79	3.72	177.07	---
S-2	11/13/2007	4,900 i	230	<10	33	12	---	540	590	<20	<20	<20	180.79	2.31	178.48	---
S-2	02/13/2008	4,800 i	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	---
S-2	07/19/2012	2,800	70	<1.3	<1.3	<2.5	---	120	170	<1.3	<1.3	<1.3	180.79	4.24	176.55	---
S-2	01/25/2013	4,100	230	<1.0	25	4.6	---	280	370	---	---	---	180.79	2.49	178.30	---
S-2	08/08/2013	3,800	130	<2.5	<2.5	<5.0	---	160	390	<2.5	<2.5	<2.5	180.79	4.07	176.72	---
S-2	02/11/2014	3,200	330	<2.5	4.5	<5.0	---	180	580	---	---	---	180.79	2.76	178.03	---
S-2	**08/29/2014**	**3,900**	**250**	**<2.5**	**<2.5**	**<5.0**	**---**	**96**	**520**	**<2.5**	**<2.5**	**<2.5**	**180.79**	**4.29**	**176.50**	**---**
S-3	09/22/1989	<50 a	<0.5 a	<0.5 a	<1.5 a	<1.5 a	---	---	---	---	---	---	---	---	---	---
S-3	10/05/1989	---	---	---	---	---	---	---	---	---	---	---	101.67	3.97	97.70	---
S-3	11/13/1989	<50 a	<0.5 a	<0.5 a	<1.5 a	<1.5 a	---	---	---	---	---	---	101.67	3.76	97.91	---
S-3	01/18/1990	<50 a	<0.5 a	<0.5 a	<0.5 a	<0.5 a	---	---	---	---	---	---	101.67	2.43	99.24	---
S-3	02/20/1989	---	---	---	---	---	---	---	---	---	---	---	101.67	2.27	99.40	---
S-3	04/11/1990	<50 a	<0.3 a	<0.3 a	<0.3 a	<0.3 a	---	---	---	---	---	---	101.67	2.88	98.79	---
S-3	07/27/1990	<50 a	<0.3 a	<0.3 a	<0.3 a	<0.3 a	---	---	---	---	---	---	101.67	3.55	98.12	---
S-3	10/17/1990	<50 a	<0.3 a	<0.3 a	<0.3 a	<0.3 a	---	---	---	---	---	---	101.67	4.29	97.38	---

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
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	---
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	---	---	---	---	---	---	101.67	---	---	---
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

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
S-3 (D)	11/03/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	---	---	---
S-3	01/20/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	101.67	---	---	---
S-3	07/23/1998	---	---	---	---	---	---	---	---	---	---	---	101.67	2.69	98.98	---
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	---

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
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	---
S-3	05/23/2007	---	---	---	---	---	---	---	---	---	---	---	183.54	2.65	180.89	---
S-3	08/09/2007	<50 i	<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 i	<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	---
S-3	01/25/2013	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	183.54	2.30	181.24	---
S-3	08/08/2013	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	183.54	4.10	179.44	---
S-3	02/11/2014	<50	7.4	0.67	0.61	2.2	---	<0.50	---	---	---	---	183.54	1.62	181.92	---
S-3	**08/29/2014**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**183.54**	**4.37**	**179.17**	**---**
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	---

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
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 d	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	---
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 h	<0.50	<0.50	<0.50	<1.0	---	48	---	---	---	---	180.63	4.16	176.47	---
H-1	08/16/2005	100 h	<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 i	7.9	0.32 j	0.48 j	0.61 j	---	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	---

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
H-1	02/07/2012	560	20	<0.50	26	6.0	---	23	---	---	---	---	180.63	2.68	177.95	---
H-1	07/19/2012	---	---	---	---	---	---	---	---	---	---	---	180.63	5.48	175.15	---
H-1	01/25/2013	260	3.5	<0.50	1.1	<1.0	---	20	---	---	---	---	180.63	3.69	176.94	---
H-1	08/08/2013	---	---	---	---	---	---	---	---	---	---	---	180.63	5.44	175.19	---
H-1	02/11/2014	580	53	0.72	13	19	---	27	---	---	---	---	180.63	2.21	178.42	---
H-1	**08/29/2014**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**180.63**	**5.74**	**174.89**	**---**
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	---	---
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	---	---

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
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	---	---
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 d	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

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*
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 unless otherwise noted.
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 = Analytical method unknown

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 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*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)*

b = Ethylbenzene and total xylenes combined
c = Temporary datum of 100.00 feet assigned to TOC
d = Chromatogram pattern indicated an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.
e = Sample analyzed outside of EPA recommended hold time.
f= Sampled by client (Cambria Environmental Technology)
g = Unable to gauge depth to water
h = Quantity of unknown hydrocarbon(s) in sample based on gasoline.
i = Analyzed by EPA Method 8015B (M).
j = 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

WELL GAUGING DATA

Project # 140829-DR2 Date 8/29/14 Client Shell

Site 5755 Bradley Oakland, Ca.

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
S-1	1031	3					4.18	11.31		
S-2	1035	4					4.29	9.45		
S-3	1027	4					4.37	9.50		
H-1	1040	4					5.74	11.98		

SHELL WELL MONITORING DATA SHEET

BTS #: 140829-DM1	Site: 5755 Broadway Oakland Ca.
Sampler: DM	Date: 8/29/14
Well I.D.: S-1	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 11.31	Depth to Water (DTW): 4.18
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]: 5.61	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, ~~Electric Submersible~~, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: ~~Bailer~~, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

2.6 (Gals.) X 3 = 7.8 Gals.
1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1126	73.2	7.66	407	47	2.6	
@ well	dry	hand	4.5 gal.			
1215	72.7	7.89	422	151	—	

Did well dewater? ~~Yes~~ No Gallons actually evacuated: 4.5

Sampling Date: 8/29/14 Sampling Time: 1215 Depth to Water: 4.54

Sample I.D.: S-1 Laboratory: ~~Test America~~ Other_____

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

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 #: 140829-DR2	Site: 5755 Broadway Oakland, CA.
Sampler: DR	Date: 8/29/14
Well I.D.: S-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 9.45	Depth to Water (DTW): 4.29
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]: 5.37	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other:_____

3.4 (Gals.) X 3 = 10.2 Gals.
1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1147	69.9	6.93	639	27	3.4	
@ well	dewatered @		4.0 gal.			
1230	68.2	7.11	627	79	—	

Did well dewater? (Yes) No Gallons actually evacuated: 4.0

Sampling Date: 8/29/14 Sampling Time: 1230 Depth to Water: 5.02

Sample I.D.: S-2 Laboratory: (Test America) Other_____

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

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 #: 140829-DR2	Site: 5755 Bradley Oakland CA.
Sampler: DR	Date: 8/29/14
Well I.D.: S-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 9.50	Depth to Water (DTW): 4.37
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]: 5.40	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, ~~Electric Submersible~~, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

3.3 (Gals.) X 3 = 9.9 Gals.
1 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^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1104	71.0	6.89	715	33	3.3	
* well dewatered @			5.0 gal.			
1200	71.2	7.02	774	41	—	

Did well dewater? (Yes) No Gallons actually evacuated: 5.0

Sampling Date: 8/29/14 Sampling Time: 1200 Depth to Water: 5.09

Sample I.D.: S-3 Laboratory: (Test America) Other_____

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

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

Page 1 of 1

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 98995756

ADDRESS 5755 Broadway

DATE: 8/29/14

CITY & STATE Oakland Ca.

Well ID	Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
S-1	Standpipe	Flush (circled)	G (circled)	P	Size (inch) 12	Y (circled)	N	G (circled)	R	G (circled)	R	NL	G (circled)	P		Y	N (circled)	
S-2	Standpipe	Flush (circled)	G (circled)	P	Size (inch) 12	Y (circled)	N	G (circled)	R	G (circled)	R	NL	G (circled)	P		Y	N (circled)	
S-3	Standpipe	Flush (circled)	G (circled)	P	Size (inch) 12	Y (circled)	N	G (circled)	R	G (circled)	R	NL	G (circled)	P		Y	N (circled)	
H-1	Standpipe	Flush (circled)	G (circled)	P	Size (inch) [illegible] 33	Y (circled)	N	G (circled)	R	G (circled)	R	NL	G (circled)	P	Vault	Y	N (circled)	
	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 = Ø | | = TOTAL # OF LOCKS REPLACED

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

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.; Fenced Compound; Trailer	G	P	N/A (circled)	G	P	N/A (circled)	G	P	N/A (circled)	Y	N	N/A (circled)		Y	N (circled)	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm 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
4	Y	N (circled)	N/A (crossed out)	Y	N (circled)	N/A (crossed out)	G	P (circled)	N/A (crossed out)	Y (circled)	N (crossed out)	Y (circled)	N	N/A (crossed out)		Y	N (circled)	

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).

Devin Raynel / Blaine 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: 440-87122-1
Client Project/Site: 5755 Broadway, Oakland, CA

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Peter Schaefer

Heather Clark

Authorized for release by:
9/10/2014 11:59:27 AM

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

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Sample Summary

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

TestAmerica Job ID: 440-87122-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-87122-1	S-1	Ground Water	08/29/14 12:15	09/03/14 09:50
440-87122-2	S-2	Ground Water	08/29/14 12:30	09/03/14 09:50
440-87122-3	S-3	Ground Water	08/29/14 12:00	09/03/14 09:50

Case Narrative

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

TestAmerica Job ID: 440-87122-1

Job ID: 440-87122-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-87122-1

Comments
No additional comments.

Receipt
The samples were received on 9/3/2014 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: S-1

Date Collected: 08/29/14 12:15
Date Received: 09/03/14 09:50

Lab Sample ID: 440-87122-1
Matrix: Ground Water

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			09/05/14 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*09/05/14 04:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/05/14 04:30*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*09/05/14 04:30*	*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			09/05/14 04:30	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			09/05/14 04:30	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			09/05/14 04:30	1
Ethylbenzene	ND		0.50		ug/L			09/05/14 04:30	1
Methyl-t-Butyl Ether (MTBE)	**4.6**		0.50		ug/L			09/05/14 04:30	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			09/05/14 04:30	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			09/05/14 04:30	1
Toluene	ND		0.50		ug/L			09/05/14 04:30	1
Xylenes, Total	ND		1.0		ug/L			09/05/14 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/05/14 04:30*	*1*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*09/05/14 04:30*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*09/05/14 04:30*	*1*

Client Sample ID: S-2

Date Collected: 08/29/14 12:30
Date Received: 09/03/14 09:50

Lab Sample ID: 440-87122-2
Matrix: Ground Water

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)	**3900**		250		ug/L			09/06/14 05:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*123*		*76 - 132*		*09/06/14 05:10*	*5*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*09/06/14 05:10*	*5*
Toluene-d8 (Surr)	*115*		*80 - 128*		*09/06/14 05:10*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**250**		2.5		ug/L			09/06/14 05:10	5
Isopropyl Ether (DIPE)	ND		2.5		ug/L			09/06/14 05:10	5
Ethyl-t-butyl ether (ETBE)	ND		2.5		ug/L			09/06/14 05:10	5
Ethylbenzene	ND		2.5		ug/L			09/06/14 05:10	5
Methyl-t-Butyl Ether (MTBE)	**96**		2.5		ug/L			09/06/14 05:10	5
Tert-amyl-methyl ether (TAME)	ND		2.5		ug/L			09/06/14 05:10	5
tert-Butyl alcohol (TBA)	**520**		50		ug/L			09/06/14 05:10	5
Toluene	ND		2.5		ug/L			09/06/14 05:10	5
Xylenes, Total	ND		5.0		ug/L			09/06/14 05:10	5

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

TestAmerica Job ID: 440-87122-1

Client Sample ID: S-2

Lab Sample ID: 440-87122-2

Date Collected: 08/29/14 12:30

Matrix: Ground Water

Date Received: 09/03/14 09:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*09/06/14 05:10*	*5*
Dibromofluoromethane (Surr)	*123*		*76 - 132*		*09/06/14 05:10*	*5*
Toluene-d8 (Surr)	*115*		*80 - 128*		*09/06/14 05:10*	*5*

Client Sample ID: S-3

Lab Sample ID: 440-87122-3

Date Collected: 08/29/14 12:00

Matrix: Ground Water

Date Received: 09/03/14 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			09/06/14 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*76 - 132*		*09/06/14 04:39*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*09/06/14 04:39*	*1*
Toluene-d8 (Surr)	*114*		*80 - 128*		*09/06/14 04:39*	*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			09/06/14 04:39	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			09/06/14 04:39	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			09/06/14 04:39	1
Ethylbenzene	ND		0.50		ug/L			09/06/14 04:39	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			09/06/14 04:39	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			09/06/14 04:39	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			09/06/14 04:39	1
Toluene	ND		0.50		ug/L			09/06/14 04:39	1
Xylenes, Total	ND		1.0		ug/L			09/06/14 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*09/06/14 04:39*	*1*
Dibromofluoromethane (Surr)	*120*		*76 - 132*		*09/06/14 04:39*	*1*
Toluene-d8 (Surr)	*114*		*80 - 128*		*09/06/14 04:39*	*1*

Method Summary

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

TestAmerica Job ID: 440-87122-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	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: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-87122-1

Client Sample ID: S-1

Date Collected: 08/29/14 12:15
Date Received: 09/03/14 09:50

Lab Sample ID: 440-87122-1
Matrix: Ground 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	203887	09/05/14 04:30	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	203888	09/05/14 04:30	WC	TAL IRV

Client Sample ID: S-2

Date Collected: 08/29/14 12:30
Date Received: 09/03/14 09:50

Lab Sample ID: 440-87122-2
Matrix: Ground 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		5	10 mL	10 mL	204186	09/06/14 05:10	AT	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	10 mL	10 mL	204187	09/06/14 05:10	AT	TAL IRV

Client Sample ID: S-3

Date Collected: 08/29/14 12:00
Date Received: 09/03/14 09:50

Lab Sample ID: 440-87122-3
Matrix: Ground 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	204186	09/06/14 04:39	AT	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	204187	09/06/14 04:39	AT	TAL IRV

Laboratory References:

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

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

Lab Sample ID: MB 440-203887/4
Matrix: Water
Analysis Batch: 203887

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			09/04/14 19:56	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			09/04/14 19:56	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			09/04/14 19:56	1
Ethylbenzene	ND		0.50		ug/L			09/04/14 19:56	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			09/04/14 19:56	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			09/04/14 19:56	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			09/04/14 19:56	1
Toluene	ND		0.50		ug/L			09/04/14 19:56	1
Xylenes, Total	ND		1.0		ug/L			09/04/14 19:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*09/04/14 19:56*	*1*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*09/04/14 19:56*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*09/04/14 19:56*	*1*

Lab Sample ID: LCS 440-203887/5
Matrix: Water
Analysis Batch: 203887

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.3		ug/L		105	68 - 130
Isopropyl Ether (DIPE)	25.0	28.2		ug/L		113	58 - 139
Ethyl-t-butyl ether (ETBE)	25.0	22.3		ug/L		89	60 - 136
Ethylbenzene	25.0	24.8		ug/L		99	70 - 130
m,p-Xylene	50.0	49.3		ug/L		99	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	23.4		ug/L		94	63 - 131
o-Xylene	25.0	25.5		ug/L		102	70 - 130
Tert-amyl-methyl ether (TAME)	25.0	20.2		ug/L		81	57 - 139
tert-Butyl alcohol (TBA)	125	134		ug/L		108	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*115*		*76 - 132*
Toluene-d8 (Surr)	*113*		*80 - 128*

Lab Sample ID: 440-86924-A-2 MS
Matrix: Water
Analysis Batch: 203887

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
Benzene	4.2		25.0	30.9		ug/L		107	66 - 130
Isopropyl Ether (DIPE)	4.4		25.0	33.1		ug/L		115	64 - 138
Ethyl-t-butyl ether (ETBE)	ND		25.0	22.7		ug/L		91	70 - 130
Ethylbenzene	ND		25.0	26.0		ug/L		104	70 - 130
m,p-Xylene	ND		50.0	51.5		ug/L		103	70 - 133
Methyl-t-Butyl Ether (MTBE)	19		25.0	43.7		ug/L		99	70 - 130

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

Lab Sample ID: 440-86924-A-2 MS
Matrix: Water
Analysis Batch: 203887

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
o-Xylene	ND		25.0	27.3		ug/L		109	70 - 133
Tert-amyl-methyl ether (TAME)	ND		25.0	21.6		ug/L		87	68 - 133
tert-Butyl alcohol (TBA)	260		125	412		ug/L		125	70 - 130
Toluene	ND		25.0	26.5		ug/L		104	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
Toluene-d8 (Surr)	*112*		*80 - 128*

Lab Sample ID: 440-86924-A-2 MSD
Matrix: Water
Analysis Batch: 203887

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	4.2		25.0	30.3		ug/L		104	66 - 130	2	20
Isopropyl Ether (DIPE)	4.4		25.0	33.0		ug/L		114	64 - 138	0	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	23.8		ug/L		95	70 - 130	4	25
Ethylbenzene	ND		25.0	24.9		ug/L		100	70 - 130	4	20
m,p-Xylene	ND		50.0	49.2		ug/L		98	70 - 133	5	25
Methyl-t-Butyl Ether (MTBE)	19		25.0	43.9		ug/L		100	70 - 130	0	25
o-Xylene	ND		25.0	26.2		ug/L		105	70 - 133	4	20
Tert-amyl-methyl ether (TAME)	ND		25.0	22.2		ug/L		89	68 - 133	3	30
tert-Butyl alcohol (TBA)	260		125	395		ug/L		112	70 - 130	4	25
Toluene	ND		25.0	26.2		ug/L		103	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
Toluene-d8 (Surr)	*114*		*80 - 128*

Lab Sample ID: MB 440-204186/4
Matrix: Water
Analysis Batch: 204186

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			09/05/14 19:05	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			09/05/14 19:05	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			09/05/14 19:05	1
Ethylbenzene	ND		0.50		ug/L			09/05/14 19:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			09/05/14 19:05	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			09/05/14 19:05	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			09/05/14 19:05	1
Toluene	ND		0.50		ug/L			09/05/14 19:05	1
Xylenes, Total	ND		1.0		ug/L			09/05/14 19:05	1

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

Lab Sample ID: MB 440-204186/4
Matrix: Water
Analysis Batch: 204186

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120		09/05/14 19:05	1
Dibromofluoromethane (Surr)	112		76 - 132		09/05/14 19:05	1
Toluene-d8 (Surr)	111		80 - 128		09/05/14 19:05	1

Lab Sample ID: LCS 440-204186/5
Matrix: Water
Analysis Batch: 204186

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.3		ug/L		105	68 - 130
Isopropyl Ether (DIPE)	25.0	28.9		ug/L		115	58 - 139
Ethyl-t-butyl ether (ETBE)	25.0	27.0		ug/L		108	60 - 136
Ethylbenzene	25.0	24.6		ug/L		98	70 - 130
m,p-Xylene	50.0	48.7		ug/L		97	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	26.1		ug/L		104	63 - 131
o-Xylene	25.0	25.9		ug/L		104	70 - 130
Tert-amyl-methyl ether (TAME)	25.0	25.8		ug/L		103	57 - 139
tert-Butyl alcohol (TBA)	125	135		ug/L		108	70 - 130
Toluene	25.0	25.4		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		80 - 120
Dibromofluoromethane (Surr)	112		76 - 132
Toluene-d8 (Surr)	113		80 - 128

Lab Sample ID: 440-87375-A-1 MS
Matrix: Water
Analysis Batch: 204186

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
Benzene	ND		25.0	25.6		ug/L		103	66 - 130
Isopropyl Ether (DIPE)	ND		25.0	29.0		ug/L		116	64 - 138
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.5		ug/L		106	70 - 130
Ethylbenzene	ND		25.0	23.7		ug/L		95	70 - 130
m,p-Xylene	ND		50.0	46.8		ug/L		94	70 - 133
Methyl-t-Butyl Ether (MTBE)	5.4		25.0	30.7		ug/L		101	70 - 130
o-Xylene	ND		25.0	25.0		ug/L		100	70 - 133
Tert-amyl-methyl ether (TAME)	ND		25.0	25.8		ug/L		103	68 - 133
tert-Butyl alcohol (TBA)	ND		125	132		ug/L		106	70 - 130
Toluene	ND		25.0	24.8		ug/L		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	118		76 - 132
Toluene-d8 (Surr)	113		80 - 128

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

Lab Sample ID: 440-87375-A-1 MSD
Matrix: Water
Analysis Batch: 204186

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		25.0	26.8		ug/L		107	66 - 130	4	20
Isopropyl Ether (DIPE)	ND		25.0	30.4		ug/L		121	64 - 138	5	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	27.8		ug/L		111	70 - 130	5	25
Ethylbenzene	ND		25.0	23.9		ug/L		96	70 - 130	1	20
m,p-Xylene	ND		50.0	47.1		ug/L		94	70 - 133	1	25
Methyl-t-Butyl Ether (MTBE)	5.4		25.0	32.5		ug/L		108	70 - 130	5	25
o-Xylene	ND		25.0	25.1		ug/L		100	70 - 133	1	20
Tert-amyl-methyl ether (TAME)	ND		25.0	27.2		ug/L		109	68 - 133	5	30
tert-Butyl alcohol (TBA)	ND		125	137		ug/L		109	70 - 130	3	25
Toluene	ND		25.0	25.9		ug/L		103	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*116*		*76 - 132*
Toluene-d8 (Surr)	*113*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-203888/4
Matrix: Water
Analysis Batch: 203888

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		50		ug/L			09/04/14 19:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*09/04/14 19:56*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*09/04/14 19:56*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*09/04/14 19:56*	*1*

Lab Sample ID: LCS 440-203888/6
Matrix: Water
Analysis Batch: 203888

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	474		ug/L		95	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*
Toluene-d8 (Surr)	*113*		*80 - 128*

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

Lab Sample ID: 440-86924-A-2 MS
Matrix: Water
Analysis Batch: 203888

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)	170		1730	1660		ug/L		87	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*112*		*80 - 128*

Lab Sample ID: 440-86924-A-2 MSD
Matrix: Water
Analysis Batch: 203888

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)	170		1730	1630		ug/L		85	50 - 145	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*114*		*80 - 128*

Lab Sample ID: MB 440-204187/4
Matrix: Water
Analysis Batch: 204187

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		50		ug/L			09/05/14 19:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*09/05/14 19:05*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*09/05/14 19:05*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*09/05/14 19:05*	*1*

Lab Sample ID: LCS 440-204187/6
Matrix: Water
Analysis Batch: 204187

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	465		ug/L		93	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Toluene-d8 (Surr)	*114*		*80 - 128*

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

Lab Sample ID: 440-87375-A-1 MS
Matrix: Water
Analysis Batch: 204187

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		1730	1460		ug/L		84	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*118*		*76 - 132*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Toluene-d8 (Surr)	*113*		*80 - 128*

Lab Sample ID: 440-87375-A-1 MSD
Matrix: Water
Analysis Batch: 204187

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)	ND		1730	1510		ug/L		88	50 - 145	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*116*		*76 - 132*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*113*		*80 - 128*

GC/MS VOA

Analysis Batch: 203887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-86924-A-2 MS	Matrix Spike	Total/NA	Water	8260B	
440-86924-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-87122-1	S-1	Total/NA	Ground Water	8260B	
LCS 440-203887/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-203887/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 203888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-86924-A-2 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-86924-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
440-87122-1	S-1	Total/NA	Ground Water	8260B/CA_LUFT MS	
LCS 440-203888/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-203888/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 204186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-87122-2	S-2	Total/NA	Ground Water	8260B	
440-87122-3	S-3	Total/NA	Ground Water	8260B	
440-87375-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-87375-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-204186/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-204186/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 204187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-87122-2	S-2	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-87122-3	S-3	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-87375-A-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-87375-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-204187/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-204187/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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: 5755 Broadway, Oakland, CA

TestAmerica Job ID: 440-87122-1

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	06-30-15
Arizona	State Program	9	AZ0671	10-13-14 *
California	LA Cty Sanitation Districts	9	10256	01-31-15
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-15
Hawaii	State Program	9	N/A	01-29-15 *
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15
Northern Mariana Islands	State Program	9	MP0002	01-29-15
Oregon	NELAP	10	4005	01-29-15
USDA	Federal		P330-09-00080	06-06-15
USEPA UCMR	Federal	1	CA01531	01-31-15

* Certification renewal pending - certification considered valid.

WS.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
☐ CALSCIENCE (_____)
☐ PL Houston (_____)
☐ KENCO (_____)
☑ TEST AMERICA (IRVINE)
☐ OTHER (_____)

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

Print Bill To Contact Name: 240483 Peter Schaefer
INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 5 6
☐ CHECK IF NO INCIDENT # APPLIES
PO #:
SAP #: 1 3 5 6 9 9
DATE: 8/29/14
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS, Street and City: 5755 Broadway, Oakland	State: CA
GLOBAL ID NO: T0600101270			
ADDRESS: 1680 Rogers Avenue, San Jose, CA		EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville, CA	PHONE NO: 510-420-3335
E-MAIL: ShellEDF@CRAWorld.com; Shell-US-LabDataManagement@CRAworld.com	CONSULTANT PROJECT NO.: 240483-95-12.05		
PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King		SAMPLER NAME(S) (Print): D. Raymond	LAB USE ONLY
TELEPHONE: (310) 885-4455 x 108	FAX: (310) 637-5802	E-MAIL: lking@blainetech.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:
1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabedduplod.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder
Copy final report to Shell.Lab.Billing@craworld.com, ShellEDF@craworld.com, Shell-US-LabDataManagement@CRAworld.com, and pschaefer@CRAWorld.com
Email invoice to Shell.Lab.Billing@craworld.com

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

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID: PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE: HCL	HNO3	H2SO4	NONE	OTHER	NO OF CONT	TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	VOCs Full list (8260B)	Single Compound: _____ (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015B)	TEMPERATURE ON RECEIPT / Container PID Readings or Laboratory Notes
	WG 140825-M2	082914	DR	S-1	1215	WG	X					3	X					X							2.8/2.1 IR-68
	WG ↓	↓	DR	S-2	1230	WG	X					3	X					X							
	WG	↓	DR	S-3	1200	WG	X					3	X					X							

440-87122 Chain of Custody

	Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
1	Sample custodian	8/29/14	1325		8/29/14	1325
2	BTS	1995			8.29.14	1445
3	FED			0.9°C	8-29-14	19:00
	9/2/14 1500				9/3/14	9:50

Fed. 6018 5641 9155

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9/10/2014

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-87122-1

Login Number: 87122

List Source: TestAmerica Irvine

List Number: 1

Creator: Freitag, Kevin R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	