CONESTOGA-ROVERS & ASSOCIATES

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

TRANSMITTAL

DATE: March 15, 2013

REFERENCE NO.: 240594

PROJECT NAME: 610 Market Street, Oakland

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

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

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- ☒ Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Fourth Quarter 2012

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

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

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Roger Schmidt (adjacent property owner), 1224 Contra Costa Drive, El Cerrito, CA 94530
SF Data Room (electronic copy)

Completed by: Peter Schaefer Signed: Anthony Conel

Filing: **Correspondence File**

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

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

Re: Shell-branded Service Station
610 Market Street
Oakland, California
SAP Code 135692
Incident No. 98995750
ACEH Case No. RO0000493

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,

Denis L. Brown
Senior Program Manager

GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2012

SHELL-BRANDED SERVICE STATION
610 MARKET STREET
OAKLAND, CALIFORNIA

SAP CODE	135692
INCIDENT NO.	98995750
AGENCY NO.	RO0000493

Prepared by:
Conestoga-Rovers & Associates

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

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MARCH 15, 2013
REF. NO. 240594 (13)
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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	610 Market Street, 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.	RO0000493
Shell SAP Code	135692
Shell Incident No.	98995750

Date of most recent agency correspondence was February 4, 2013.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

CRA submitted an *Updated Site Conceptual Model and Closure Request* on November 14, 2012.

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 elevation 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	Not available
Hydraulic Gradient	Not available
Depth to Water	10.28 to 11.29 feet below top of well casing

2.3 PROPOSED ACTIVITIES

Alameda County Environmental Health's February 4, 2013 letter allowed suspension of groundwater monitoring during closure review. No further groundwater monitoring events are scheduled.

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

for:

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG

FIGURES

05/01/09

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

I:\Shell\6-chars\2405-\240594 - Oakland 610 Market\240594-FIGURES\240594 VICINITY.AI

Shell-branded Service Station

610 Market Street

Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

EXPLANATION

- **MW-1** — Monitoring well
- **MW-2** — Monitoring well formerly used for groundwater extraction
- **T1** — Tank observation well
- Electrical line (E)
- Telecommunication line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Manhole
- Flow direction
- FL = 2.8 — Flow line elevation, in feet above mean sea level (ft MSL)
- Groundwater extraction system piping
- **INF** — GWE system sampling location

Well
ELEV
Benzene
MTBE
TBA

- Well designation
- Groundwater elevation, in feet above msl
- Benzene, MTBE, TBA concentrations are in micrograms per liter

Notes:
ND = Not detected
NDa = Elevated reporting limit; see laboratory report for details

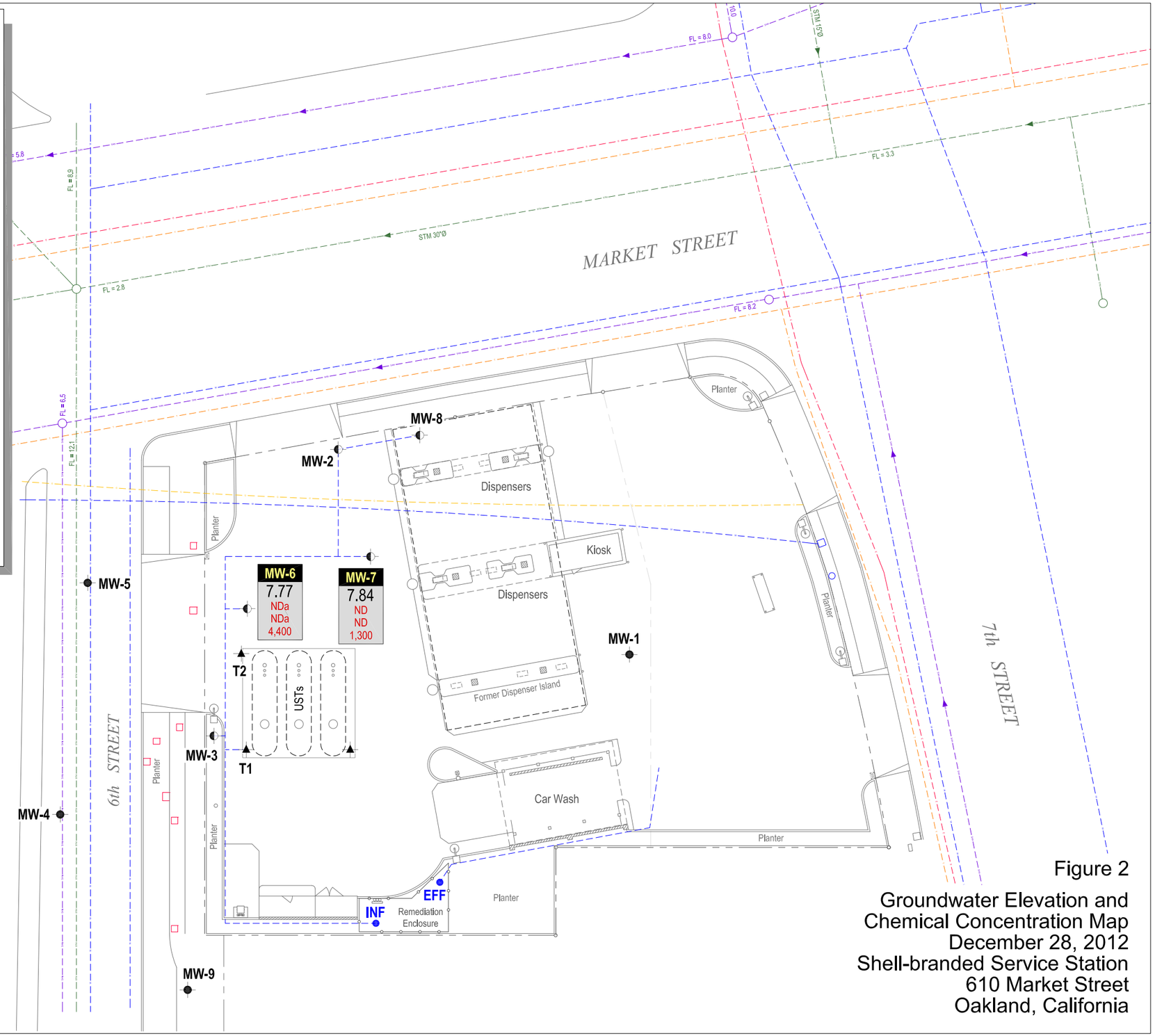


Figure 2

Groundwater Elevation and Chemical Concentration Map
December 28, 2012
Shell-branded Service Station
610 Market Street
Oakland, California

I:\Shell\6-chars\2405--\240594-Oakland 610 Market\240594-REPORTS\240594-RPT13-4Q12\240594 4QM12-GW.DWG (02/08/2013)

TABLE

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)
MW-1	12/17/1998	2,200	20	<10	110	420	<50	---	---	---	---	---	21.70	13.71	7.99
MW-1	03/09/1999	4,320	25.8	<10.0	338	474	<100	---	---	---	---	---	21.70	13.03	8.67
MW-1	06/16/1999	6,150	107	84.0	615	1,050	<250	---	---	---	---	---	21.70	13.82	7.88
MW-1	09/29/1999	3,440	97.3	58.7	433	578	89.1	---	---	---	---	---	21.70	14.45	7.25
MW-1	12/22/1999	1,370	34.5	4.38	196	49	29.3	---	---	---	---	---	21.70	15.39	6.31
MW-1	03/21/2000	2,550	10.3	3.36	164	312	65.6	---	---	---	---	---	21.70	11.94	9.76
MW-1	06/20/2000	4,770	64.3	18.6	387	732	51.3	---	---	---	---	---	21.70	13.15	8.55
MW-1	09/21/2000	7,490	350	229	690	1,490	160	---	---	---	---	---	21.70	13.65	8.05
MW-1	11/30/2000	5,410	420	168	494	1,170	167	---	---	---	---	---	21.70	14.20	7.50
MW-1	03/06/2001	965	25.7	9.14	13.3	9.12	<25.0	---	---	---	---	---	21.70	12.99	8.71
MW-1	06/28/2001	5,900	190	71	360	910	---	110	---	---	---	---	21.70	13.98	7.72
MW-1	09/12/2001	7,400	240	110	460	1,300	---	130	---	---	---	---	21.70	14.15	7.55
MW-1	12/12/2001	1,700	100	30	120	300	---	98	---	---	---	---	21.70	13.75	7.95
MW-1	03/08/2002	1,100	63	12	74	83	---	50	---	---	---	---	21.70	13.22	8.48
MW-1	06/06/2002	2,300	95	31	130	290	---	49	---	---	---	---	21.70	13.57	8.13
MW-1	09/09/2002	3,600	150	44	200	590	---	54	---	---	---	---	21.70	14.05	7.65
MW-1	12/12/2002	2,200	130	14	120	310	---	46	---	---	---	---	21.70	14.20	7.50
MW-1	02/26/2003	580	30	2.9	25	48	---	27	---	---	---	---	21.70	13.57	8.13
MW-1	04/15/2003	---	---	---	---	---	---	---	---	---	---	---	21.70	13.67	8.03
MW-1	06/13/2003	440	18	6.1	33	88	---	24	---	---	---	---	21.70	13.85	7.85
MW-1	09/26/2003	54	3.8	0.51	4.7	7.5	---	11	---	---	---	---	21.70	14.63	7.07
MW-1	11/24/2003	120	5.6	0.87	8.4	20	---	17	---	---	---	---	21.70	14.86	6.84
MW-1	03/01/2004	350	20	3.8	38	100	---	18	---	---	---	---	21.70	12.85	8.85
MW-1	06/15/2004	100	1.8	<0.50	2.6	6.1	---	15	---	---	---	---	21.70	14.27	7.43
MW-1	09/16/2004	200	20	0.75	7.8	16	---	27	<5.0	<2.0	<2.0	<2.0	21.70	14.60	7.10
MW-1	12/29/2004	67	1.8	<0.50	1.8	3.5	---	15	---	---	---	---	21.70	14.27	7.43
MW-1	02/28/2005	60	1.8	<0.50	1.9	3.6	---	22	---	---	---	---	21.70	12.45	9.25
MW-1	03/23/2005	---	---	---	---	---	---	---	---	---	---	---	21.70	12.50	9.20
MW-1	05/18/2005	92	5.3	<0.50	5.4	12	---	9.7	---	---	---	---	21.70	12.22	9.48

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)
MW-1	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	21.70	13.51	8.19
MW-1	09/15/2005	210	16	<0.50	4.3	19	---	19	320	<2.0	<2.0	<2.0	21.70	14.00	7.70
MW-1	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	21.70	14.30	7.40
MW-1	12/13/2005	<50.0	7.55	2.14	2.39	2.73	---	18.6	---	---	---	---	21.70	14.27	7.43
MW-1	03/08/2006	<50.0	1.95	<0.500	1.29	2.42	---	13.6	---	---	---	---	21.70	12.10	9.60
MW-1	06/27/2006	180	22	1.9	8.0	25	---	34	---	---	---	---	21.70	12.70	9.00
MW-1	09/25/2006	160	16	<0.50	2.1	11	---	23	<10	<1.0	<1.0	<1.0	21.70	14.07	7.63
MW-1	12/21/2006	120	3.2	<0.50	<0.50	<1.0	---	27	---	---	---	---	21.70	14.27	7.43
MW-1	03/20/2007	<50	1.8	<0.50	<0.50	<1.0	---	15	---	---	---	---	21.70	13.61	8.09
MW-1	06/18/2007	98	7.5	0.27 l	0.52 l	1.4	---	19	---	---	---	---	21.70	14.42	7.28
MW-1	08/30/2007	94 n	6.6	<1.0	<1.0	0.82 l	---	19	<10	<2.0	<2.0	<2.0	21.70	14.84	6.86
MW-1	12/28/2007	67 n	4.8	<1.0	<1.0	<1.0	---	23	---	---	---	---	21.70	15.01	6.69
MW-1	03/26/2008	<50	3.7	<1.0	<1.0	<1.0	---	12	---	---	---	---	21.70	14.16	7.54
MW-1	05/29/2008	310	20	1.3	13	39	---	22	---	---	---	---	21.70	14.76	6.94
MW-1	09/25/2008	66	3.8	<1.0	<1.0	<1.0	---	14	<10	<2.0	<2.0	<2.0	21.70	15.31	6.39
MW-1	12/16/2008	<50	2.6	<1.0	<1.0	<1.0	---	17	---	---	---	---	21.70	14.30	7.40
MW-1	02/26/2009	79	5.9	<1.0	<1.0	<1.0	---	20	---	---	---	---	21.70	14.51	7.19
MW-1	05/26/2009	160	15	<1.0	6.2	15	---	28	---	---	---	---	21.70	14.74	6.96
MW-1	09/02/2009	220	28	<1.0	<1.0	22	---	28	<10	<2.0	<2.0	<2.0	21.70	15.61	6.09
MW-1	03/10/2010	99	12	<1.0	<1.0	<1.0	---	27	---	---	---	---	21.70	13.85	7.85
MW-1	08/31/2010	170	23	<1.0	<1.0	18	---	20	13	<2.0	<2.0	<2.0	21.70	15.08	6.62
MW-1	03/08/2011	120	15	0.60	1.2	1.5	---	17	---	---	---	---	21.70	13.35	8.35
MW-1	09/19/2011	290	46	1.4	0.60	14	---	45	<10	<1.0	<1.0	1.8	21.70	14.71	6.99
MW-1	03/05/2012	150	22	0.61	<0.50	1.0	---	29	---	---	---	---	21.70	15.32	6.38
MW-1	09/14/2012	450	72	2.3	1.9	17	---	34	<10	<0.50	<0.50	1.3	21.70	15.15	6.55
MW-2	12/17/1998	<5,000	<50	<50	<50	<50	11,000	---	---	---	---	---	19.61	12.07	7.54
MW-2	03/09/1999	<250	5.20	<2.50	<2.50	<2.50	9,870	---	---	---	---	---	19.61	11.46	8.15
MW-2	06/16/1999	<50.0	0.569	<0.500	<0.500	<0.500	3,440	---	---	---	---	---	19.61	12.26	7.35

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)
MW-2	09/29/1999	58.6	2.51	0.978	<0.500	<0.500	3,930	---	---	---	---	---	19.61	12.51	7.10
MW-2	12/22/1999	<2,000	50.4	<20.0	<20.0	<20.0	15,000	---	---	---	---	---	19.61	13.40	6.21
MW-2	03/21/2000	<5,000	94.7	<50.0	<50.0	<50.0	13,900	---	---	---	---	---	19.61	10.36	9.25
MW-2	06/20/2000	101	5.95	<0.500	<0.500	0.552	7,670	---	---	---	---	---	19.61	11.12	8.49
MW-2	09/21/2000	<2,000	<20.0	<20.0	<20.0	<20.0	4,460	---	---	---	---	---	19.61	11.95	7.66
MW-2	11/30/2000	81.1	4.46	0.924	0.841	3.23	3,450	---	---	---	---	---	19.61	12.48	7.13
MW-2	03/06/2001	<500	183	<5.00	<5.00	<5.00	14,000	---	---	---	---	---	19.61	11.10	8.51
MW-2	06/28/2001	<1,000	<10	<10	<10	<10	---	4,200	---	---	---	---	19.61	12.40	7.21
MW-2	09/12/2001	<2,000	120	<20	<20	<20	---	17,000	---	---	---	---	19.61	12.45	7.16
MW-2	12/12/2001	<1,000	<10	<10	<10	<10	---	3,000	---	---	---	---	19.61	12.14	7.47
MW-2	03/08/2002	<250	<2.5	<2.5	<2.5	<2.5	---	1,100	---	---	---	---	19.61	11.68	7.93
MW-2	06/06/2002	<500	<5.0	<5.0	<5.0	<5.0	---	2,000	---	---	---	---	19.61	11.95	7.66
MW-2	09/09/2002	<200	<2.0	<2.0	<2.0	<2.0	---	740	---	---	---	---	19.62	12.38	7.24
MW-2	12/12/2002	<200	<2.0	<2.0	<2.0	<2.0	---	1,000	---	---	---	---	19.62	12.40	7.22
MW-2	02/26/2003	<500	<5.0	<5.0	<5.0	<5.0	---	1,600	---	---	---	---	19.62	12.69	6.93
MW-2	04/15/2003	---	---	---	---	---	---	---	---	---	---	---	19.62	12.81	6.81
MW-2	06/13/2003	<500	<5.0	<5.0	<5.0	<10	---	790	---	---	---	---	19.62	12.65	6.97
MW-2	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	---	250	---	---	---	---	18.20	12.95	5.25
MW-2	11/24/2003	<50	<0.50	<0.50	<0.50	<1.0	---	87	---	---	---	---	18.20	12.89	5.31
MW-2	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	---	35	---	---	---	---	18.20	10.08	8.12
MW-2	06/15/2004	66 b	<0.50	<0.50	<0.50	<1.0	---	110	---	---	---	---	18.20	12.85	5.35
MW-2	09/16/2004	<50	<0.50	<0.50	<0.50	<1.0	---	26	<5.0	<2.0	<2.0	<2.0	18.20	12.00	6.20
MW-2	12/29/2004	<50	<0.50	0.73	<0.50	<1.0	---	43	---	---	---	---	18.20	11.60	6.60
MW-2	02/28/2005	---	---	---	---	---	---	---	---	---	---	---	18.20	9.71	8.49
MW-2	03/23/2005	340 f	3.9	<2.0	<2.0	<4.0	---	370	---	---	---	---	18.20	10.10	8.10
MW-2	05/18/2005	<100	4.6	<1.0	<1.0	3.3	---	160	---	---	---	---	18.20	10.21	7.99
MW-2	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	18.20	10.53	7.67
MW-2	09/15/2005	<50	<0.50	<0.50	<0.50	<1.0	---	11	520	<2.0	<2.0	<2.0	18.20	11.98	6.22
MW-2	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	18.20	11.38	6.82

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)*
MW-2	12/13/2005	<50.0	<0.500	1.66	<0.500	<0.500	---	2.11	---	---	---	---	18.20	10.71	7.49
MW-2	03/08/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	---	---	---	---	18.20	9.50	8.70
MW-2	06/27/2006	<100 i	<1.0 i	<1.0 i	<1.0 i	<1.0 i	---	9.1 i	---	---	---	---	18.20	9.73	8.47
MW-2	09/25/2006	83 j	<2.5	<2.5	<2.5	<5.0	---	<5.0	4,500	<5.0	<5.0	<5.0	18.20	11.08	7.12
MW-2	12/21/2006	160	<0.50	<0.50	<0.50	<1.0	---	1.6	---	---	---	---	18.20	11.30	6.90
MW-2	03/20/2007	<50	0.98	<0.50	<0.50	<1.0	---	18	---	---	---	---	18.20	10.76	7.44
MW-2	06/18/2007	86 m	<0.50	<1.0	<1.0	<1.0	---	2.4	---	---	---	---	18.20	11.35	6.85
MW-2	08/30/2007	110 n	<0.50	<1.0	<1.0	<1.0	---	2.2	2,700	6.3	0.30 l	<2.0	18.20	11.80	6.40
MW-2	12/28/2007	<50 n	<2.5	<5.0	<5.0	<5.0	---	2.1 l	---	---	---	---	18.20	11.69	6.51
MW-2	03/26/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	18.20	11.23	6.97
MW-2	05/29/2008	130	<0.50	<1.0	<1.0	<1.0	---	3.0	---	---	---	---	18.20	11.83	6.37
MW-2	09/25/2008	380	<0.50	<1.0	<1.0	<1.0	---	3.7	4,200	7.9	<2.0	<2.0	18.20	13.21	4.99
MW-2	12/16/2008	220	<1.0	<2.0	<2.0	<2.0	---	2.1	---	---	---	---	18.20	12.40	5.80
MW-2	02/26/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.9	---	---	---	---	18.20	10.56	7.64
MW-2	05/26/2009	140	<0.50	<1.0	<1.0	<1.0	---	2.6	---	---	---	---	18.20	11.03	7.17
MW-2	09/02/2009	270	<0.50	<1.0	<1.0	<1.0	---	2.2	4,600	4.9	<2.0	<2.0	18.20	12.01	6.19
MW-2	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	---	37	---	---	---	---	18.20	9.96	8.24
MW-2	08/31/2010	110	<0.50	<1.0	<1.0	<1.0	---	6.2	3,300	2.8	<2.0	<2.0	18.20	11.30	6.90
MW-2	03/08/2011	<50	0.66	<0.50	<0.50	<1.0	---	28	---	---	---	---	18.20	9.86	8.34
MW-2	09/19/2011	<250	<5.0 o	<5.0 o	<5.0 o	<10 o	---	15 o	5,700 o	<10 o	<10 o	<10 o	18.20	11.22	6.98
MW-2	03/05/2012	100	<0.50	<0.50	<0.50	<1.0	---	1.2	---	---	---	---	18.20	11.65	6.55
MW-2	09/14/2012	<250	<2.5	<2.5	<2.5	<5.0	---	5.9	7,900	<2.5	<2.5	<2.5	18.20	10.90	7.30
MW-3	12/17/1998	30,000	890	110	2,100	4,300	42,000	43,000	---	---	---	---	19.05	11.65	7.40
MW-3	03/09/1999	22,700	536	<200	1,030	1,510	35,400	38,500	---	---	---	---	19.05	11.03	8.02
MW-3	06/16/1999	19,300	625	129	805	1,210	42,400	51,600	---	---	---	---	19.05	11.89	7.16
MW-3	09/29/1999	20,200	727	155	1,000	1,180	84,100	136,000 a	---	---	---	---	19.05	12.35	6.70
MW-3	12/22/1999	44,500	767	64.4	1,810	2,090	191,000	186,000 a	---	---	---	---	19.05	13.45	5.60
MW-3	03/21/2000	<25,000	466	<250	727	2,280	126,000	155,000	---	---	---	---	19.05	10.00	9.05

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)*
MW-3	06/20/2000	16,200	1,140	98.8	1,140	1,410	579,000	376,000 a	---	---	---	---	19.05	11.15	7.90
MW-3	09/21/2000	<50,000	712	<500	520	795	293,000	298,000	---	---	---	---	19.05	11.58	7.47
MW-3	11/30/2000	18,000	1,050	124	1,120	2,010	543,000 a	403,000 a	---	---	---	---	19.05	12.10	6.95
MW-3	03/06/2001	19,900	1,290	115	1,450	1,760	706,000	149,000	---	---	---	---	19.05	11.00	8.05
MW-3	06/28/2001	<50,000	1,200	<250	1,100	1,300	---	610,000	---	---	---	---	19.05	11.96	7.09
MW-3	09/12/2001	<20,000	430	<200	230	480	---	390,000	---	---	---	---	19.05	12.05	7.00
MW-3	10/23/2001	11,000	350	<100	210	440	---	290,000	---	---	---	---	19.05	12.62	6.43
MW-3	12/12/2001	<20,000	280	<200	<200	<200	---	160,000	---	---	---	---	19.05	11.83	7.22
MW-3	03/08/2002	<20,000	270	<200	<200	<200	---	340,000	---	---	---	---	19.05	11.26	7.79
MW-3	06/06/2002	<50,000	290	<250	<250	<250	---	290,000	---	---	---	---	19.05	11.50	7.55
MW-3	09/09/2002	<20,000	<200	<200	<200	<200	---	230,000	---	---	---	---	19.06	11.92	7.14
MW-3	12/12/2002	<50,000	<200	<200	<200	<500	---	190,000	---	---	---	---	19.06	10.95	8.11
MW-3	02/26/2003	<25,000	<250	<250	<250	<250	---	210,000	---	---	---	---	19.06	15.01	4.05
MW-3	04/15/2003	---	---	---	---	---	---	---	---	---	---	---	19.06	15.12	3.94
MW-3	06/13/2003	<25,000	<250	<250	<250	<500	---	27,000	---	---	---	---	19.06	15.25	3.81
MW-3	09/26/2003	<10,000	<100	<100	<100	<200	---	15,000	---	---	---	---	18.08	c	---
MW-3	11/24/2003	<10,000	<100	<100	<100	<200	---	9,900	---	---	---	---	18.08	15.13	2.95
MW-3	03/01/2004	<10,000	<100	<100	<100	<200	---	8,000	---	---	---	---	18.08	9.97	8.11
MW-3	06/15/2004	<10,000	<100	<100	<100	<200	---	6,900	---	---	---	---	18.08	15.05	3.03
MW-3	09/16/2004	<500	<5.0	<5.0	<5.0	<10	---	1,000	75	<20	<20	<20	18.08	14.70	3.38
MW-3	12/29/2004	<250	2.8	<2.5	<2.5	<5.0	---	580	---	---	---	---	18.08	14.83	3.25
MW-3	02/28/2005	---	---	---	---	---	---	---	---	---	---	---	18.08	9.60	8.48
MW-3	03/23/2005	<1,000	<10	<10	<10	<20	---	1500	---	---	---	---	18.08	12.68	5.40
MW-3	05/18/2005	1200	49	<10	47	<20	---	3400	---	---	---	---	18.08	10.60	7.48
MW-3	08/16/2005	---	---	---	---	---	---	330	---	---	---	---	18.08	15.22	2.86
MW-3	09/15/2005	<1,000	<10	<10	<10	<20	---	140	180	<40	<40	<40	18.08	15.30	2.78
MW-3	10/26/2005	---	---	---	---	---	---	48	---	---	---	---	18.08	15.00	3.08
MW-3	12/13/2005	482	4.56	1.64 h	<0.500	<0.500	---	72.5	273	---	---	---	18.08	11.18	6.90
MW-3	03/08/2006	627	2.62	<0.500	1.71	1.25	---	175	483	---	---	---	18.08	14.95	3.13

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)*
MW-3	06/27/2006	530	8.3	<2.5	9.5	3.5	---	100	---	---	---	---	18.08	14.63	3.45
MW-3	09/25/2006	520	12	<2.5	6.5	<5.0	---	110	2,900	<5.0	<5.0	<5.0	18.08	11.23	6.85
MW-3	12/21/2006	120	2.2	<0.50	<0.50	<1.0	---	1.7	120	---	---	---	18.08	11.22	6.86
MW-3	03/20/2007	150	0.96	1.2	<0.50	<1.0	---	19	300	---	---	---	18.08	11.35	6.73
MW-3	06/18/2007	180	2.2	<1.0	<1.0	<1.0	---	14	780	---	---	---	18.08	11.22	6.86
MW-3	08/30/2007	200 n	3.5	<1.0	<1.0	0.29 l	---	29	1,500	<2.0	<2.0	<2.0	18.08	13.59	4.49
MW-3	12/28/2007	140 n	2.7	0.34 l	<1.0	<1.0	---	<1.0	98	---	---	---	18.08	11.79	6.29
MW-3	03/26/2008	120	1.3	1.6	<1.0	<1.0	---	3.4	150	---	---	---	18.08	11.05	7.03
MW-3	05/29/2008	130	2.4	<1.0	<1.0	<1.0	---	6.0	250	---	---	---	18.08	11.69	6.39
MW-3	09/25/2008	410	9.3	<1.0	<1.0	<1.0	---	13	1,200	<2.0	<2.0	<2.0	18.08	12.00	6.08
MW-3	12/16/2008	410	14	<1.0	<1.0	<1.0	---	5.5	560	---	---	---	18.08	11.71	6.37
MW-3	02/26/2009	640	3.1	<1.0	<1.0	<1.0	---	1.3	10	---	---	---	18.08	10.71	7.37
MW-3	05/26/2009	250	1.8	<1.0	<1.0	<1.0	---	2.2	59	---	---	---	18.08	11.53	6.55
MW-3	09/02/2009	260	5.3	<1.0	<1.0	<1.0	---	7.0	350	<2.0	<2.0	<2.0	18.08	12.34	5.74
MW-3	03/10/2010	89	<0.50	<1.0	<1.0	1.0	---	<1.0	<10	---	---	---	18.08	10.29	7.79
MW-3	08/31/2010	81	1.1	<1.0	<1.0	<1.0	---	5.5	230	<2.0	<2.0	<2.0	18.08	11.80	6.28
MW-3	03/08/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	18.08	10.37	7.71
MW-3	09/19/2011	100	<0.50	<0.50	<0.50	<1.0	---	6.4	490	<1.0	<1.0	<1.0	18.08	11.51	6.57
MW-3	03/05/2012	64	<0.50	<0.50	<0.50	<1.0	---	1.6	340	---	---	---	18.08	12.12	5.96
MW-3	09/14/2012	110	<0.50	<0.50	<0.50	<1.0	---	2.4	370	<0.50	<0.50	<0.50	18.08	11.80	6.28
MW-4	05/13/2002	---	---	---	---	---	---	---	---	---	---	---	---	10.64	---
MW-4	05/20/2002	<1,000	<10	<10	<10	<10	---	4,600	---	---	---	---	---	10.64	---
MW-4	06/06/2002	<1,000	<10	<10	<10	<10	---	4,800	---	---	---	---	---	10.61	---
MW-4	09/09/2002	Unable to sample		---	---	---	---	---	---	---	---	---	18.03	11.07	6.96
MW-4	09/18/2002	<250	<2.5	<2.5	<2.5	<2.5	---	1,000	---	---	---	---	18.03	11.15	6.88
MW-4	12/12/2002	<100	<1.0	<1.0	<1.0	<1.0	---	370	---	---	---	---	18.03	11.13	6.90
MW-4	02/26/2003	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	18.03	10.61	7.42
MW-4	04/15/2003	---	---	---	---	---	---	---	---	---	---	---	18.03	10.73	7.30

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)
MW-4	06/13/2003	180 b	<0.50	110	<0.50	<1.0	---	2.3	---	---	---	---	18.03	10.88	7.15
MW-4	09/26/2003	<5,000	<50	<50	<50	<100	---	13,000	---	---	---	---	18.03	11.58	6.45
MW-4	11/24/2003	<13,000	<130	<130	<130	<250	---	11,000	---	---	---	---	18.03	11.78	6.25
MW-4	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	18.03	9.47	8.56
MW-4	06/15/2004	<500	<5.0	<5.0	<5.0	<10	---	630	---	---	---	---	18.03	11.38	6.65
MW-4	09/16/2004	<100	<1.0	12	<1.0	<2.0	---	280	280	<4.0	<4.0	<4.0	18.03	11.80	6.23
MW-4	12/29/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	18.03	10.63	7.40
MW-4	02/28/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	18.03	9.20	8.83
MW-4	03/23/2005	---	---	---	---	---	---	---	---	---	---	---	18.03	9.43	8.60
MW-4	05/18/2005	1,900	<5.0	<5.0	16	97	---	910	---	---	---	---	18.03	9.75	8.28
MW-4	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	18.03	10.85	7.18
MW-4	09/15/2005	<2,500	<25	<25	<25	85	---	5,100	400	<100	<100	<100	18.03	11.30	6.73
MW-4	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	18.03	11.45	6.58
MW-4	12/13/2005	3,480	<0.500	1.54 h	<0.500	<0.500	---	2,490 a	201	---	---	---	18.03	11.70	6.33
MW-4	03/08/2006	1,560	<0.500	0.910	<0.500	3.39	---	0.870	<10.0	---	---	---	18.03	9.25	8.78
MW-4	06/27/2006	75	<0.50	18	<0.50	<0.50	---	63	<20	---	---	---	18.03	10.12	7.91
MW-4	09/25/2006	670 j	<10	<10	<10	<20	---	1,400	430	<20	<20	<20	18.03	11.23	6.80
MW-4	12/21/2006	<50	<0.50	<0.50	<0.50	<1.0	---	2.0	6.8	---	---	---	18.03	10.37	7.66
MW-4	03/20/2007	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	18.03	9.84	8.19
MW-4	06/18/2007	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	7.1 l	---	---	---	18.03	10.62	7.41
MW-4	08/30/2007	<50 n	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	18.03	11.93	6.10
MW-4	12/28/2007	160 n,m	<0.50	130	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	11.97	6.06
MW-4	03/26/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	11.34	6.69
MW-4	05/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	3.4	<10	---	---	---	18.03	11.87	6.16
MW-4	09/25/2008	<50	<0.50	1.3	<1.0	<1.0	---	4.5	<10	<2.0	<2.0	<2.0	18.03	12.35	5.68
MW-4	12/16/2008	630	<0.50	360	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	12.47	5.56
MW-4	02/26/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	10.29	7.74
MW-4	05/26/2009	<50	<0.50	3.6	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	11.74	6.29
MW-4	09/02/2009	<50	<0.50	<1.0	<1.0	<1.0	---	5.9	<10	<2.0	<2.0	<2.0	18.03	12.60	5.43

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)*
MW-4	03/10/2010	<50	<0.50	1.6	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	9.95	8.08
MW-4	08/31/2010	400	<0.50	<1.0	<1.0	<1.0	---	1.1	30	<2.0	<2.0	<2.0	18.03	12.12	5.91
MW-4	03/08/2011	73 j	<0.50	44	<0.50	<1.0	---	<1.0	<10	---	---	---	18.03	10.66	7.37
MW-4	09/19/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	<1.0	<1.0	<1.0	18.03	11.71	6.32
MW-4	03/05/2012	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	---	---	---	18.03	12.50	5.53
MW-4	09/14/2012	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	18.03	12.05	5.98
MW-5	05/13/2002	---	---	---	---	---	---	---	---	---	---	---	---	10.40	---
MW-5	05/20/2002	<2,500	<25	<25	<25	<25	---	17,000	---	---	---	---	---	10.41	---
MW-5	06/06/2002	<5,000	<50	<50	<50	<50	---	15,000	---	---	---	---	---	10.36	---
MW-5	09/09/2002	Unable to sample		---	---	---	---	---	---	---	---	---	17.78	10.82	6.96
MW-5	09/18/2002	<2,500	<25	<25	<25	<25	---	16,000	---	---	---	---	17.78	10.81	6.97
MW-5	12/12/2002	<2,500	<25	<25	<25	<25	---	13,000	---	---	---	---	17.78	10.83	6.95
MW-5	02/26/2003	<2,000	<20	<20	<20	<20	---	7,500	---	---	---	---	17.78	10.57	7.21
MW-5	04/15/2003	---	---	---	---	---	---	---	---	---	---	---	17.78	10.69	7.09
MW-5	06/13/2003	<2,500	<25	<25	<25	<50	---	4,400	---	---	---	---	17.78	10.82	6.96
MW-5	09/26/2003	<2,500	<25	<25	<25	<50	---	4,700	---	---	---	---	17.78	11.49	6.29
MW-5	11/24/2003	<10,000	<100	<100	<100	<200	---	7,100	---	---	---	---	17.78	11.70	6.08
MW-5	03/01/2004	<2,000	<20	<20	<20	<40	---	2,800	---	---	---	---	17.78	9.68	8.10
MW-5	06/15/2004	<2,000	<20	<20	<20	<40	---	2,100	---	---	---	---	17.78	11.28	6.50
MW-5	09/16/2004	<2,000	<20	<20	<20	<40	---	2,200	2,800	<80	<80	<80	17.78	11.62	6.16
MW-5	12/29/2004	<2,000	<20	<20	<20	<40	---	3,700	---	---	---	---	17.78	11.11	6.67
MW-5	02/28/2005	<200	<2.0	<2.0	<2.0	<4.0	---	740	---	---	---	---	17.78	9.50	8.28
MW-5	03/23/2005	---	---	---	---	---	---	---	---	---	---	---	17.78	9.70	8.08
MW-5	05/18/2005	<50 g	<0.50	<0.50	<0.50	<1.0	---	180	---	---	---	---	17.78	9.49	8.29
MW-5	06/17/2005	---	---	---	---	---	---	270	---	---	---	---	17.78	9.89	7.89
MW-5	07/15/2005	---	---	---	---	---	---	350	---	---	---	---	17.78	10.20	7.58
MW-5	08/16/2005	---	---	---	---	---	---	270	---	---	---	---	17.78	10.50	7.28
MW-5	09/15/2005	<250	<2.5	<2.5	<2.5	<5.0	---	500	670	<10	<10	<10	17.78	10.96	6.82

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)
MW-5	10/26/2005	---	---	---	---	---	---	260	---	---	---	---	17.78	11.22	6.56
MW-5	12/13/2005	438	<0.500	1.49 h	<0.500	<0.500	---	167	452	---	---	---	17.78	11.05	6.73
MW-5	03/08/2006	330	<0.500	<0.500	<0.500	<0.500	---	169	206	---	---	---	17.78	9.30	8.48
MW-5	06/27/2006	<50	<0.50	<0.50	<0.50	<0.50	---	60	75	---	---	---	17.78	9.83	7.95
MW-5	09/25/2006	<50	<0.50	<0.50	<0.50	<1.0	---	22	<10	<1.0	<1.0	<1.0	17.78	10.96	6.82
MW-5	12/21/2006	<50	<0.50	<0.50	<0.50	<1.0	---	2.4	<5.0	---	---	---	17.78	11.00	6.78
MW-5	03/20/2007	<50	<0.50	<0.50	<0.50	<1.0	---	1.7	<10	---	---	---	17.78	10.51	7.27
MW-5	06/18/2007	<50	<0.50	<1.0	<1.0	<1.0	---	2.0	61	---	---	---	17.78	11.18	6.60
MW-5	08/30/2007	<50 n	<0.50	<1.0	<1.0	<1.0	---	2.3	170	<2.0	<2.0	<2.0	17.78	11.65	6.13
MW-5	12/28/2007	<50 n	<0.50	<1.0	<1.0	<1.0	---	3.0	830	---	---	---	17.78	11.90	5.88
MW-5	03/26/2008	<50	<0.50	<1.0	<1.0	<1.0	---	1.7	55	---	---	---	17.78	11.11	6.67
MW-5	05/29/2008	65	<0.50	<1.0	<1.0	<1.0	---	3.9	940	---	---	---	17.78	11.52	6.26
MW-5	09/25/2008	64	<0.50	<1.0	<1.0	<1.0	---	3.3	560	<2.0	<2.0	<2.0	17.78	12.00	5.78
MW-5	12/16/2008	63	<0.50	<1.0	<1.0	<1.0	---	3.3	850	---	---	---	17.78	12.30	5.48
MW-5	02/26/2009	<50	<0.50	<1.0	<1.0	<1.0	---	2.1	850	---	---	---	17.78	11.08	6.70
MW-5	05/26/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.2	19	---	---	---	17.78	11.43	6.35
MW-5	09/02/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.6	180	<2.0	<2.0	<2.0	17.78	12.24	5.54
MW-5	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.3	170	---	---	---	17.78	10.59	7.19
MW-5	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.8	490	<2.0	<2.0	<2.0	17.78	11.75	6.03
MW-5	03/08/2011	<50	<0.50	<0.50	<0.50	<1.0	---	1.0	270	---	---	---	17.78	10.44	7.34
MW-5	09/19/2011	<50	<0.50	<0.50	<0.50	<1.0	---	1.2	240	<1.0	<1.0	<1.0	17.78	11.50	6.28
MW-5	03/05/2012	<50	<0.50	<0.50	<0.50	<1.0	---	0.68	120	---	---	---	17.78	12.09	5.69
MW-5	09/14/2012	<50	<0.50	<0.50	<0.50	<1.0	---	0.57	36	<0.50	<0.50	<0.50	17.78	11.90	5.88
MW-6	03/28/2003	Well inaccessible		---	---	---	---	---	---	---	---	---	18.10	---	---
MW-6	04/07/2003	---	---	---	---	---	---	---	---	---	---	---	18.10	13.80	4.30
MW-6	04/15/2003	14,000	<250	<250	<250	<500	---	41,000	---	---	---	---	18.10	15.05	3.05
MW-6	06/13/2003	<10,000	<100	<100	<100	<200	---	27,000	---	---	---	---	18.10	14.42	3.68
MW-6	09/26/2003	<5,000	<50	<50	<50	<100	---	11,000	---	---	---	---	18.05	c	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)*
MW-6	11/24/2003	<10,000	<100	<100	<100	<200	---	5,000	---	---	---	---	18.05	14.68	3.37
MW-6	03/01/2004	<1,000	<10	<10	<10	<20	---	2,500	---	---	---	---	18.05	9.84	8.21
MW-6	06/15/2004	<1,000	<10	<10	<10	<20	---	2,800	---	---	---	---	18.05	14.82	3.23
MW-6	09/16/2004	<1,000	<10	<10	<10	<20	---	830	610	<40	<40	<40	18.05	14.20	3.85
MW-6	12/29/2004	<200	<2.0	<2.0	<2.0	<4.0	---	530	---	---	---	---	18.05	14.78	3.27
MW-6	02/28/2005	---	---	---	---	---	---	---	---	---	---	---	18.05	9.58	8.47
MW-6	03/23/2005	290 f	<2.0	<2.0	<2.0	<4.0	---	590	---	---	---	---	18.05	14.22	3.83
MW-6	05/18/2005	390	8.7	<0.50	0.93	9.0	---	68	---	---	---	---	18.05	9.79	8.26
MW-6	08/16/2005	---	---	---	---	---	---	34	---	---	---	---	18.05	10.64	7.41
MW-6	09/15/2005	<500	<5.0	<5.0	<5.0	<10	---	45	21,000 e	<20	<20	<20	18.05	11.83	6.22
MW-6	10/26/2005	---	---	---	---	---	---	31	---	---	---	---	18.05	11.31	6.74
MW-6	12/13/2005	982	<0.500	1.36 h	<0.500	<0.500	---	35.1	11,300 e	---	---	---	18.05	11.22	6.83
MW-6	03/08/2006	2,110	<0.500	<0.500	<0.500	<0.500	---	29.6	21,800	---	---	---	18.05	9.50	8.55
MW-6	06/27/2006	510	<0.50	<0.50	<0.50	<0.50	---	94	<20	---	---	---	18.05	9.84	8.21
MW-6	09/25/2006	730 j	<25	<25	<25	<50	---	<50	16,000	<50	<50	<50	18.05	11.08	6.97
MW-6	12/21/2006	890	<0.50	<0.50	<0.50	<1.0	---	30	33,000	---	---	---	18.05	11.12	6.93
MW-6	03/20/2007	<1,200 k	<12	<12	<12	<25	---	30	33,000	---	---	---	18.05	10.66	7.39
MW-6	06/18/2007	400	<0.50	<1.0	<1.0	<1.0	---	34	82,000	---	---	---	18.05	11.30	6.75
MW-6	08/30/2007	650 n	<50	<100	<100	<100	---	38 1	32,000	<200	<200	<200	18.05	11.81	6.24
MW-6	12/28/2007	170 n	<25	<50	<50	<50	---	28 1	36,000	---	---	---	18.05	11.97	6.08
MW-6	03/26/2008	1,300	<5.0	<10	<10	<10	---	26	36,000	---	---	---	18.05	10.83	7.22
MW-6	05/29/2008	2,500	<25	<50	<50	<50	---	<50	41,000	---	---	---	18.05	11.80	6.25
MW-6	09/25/2008	4,100	<25	<50	<50	<50	---	<50	44,000	<100	<100	<100	18.05	12.23	5.82
MW-6	12/16/2008	1,900	<10	<20	<20	<20	---	<20	28,000	---	---	---	18.05	12.40	5.65
MW-6	02/26/2009	1,500	<10	<20	<20	<20	---	<20	27,000	---	---	---	18.05	11.05	7.00
MW-6	05/26/2009	1,500	<10	<20	<20	<20	---	<20	29,000	---	---	---	18.05	11.52	6.53
MW-6	09/02/2009	1,800	<10	<20	<20	<20	---	<20	35,000	<40	<40	<40	18.05	12.25	5.80
MW-6	03/10/2010	<1,000	<10	<20	<20	<20	---	<20	25,000	---	---	---	18.05	10.94	7.11
MW-6	08/31/2010	610	<5.0	<10	<10	<10	---	15	20,000	<20	<20	<20	18.05	11.90	6.15

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)*
MW-6	12/21/2010	<1,000	<10	<20	<20	<20	---	<20	19,000	---	---	---	18.05	11.01	7.04
MW-6	03/08/2011	<1,200	<12	<12	<12	<25	---	<25	8,200	---	---	---	18.05	10.59	7.46
MW-6	06/01/2011	<500	<5.0	<5.0	<5.0	<10	---	<10	11,000	---	---	---	18.05	10.65	7.40
MW-6	09/19/2011	1,000 j	<10	<10	<10	<20	---	<20	16,000	<20	<20	<20	18.05	11.56	6.49
MW-6	12/02/2011	150	<0.500	<0.500	<0.500	<0.500	---	6.91	4,170	---	---	---	18.05	11.95	6.10
MW-6	03/05/2012	<1,000	<10	<10	<10	<20	---	<10	9,600	---	---	---	18.05	12.02	6.03
MW-6	06/12/2012	<250	<2.5	<2.5	<2.5	<5.0	---	3.5	5,000	---	---	---	18.05	11.16	6.89
MW-6	09/14/2012	<500	<5.0	<5.0	<5.0	<10	---	<5.0	8,200	<5.0	<5.0	<5.0	18.05	12.02	6.03
MW-6	**12/28/2012**	**<1,300**	**<13**	**<13**	**<13**	**<25**	**---**	**<13**	**4,400**	**---**	**---**	**---**	**18.05**	**10.28**	7.77
MW-7	03/28/2003	Well inaccessible		---	---	---	---	---	---	---	---	---	19.16	---	---
MW-7	04/07/2003	---	---	---	---	---	---	---	---	---	---	---	19.16	13.85	5.31
MW-7	04/15/2003	6,000	<100	<100	<100	<200	---	19,000	---	---	---	---	19.16	13.95	5.21
MW-7	06/13/2003	<5,000	<50	<50	<50	<100	---	5,700	---	---	---	---	19.16	13.92	5.24
MW-7	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	---	110	---	---	---	---	19.13	13.85	5.28
MW-7	11/24/2003	<50	<0.50	0.59	<0.50	1.7	---	7.6	---	---	---	---	19.13	13.99	5.14
MW-7	03/01/2004	67 b	<0.50	<0.50	<0.50	<1.0	---	120	---	---	---	---	19.13	10.85	8.28
MW-7	06/15/2004	120 b	<0.50	<0.50	<0.50	<1.0	---	89	---	---	---	---	19.13	13.27	5.86
MW-7	09/16/2004	<500	<5.0	<5.0	<5.0	<10	---	130	4,700	<20	<20	<20	19.13	12.83	6.30
MW-7	12/29/2004	<500	<5.0	<5.0	<5.0	<10	---	130	---	---	---	---	19.13	11.82	7.31
MW-7	02/28/2005	---	---	---	---	---	---	---	---	---	---	---	19.13	10.59	8.54
MW-7	03/23/2005	<1,000	<10	<10	<10	<20	---	16	---	---	---	---	19.13	11.16	7.97
MW-7	05/18/2005	67 g	<0.50	<0.50	<0.50	<1.0	---	12	---	---	---	---	19.13	10.42	8.71
MW-7	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	19.13	11.52	7.61
MW-7	09/15/2005	<500	<5.0	<5.0	<5.0	<10	---	75	16,000	<20	<20	<20	19.13	11.95	7.18
MW-7	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	19.13	12.23	6.90
MW-7	12/13/2005	1,210	<0.500	<0.500	<0.500	<0.500	---	19.1	14,600 e	---	---	---	19.13	12.15	6.98
MW-7	03/08/2006	989	<0.500	<0.500	<0.500	<0.500	---	7.29	14,000	---	---	---	19.13	10.70	8.43
MW-7	06/27/2006	370	<0.50	<0.50	<0.50	<0.50	---	16	20,000 a	---	---	---	19.13	10.77	8.36

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)*
MW-7	09/25/2006	840 j	<10	<10	<10	<20	---	<20	22,000	<20	<20	<20	19.13	12.04	7.09
MW-7	12/21/2006	740	<0.50	<0.50	<0.50	<1.0	---	7.5	27,000	---	---	---	19.13	12.18	6.95
MW-7	03/20/2007	460 j	<50	<50	<50	<100	---	<100	24,000	---	---	---	19.13	11.67	7.46
MW-7	06/18/2007	310 m	<5.0	<10	<10	<10	---	2.7 l	32,000	---	---	---	19.13	12.31	6.82
MW-7	08/30/2007	560 n	<25	<50	<50	<50	---	<50	28,000	<100	<100	<100	19.13	12.76	6.37
MW-7	12/28/2007	74 n	<25	<50	<50	<50	---	<50	26,000	---	---	---	19.13	12.85	6.28
MW-7	03/26/2008	1,400	<5.0	<10	<10	<10	---	<10	32,000	---	---	---	19.13	12.04	7.09
MW-7	05/29/2008	3,000	<25	<50	<50	<50	---	<50	44,000	---	---	---	19.13	12.80	6.33
MW-7	09/25/2008	3,600	<25	<50	<50	<50	---	<50	36,000	<100	<100	<100	19.13	13.14	5.99
MW-7	12/16/2008	1,700	<10	<20	<20	<20	---	<20	29,000	---	---	---	19.13	13.34	5.79
MW-7	02/26/2009	1,300	<10	<20	<20	<20	---	<20	19,000	---	---	---	19.13	12.16	6.97
MW-7	05/26/2009	1,600	<10	<20	<20	<20	---	<20	32,000	---	---	---	19.13	12.56	6.57
MW-7	09/02/2009	1,800	<10	<20	<20	<20	---	<20	33,000	<40	<40	<40	19.13	13.44	5.69
MW-7	03/10/2010	<1,000	<10	<20	<20	<20	---	<20	25,000	---	---	---	19.13	11.62	7.51
MW-7	08/31/2010	<1,000	<10	<20	<20	<20	---	<20	27,000	<40	<40	<40	19.13	12.90	6.23
MW-7	12/21/2010	<2,500	<25	<50	<50	<50	---	<50	22,000	---	---	---	19.13	12.11	7.02
MW-7	03/08/2011	<2,000	<20	<20	<20	<40	---	<40	9,600	---	---	---	19.13	11.51	7.62
MW-7	06/01/2011	620	<20	<20	<20	<40	---	<40	35,000	---	---	---	19.13	11.56	7.57
MW-7	09/19/2011	2,700	<25	<25	<25	<50	---	<50	48,000	<50	<50	<50	19.13	12.58	6.55
MW-7	12/02/2011	370	<0.500	<0.500	<0.500	<0.500	---	4.21	14,300	---	---	---	19.13	12.90	6.23
MW-7	03/05/2012	<2,500	<25	<25	<25	<50	---	<25	42,000	---	---	---	19.13	13.22	5.91
MW-7	06/12/2012	<2,500	<25	<25	<25	<50	---	<25	39,000	---	---	---	19.13	12.06	7.07
MW-7	09/14/2012	<5,000	<50	<50	<50	<100	---	<50	54,000	<50	<50	<50	19.13	12.86	6.27
MW-7	**12/28/2012**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<0.50**	**1,300**	**---**	**---**	**---**	**19.13**	**11.29**	**7.84**
MW-8	03/28/2003	Well inaccessible		---	---	---	---	---	---	---	---	---	18.72	---	---
MW-8	04/07/2003	---	---	---	---	---	---	---	---	---	---	---	18.72	14.13	4.59
MW-8	04/15/2003	890	29	22	15	71	---	430	---	---	---	---	18.72	14.10	4.62
MW-8	06/13/2003	---	---	---	---	---	---	---	---	---	---	---	18.72	13.94	4.78

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)
MW-8	09/26/2003	<250	55	51	33	140	---	330	---	---	---	---	18.71	14.21	4.50
MW-8	11/24/2003	<5,000	<50	<50	<50	<100	---	5,600	---	---	---	---	18.71	14.16	4.55
MW-8	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	---	12	---	---	---	---	18.71	10.34	8.37
MW-8	06/15/2004	2,800	170	240	140	560	---	440	---	---	---	---	18.71	13.88	4.83
MW-8	09/16/2004	2,500	180	200	120	490	---	480	260	<10	<10	<10	18.71	13.92	4.79
MW-8	12/29/2004	4,400	360	600	280	1,400	---	690	---	---	---	---	18.71	13.44	5.27
MW-8	02/28/2005	---	---	---	---	---	---	---	---	---	---	---	18.71	10.15	8.56
MW-8	03/23/2005	2,800	120	190	110	420	---	300	---	---	---	---	18.71	13.79	4.92
MW-8	05/18/2005	250	34	3.4	6.6	27	---	110	---	---	---	---	18.71	10.85	7.86
MW-8	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	18.71	10.95	7.76
MW-8	09/15/2005	460 f	54	21	24	92	---	250	130	<4.0	<4.0	<4.0	18.71	11.38	7.33
MW-8	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	18.71	11.75	6.96
MW-8	12/13/2005	1,180	49.6	4.89 h	15.2	76.0	---	320 a	1,870	---	---	---	18.71	11.80	6.91
MW-8	03/08/2006	1,040	48.0	1.82	5.07	19.9	---	271	190	---	---	---	18.71	10.50	8.21
MW-8	06/27/2006	730	80	<2.5	8.6	28	---	360	500 a	---	---	---	18.71	10.00	8.71
MW-8	09/25/2006	830	120	4.1	3.0	15	---	260	420	3.7	<2.5	<2.5	18.71	11.42	7.29
MW-8	12/21/2006	1,200	140	3.8	2.3	12	---	190	1,100	---	---	---	18.71	12.08	6.63
MW-8	03/20/2007	660	100	2.3	1.3	2.9	---	280	660	---	---	---	18.71	11.56	7.15
MW-8	06/18/2007	1,200	270	4.9	2.0	6.21	---	230	1,300	---	---	---	18.71	11.72	6.99
MW-8	08/30/2007	1,100 n	160	3.8	2.3	7.64 l	---	150	840	5.2	<2.0	<2.0	18.71	12.22	6.49
MW-8	12/28/2007	610 n	89	1.8	0.58 l	2.33 l	---	140	820	---	---	---	18.71	12.26	6.45
MW-8	03/26/2008	240	19	<1.0	<1.0	<1.0	---	58	390	---	---	---	18.71	11.45	7.26
MW-8	05/29/2008	290	25	<1.0	<1.0	<1.0	---	99	800	---	---	---	18.71	12.13	6.58
MW-8	09/25/2008	500	32	<1.0	<1.0	1.3	---	63	930	2.5	<2.0	<2.0	18.71	15.31	3.40
MW-8	12/16/2008	550	71	1.4	<1.0	1.8	---	46	1,400	---	---	---	18.71	12.92	5.79
MW-8	02/26/2009	120	0.97	<1.0	<1.0	<1.0	---	4.9	62	---	---	---	18.71	11.50	7.21
MW-8	05/26/2009	200	18	<1.0	<1.0	<1.0	---	39	710	---	---	---	18.71	11.91	6.80
MW-8	09/02/2009	480	55	1.6	<1.0	3.4	---	48	1,200	2.6	<2.0	<2.0	18.71	12.90	5.81
MW-8	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.6	14	---	---	---	18.71	11.02	7.69

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)
MW-8	08/31/2010	650	110	11	6.5	25	---	48	1,200	2.2	<2.0	<2.0	18.71	12.20	6.51
MW-8	03/08/2011	97	<0.50	<0.50	<0.50	<1.0	---	3.7	23	---	---	---	18.71	10.80	7.91
MW-8	09/19/2011	1,200	370 o	13 o	3.3 o	30 o	---	53 o	2,500 o	<5.0 o	<5.0 o	<5.0 o	18.71	11.94	6.77
MW-8	03/05/2012	700	160	<2.5	<2.5	<5.0	---	23	2,800	---	---	---	18.71	12.62	6.09
MW-8	09/14/2012	1,200	300	13	17	19	---	42	3,600	<2.5	<2.5	<2.5	18.71	12.70	6.01
MW-9	03/28/2003	---	---	---	---	---	---	---	---	---	---	---	18.78	11.19	7.59
MW-9	04/15/2003	420	<2.5	<2.5	<2.5	6.3	---	37	---	---	---	---	18.78	11.24	7.54
MW-9	06/13/2003	290 b	<0.50	<0.50	<0.50	2.6	---	34	---	---	---	---	18.78	11.39	7.39
MW-9	09/26/2003	540 b	<0.50	<0.50	<0.50	9.2	---	21	---	---	---	---	18.78	12.12	6.66
MW-9	11/24/2003	650 d	<0.50	<0.50	<0.50	6.3	---	14	---	---	---	---	18.78	12.30	6.48
MW-9	03/01/2004	230 d	<0.50	<0.50	<0.50	1.7	---	7.7	---	---	---	---	18.78	10.45	8.33
MW-9	06/15/2004	280	<0.50	<0.50	<0.50	1.9	---	8.3	---	---	---	---	18.78	11.88	6.90
MW-9	09/16/2004	260	<0.50	<0.50	<0.50	1.5	---	3.9	<5.0	<2.0	<2.0	<2.0	18.78	12.26	6.52
MW-9	12/29/2004	220	<0.50	<0.50	<0.50	1.2	---	3.5	---	---	---	---	18.78	11.76	7.02
MW-9	02/28/2005	140 g	<0.50	<0.50	<0.50	<1.0	---	1.5	---	---	---	---	18.78	10.21	8.57
MW-9	03/23/2005	---	---	---	---	---	---	---	---	---	---	---	18.78	10.14	8.64
MW-9	05/18/2005	210 g	<0.50	<0.50	<0.50	<1.0	---	2.8	---	---	---	---	18.78	10.21	8.57
MW-9	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	18.78	11.25	7.53
MW-9	09/15/2005	230 g	<0.50	<0.50	<0.50	1.1	---	2.6	<5.0	<2.0	<2.0	<2.0	18.78	11.75	7.03
MW-9	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	18.78	11.97	6.81
MW-9	12/13/2005	504	<0.500	<0.500	<0.500	2.53	---	2.88	---	---	---	---	18.78	11.92	6.86
MW-9	03/08/2006	205	<0.500	<0.500	<0.500	<0.500	---	1.45	---	---	---	---	18.78	10.05	8.73
MW-9	06/27/2006	260	<0.50	<0.50	<0.50	<0.50	---	1.9	---	---	---	---	18.78	10.64	8.14
MW-9	09/25/2006	160	<0.50	<0.50	<0.50	<1.0	---	1.6	<10	<1.0	<1.0	<1.0	18.78	11.78	7.00
MW-9	12/21/2006	300	<0.50	<0.50	<0.50	<1.0	---	1.4	---	---	---	---	18.78	11.86	6.92
MW-9	03/20/2007	150 j	<0.50	<0.50	<0.50	<1.0	---	1.2	---	---	---	---	18.78	11.34	7.44
MW-9	06/18/2007	81	0.18 l	<1.0	<1.0	0.27 l	---	1.2	---	---	---	---	18.78	12.01	6.77
MW-9	08/30/2007	52 n	<0.50	<1.0	<1.0	0.31 l	---	1.6	<10	<2.0	<2.0	<2.0	18.78	12.49	6.29

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)*
MW-9	12/28/2007	61 n	<0.50	<1.0	<1.0	0.27 l	---	1.9	---	---	---	---	18.78	12.84	5.94
MW-9	03/26/2008	89	<0.50	<1.0	<1.0	<1.0	---	1.6	---	---	---	---	18.78	12.30	6.48
MW-9	05/29/2008	130	<0.50	<1.0	<1.0	<1.0	---	7.4	---	---	---	---	18.78	12.61	6.17
MW-9	09/25/2008	63	<0.50	<1.0	<1.0	<1.0	---	17	<10	<2.0	<2.0	<2.0	18.78	12.92	5.86
MW-9	12/16/2008	74	<0.50	<1.0	<1.0	<1.0	---	13	---	---	---	---	18.78	13.03	5.75
MW-9	02/26/2009	81	<0.50	<1.0	<1.0	<1.0	---	14	---	---	---	---	18.78	11.94	6.84
MW-9	05/26/2009	140	<0.50	<1.0	<1.0	<1.0	---	5.8	---	---	---	---	18.78	12.47	6.31
MW-9	09/02/2009	54	<0.50	<1.0	<1.0	<1.0	---	16	<10	<2.0	<2.0	<2.0	18.42	13.00	5.42
MW-9	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.4	---	---	---	---	18.42	11.05	7.37
MW-9	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	---	12	<10	<2.0	<2.0	<2.0	18.42	12.35	6.07

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8015 unless
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8020.
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
GW = Groundwater
µg/L = Micrograms per liter
ft = Feet
MSL = Mean sea level
<x = Not detected at reporting limit x
--- = Not analyzed or not available

a = Sample was analyzed outside the EPA recommended holding time.
b = Hydrocarbon reported does not match the laboratory standard.

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, 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)*

c = Unable to gauge
d = Sample contains discrete peaks in addition to gasoline.
e = Estimated value. The concentration exceeded the calibration of analysis.
f = Quantity of unknown hydrocarbon(s) in sample based on gasoline.
g = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.
h = Analyte was detected in the associated Method Blank.
i = Sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
j = Hydrocarbon result partly due to individual peak(s) in quantitation range.
k = Reporting limit raised due to high concentrations of non-target analytes.
l = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
m = Sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
n = Analyzed by the EPA method 8015B(M)
o = Sample container contained headspace

Wells MW-1, MW-2, and MW-3 surveyed December 9, 1998 by Virgil Chavez Land Surveying
Wells MW-6 through MW-9 surveyed April 10, 2003 by Virgil Chavez Land Surveying
Wells MW-2, MW-3, MW-6, MW-7, and MW-8 surveyed September 23, 2003 by Virgil Chavez Land Surveying
Well MW-9 surveyed October 20, 2009 by Virgil Chavez Land Surveying

APPENDIX A

BLAINE TECH SERVICES, INC. – FIELD NOTES

WELL GAUGING DATA

Project # 121228-PC2 Date 12/28/12 Client Shell

Site 610 Market st., Oakland

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
MW-6	1425	4					10.25	18.55		
MW-7	1430	4					11.29	18.30	↓	

SHELL WELL MONITORING DATA SHEET

BTS #: 121228-PLC	Site: 98995750
Sampler: PC	Date: 12/28/12
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 18.55	Depth to Water (DTW): 10.28
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]: 11.93	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other ____

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: ____

5.4 (Gals.) X 3 = 16.2 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
1440	65.9	7.36	734.7	186	5.4	
1442	68.4	6.82	757.0	219	10.8	
1443	Well dewatered					
1525	64.1	6.74	861.5	417	-	

Did well dewater? (Yes) No Gallons actually evacuated: 11.5

Sampling Date: 12/28/12 Sampling Time: 1525 Depth to Water: 11.90

Sample I.D.: MW-6 Laboratory: (Test America) Other ____

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

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 #: 121278RQ	Site: 98995750
Sampler: RC	Date: 12/28/12
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 18.30	Depth to Water (DTW): 11.29
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]: 12.69	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / (X) Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

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

4.6 (Gals.) X	3	= 13.8 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	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1450	64.3	7.09	546.7	239	4.6	
1451	well dewatered					
1532	62.1	6.80	504.8	760	—	

Did well dewater? (Yes) No Gallons actually evacuated: 5.5

Sampling Date: 12/28/12 Sampling Time: 1532 Depth to Water: 12.62

Sample I.D.: MW-7 Laboratory: (Test America) Other_____

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

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

DATE: 12/28/12

ADDRESS 610 Market St

CITY & STATE Oakland, CA

Well ID	Observations Upon Arrival: 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
MW-6	Standpipe	Flush	G	P	Size (inch) 36	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-7	Standpipe	Flush	G	P	Size (inch) 36	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	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = 0 | 0 | 0 = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells:				If POOR, Borings/Well IDs or Location Description:			
G	P	N/A			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
N/A	X	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

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
0	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.

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

Pete Lowish BTS

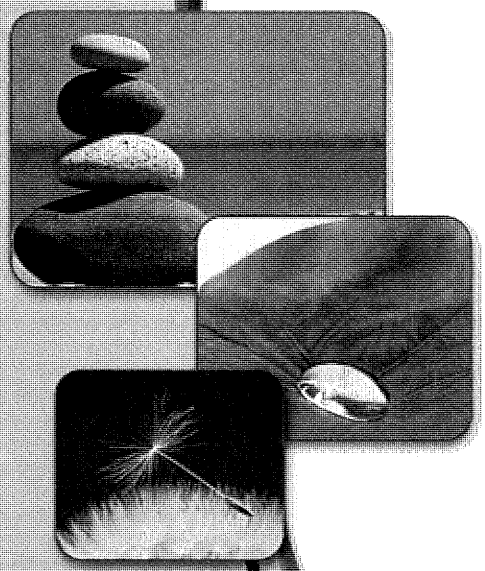
Print or type Name of Field Personnel & Consultant Company

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

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: 440-33823-1
Client Project/Site: 610 Market St., Oakland, CA

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

Attn: Peter Schaefer

Philip Sanelle

Authorized for release by:
1/11/2013 12:01:55 PM

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

Table of Contents

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 610 Market St., Oakland, CA

TestAmerica Job ID: 440-33823-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-33823-1	MW-6	Water	12/28/12 15:25	12/29/12 10:30
440-33823-2	MW-7	Water	12/28/12 15:32	12/29/12 10:30

Job ID: 440-33823-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-33823-1

Comments
No additional comments.

Receipt
The samples were received on 12/29/2012 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 1.8° C, 2.0° C, 2.1° C, 2.2° C, 2.2° C, 2.4° C, 2.8° C, 2.9° C and 3.0° C.

GC/MS VOA
Method(s) 8260B: Due to the high concentration of Methyl Tert Butyl Ether, the matrix spike / matrix spike duplicate (MS/MSD) for batch 77784 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Client Sample ID: MW-6

Lab Sample ID: 440-33823-1

Date Collected: 12/28/12 15:25
Matrix: Water
Date Received: 12/29/12 10:30

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		1300		ug/L			01/08/13 17:45	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*01/08/13 17:45*	*25*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/08/13 17:45*	*25*
Toluene-d8 (Surr)	*103*		*80 - 120*		*01/08/13 17:45*	*25*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		13		ug/L			01/08/13 17:45	25
Ethylbenzene	ND		13		ug/L			01/08/13 17:45	25
Methyl-t-Butyl Ether (MTBE)	ND		13		ug/L			01/08/13 17:45	25
tert-Butyl alcohol (TBA)	**4400**		250		ug/L			01/08/13 17:45	25
Toluene	ND		13		ug/L			01/08/13 17:45	25
Xylenes, Total	ND		25		ug/L			01/08/13 17:45	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/08/13 17:45*	*25*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*01/08/13 17:45*	*25*
Toluene-d8 (Surr)	*103*		*80 - 120*		*01/08/13 17:45*	*25*

Client Sample ID: MW-7

Lab Sample ID: 440-33823-2

Date Collected: 12/28/12 15:32
Matrix: Water
Date Received: 12/29/12 10:30

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			01/09/13 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*01/09/13 12:36*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/09/13 12:36*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*01/09/13 12:36*	*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			01/09/13 12:36	1
Ethylbenzene	ND		0.50		ug/L			01/09/13 12:36	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			01/09/13 12:36	1
tert-Butyl alcohol (TBA)	**1300**		10		ug/L			01/09/13 12:36	1
Toluene	ND		0.50		ug/L			01/09/13 12:36	1
Xylenes, Total	ND		1.0		ug/L			01/09/13 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/09/13 12:36*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*01/09/13 12:36*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*01/09/13 12:36*	*1*

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 610 Market St., Oakland, CA

TestAmerica Job ID: 440-33823-1

Client Sample ID: MW-6

Lab Sample ID: 440-33823-1

Date Collected: 12/28/12 15:25
Matrix: Water
Date Received: 12/29/12 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		25	10 mL	10 mL	77552	01/08/13 17:45	AT	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		25	10 mL	10 mL	77553	01/08/13 17:45	AT	TAL IRV

Client Sample ID: MW-7

Lab Sample ID: 440-33823-2

Date Collected: 12/28/12 15:32
Matrix: Water
Date Received: 12/29/12 10:30

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	77784	01/09/13 12:36	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	77785	01/09/13 12:36	CP	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 440-77552/4
Matrix: Water
Analysis Batch: 77552

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			01/08/13 10:29	1
Ethylbenzene	ND		0.50		ug/L			01/08/13 10:29	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			01/08/13 10:29	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			01/08/13 10:29	1
Toluene	ND		0.50		ug/L			01/08/13 10:29	1
Xylenes, Total	ND		1.0		ug/L			01/08/13 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/08/13 10:29*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*01/08/13 10:29*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*01/08/13 10:29*	*1*

Lab Sample ID: LCS 440-77552/5
Matrix: Water
Analysis Batch: 77552

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	23.2		ug/L		93	70 - 120
Ethylbenzene	25.0	26.1		ug/L		104	75 - 125
m,p-Xylene	50.0	52.5		ug/L		105	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	29.0		ug/L		116	60 - 135
o-Xylene	25.0	27.1		ug/L		108	75 - 125
tert-Butyl alcohol (TBA)	125	152		ug/L		122	70 - 135
Toluene	25.0	25.7		ug/L		103	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 440-33825-A-3 MS
Matrix: Water
Analysis Batch: 77552

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	3.9		25.0	25.9		ug/L		88	65 - 125
Ethylbenzene	ND		25.0	25.1		ug/L		99	65 - 130
m,p-Xylene	1.2		50.0	50.3		ug/L		98	65 - 130
Methyl-t-Butyl Ether (MTBE)	4.1		25.0	30.6		ug/L		106	55 - 145
o-Xylene	ND		25.0	25.6		ug/L		102	65 - 125
tert-Butyl alcohol (TBA)	710		125	865	4	ug/L		122	65 - 140
Toluene	ND		25.0	24.6		ug/L		97	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

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

Lab Sample ID: 440-33825-A-3 MSD
Matrix: Water
Analysis Batch: 77552

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	3.9		25.0	26.8		ug/L		91	65 - 125	3	20
Ethylbenzene	ND		25.0	25.4		ug/L		100	65 - 130	1	20
m,p-Xylene	1.2		50.0	50.1		ug/L		98	65 - 130	0	25
Methyl-t-Butyl Ether (MTBE)	4.1		25.0	32.0		ug/L		111	55 - 145	4	25
o-Xylene	ND		25.0	25.5		ug/L		102	65 - 125	1	20
tert-Butyl alcohol (TBA)	710		125	862	4	ug/L		119	65 - 140	0	25
Toluene	ND		25.0	25.2		ug/L		99	70 - 125	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: MB 440-77784/4
Matrix: Water
Analysis Batch: 77784

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			01/09/13 09:22	1
Ethylbenzene	ND		0.50		ug/L			01/09/13 09:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			01/09/13 09:22	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			01/09/13 09:22	1
Toluene	ND		0.50		ug/L			01/09/13 09:22	1
Xylenes, Total	ND		1.0		ug/L			01/09/13 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*01/09/13 09:22*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*01/09/13 09:22*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*01/09/13 09:22*	*1*

Lab Sample ID: LCS 440-77784/5
Matrix: Water
Analysis Batch: 77784

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	22.6		ug/L		90	70 - 120
Ethylbenzene	25.0	24.6		ug/L		98	75 - 125
m,p-Xylene	50.0	49.2		ug/L		98	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	30.6		ug/L		122	60 - 135
o-Xylene	25.0	26.1		ug/L		104	75 - 125
tert-Butyl alcohol (TBA)	125	147		ug/L		118	70 - 135
Toluene	25.0	25.1		ug/L		100	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Dibromofluoromethane (Surr)	*117*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

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

Lab Sample ID: 440-33836-B-3 MS
Matrix: Water
Analysis Batch: 77784

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	22.6		ug/L		90	65 - 125
Ethylbenzene	ND		25.0	25.7		ug/L		103	65 - 130
m,p-Xylene	ND		50.0	51.0		ug/L		102	65 - 130
Methyl-t-Butyl Ether (MTBE)	130		25.0	165	4	ug/L		120	55 - 145
o-Xylene	ND		25.0	26.6		ug/L		107	65 - 125
tert-Butyl alcohol (TBA)	21		125	167		ug/L		116	65 - 140
Toluene	ND		25.0	25.0		ug/L		100	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 440-33836-B-3 MSD
Matrix: Water
Analysis Batch: 77784

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	22.5		ug/L		90	65 - 125	0	20
Ethylbenzene	ND		25.0	25.4		ug/L		102	65 - 130	1	20
m,p-Xylene	ND		50.0	50.2		ug/L		100	65 - 130	2	25
Methyl-t-Butyl Ether (MTBE)	130		25.0	169	4	ug/L		137	55 - 145	3	25
o-Xylene	ND		25.0	26.6		ug/L		106	65 - 125	0	20
tert-Butyl alcohol (TBA)	21		125	152		ug/L		104	65 - 140	10	25
Toluene	ND		25.0	24.9		ug/L		100	70 - 125	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: MB 440-77553/4
Matrix: Water
Analysis Batch: 77553

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			01/08/13 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*01/08/13 10:29*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/08/13 10:29*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*01/08/13 10:29*	*1*

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

Lab Sample ID: LCS 440-77553/6
Matrix: Water
Analysis Batch: 77553

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	582		ug/L		116	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*112*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: 440-33825-A-3 MS
Matrix: Water
Analysis Batch: 77553

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)	180		1730	1490		ug/L		76	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 440-33825-A-3 MSD
Matrix: Water
Analysis Batch: 77553

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)	180		1730	1510		ug/L		77	50 - 145	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*80 - 120*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: MB 440-77785/4
Matrix: Water
Analysis Batch: 77785

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			01/09/13 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*01/09/13 09:22*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*01/09/13 09:22*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*01/09/13 09:22*	*1*

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

Lab Sample ID: LCS 440-77785/6
Matrix: Water
Analysis Batch: 77785

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	570		ug/L		114	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*116*		*80 - 120*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: 440-33836-B-3 MS
Matrix: Water
Analysis Batch: 77785

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)	110		1730	1520		ug/L		82	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*80 - 120*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 440-33836-B-3 MSD
Matrix: Water
Analysis Batch: 77785

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)	110		1730	1510		ug/L		81	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*80 - 120*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 610 Market St., Oakland, CA

TestAmerica Job ID: 440-33823-1

GC/MS VOA

Analysis Batch: 77552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-33823-1	MW-6	Total/NA	Water	8260B	
440-33825-A-3 MS	Matrix Spike	Total/NA	Water	8260B	
440-33825-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-77552/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-77552/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 77553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-33823-1	MW-6	Total/NA	Water	8260B/CA_LUFT MS	
440-33825-A-3 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-33825-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-77553/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-77553/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 77784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-33823-2	MW-7	Total/NA	Water	8260B	
440-33836-B-3 MS	Matrix Spike	Total/NA	Water	8260B	
440-33836-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-77784/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-77784/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 77785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-33823-2	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
440-33836-B-3 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-33836-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-77785/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-77785/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
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: 610 Market St., Oakland, CA

TestAmerica Job ID: 440-33823-1

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	06-30-13
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAP	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	07-31-13
New Mexico	State Program	6	N/A	01-31-13
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-13

Shell Oil Products Chain Of Custody Record 440-33823

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL Houston (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (IRVINE)
- ☐ OTHER (_____)

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

Print Bill To Contact Name: 240594 Peter Schaefer

INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 5 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: _____

PO #

SAP #: 1 3 5 6 9 2

PAGE: _____ of _____

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 610 Market St., Oakland

State: CA

GLOBAL ID NO.: T0600102121

ADDRESS: 1680 Rogers Avenue, San Jose, CA

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville, CA

PHONE NO.: 510-420-3343

E-MAIL: ShellEDF@CRAWorld.com; Shell-US-LabDataManagement@CRAworld.com

CONSULTANT PROJECT NO.: 240594-95-12.04

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: (310) 885-4455 x 108

FAX: (310) 637-5802

E-MAIL: lking@blainetech.com

SAMPLER NAME(S) (Print): P. Cornish

LAB USE ONLY

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:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:
1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabedduplload.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)

TEMPERATURE ON RECEIPT, °C

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)	Container PID Readings or Laboratory Notes
17	WG	121228-RC2	122812	PC	MW-6	1525	WG	X					3	X				X								
	↓	↓	↓	↓	MW-7	1532	↓	X					3	X				X								

Relinquished by: (Signature) P. Cornish — Received by: (Signature) Lenaly Hayes — Date: 12/28/12 — Time: 1535

Relinquished by: (Signature) Lenaly Hayes 12-28-12 18:00 — Received by: (Signature) [illegible] — Date: 12/29/12 — Time: 1030

Relinquished by: (Signature) — Received by: (Signature) — Date: — Time:

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1/11/2013

3.0

Shell Oil Products Chain Of Custody Record 440-33823

1/11/2013

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL Houston (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (IRVINE)
- ☐ OTHER (_____)

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

Print Bill To Contact Name: 240594 Peter Schaefer

INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 5 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 12/28/12

PO #:

SAP #: 1 3 5 6 9 2

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 610 Market St, Oakland

State: CA

GLOBAL ID NO.: T0600102121

ADDRESS: 1680 Rogers Avenue, San Jose, CA

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville, CA

PHONE NO.: 510-420-3343

E-MAIL: ShellEDF@CRAWorld.com; Shell-US-LabDataManagement@CRAworld.com

CONSULTANT PROJECT NO.: 240504-05-12.04

PROJECT CONTACT (Hardcopy or PDF Report to): Loria King

SAMPLER NAME(S) (Print): P. Cormier

LAB USE ONLY

TELEPHONE: (310) 885-4455 x 108

FAX: (310) 637-5802

E-MAIL: lking@blainetech.com

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	↓	↓	↓	↓	MW-7	1532	↓	X					3	X				X									

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	12/28/12	1535
[signature] 12-28-12 18:00	[signature]	12/29/12	1030

3.0

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-33823-1

Login Number: 33823

List Number: 1

Creator: Freitag, Kevin R

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	