

5900 Hollis Street, Suite A Emeryville, California 94608

Telephone: (510) 420-0700

www.CRAworld.com

Fax: (510) 420-9170

TRANSMITTAL

DATE:	July 7, 2014	REFERENCE No.: 241501	
		PROJECT NAME: 461 8th Street, Oa	kland
To:	Jerry Wickham	DECENTED	
	Alameda County Environme		
	1131 Harbor Bay Parkway, S	uite 250	onmental Health at 9:55 am, Jul 10, 2014
•	Alameda, California 94502-6	77	
			
Please fine	d enclosed: Draft Originals Prints	Final Other	· · · · · · · · · · · · · · · · · · ·
Sent via:	☐ Mail ☐ Overnight Co	Same Day Courier Urier Other GeoTracker and Alamed	a County FTP
QUAN	TTTY	DESCRIPTION	
1	Groundwater Monit	oring Report - Second Quarter 2014	
	requested 🔀	For Review and Comment	· · · · · · · · · · · · · · · · · · ·
	A VOTE CI		
If you have		contents of this document, please call the CRA	A project manager
	<u> </u>	nell program manager Perry Pineda at (425) 41	• /
Copy to:	Leroy Griffin, Fire Pre Oakland, CA 94612	Products US (electronic copy) vention Bureau, 250 Frank Ogawa Plaza, 3 rd F rs, LLC (property owner), c/o Terry Wolf Sr.,	
Complete	ed by: Peter Schaefer	Signed: Signed:	
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Shell Oil Products US

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

Re: 461 8th Street

Oakland, California SAP Code 129453 Incident No. 97093399

ACEH Case No. RO0000343

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 - SECOND QUARTER 2014

FORMER SHELL SERVICE STATION 461 8TH STREET OAKLAND, CALIFORNIA

SAP CODE 129453 INCIDENT NO. 97093399 AGENCY NO. RO0000343

> Prepared by: Conestoga-Rovers & Associates

5900 Hollis Street, Suite A Emeryville, California

U.S.A. 94608

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

web: http://www.CRAworld.com

JULY 7, 2014 Ref. No. 241501 (35)

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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 461 8th Street, Oakland

Site Use Parking lot

Shell Project Manager Perry Pineda

CRA Project Manager Peter Schaefer

Lead Agency and Contact ACEH, Jerry Wickham

Agency Case No. RO0000343

Shell SAP Code: 129453

Shell Incident No. 97093399

Date of most recent agency correspondence was April 28, 2014.

2.0 <u>SITE ACTIVITIES, FINDINGS, AND DISCUSSION</u>

2.1 <u>CURRENT QUARTER'S ACTIVITIES</u>

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 reports are presented in Appendix B.

On March 14, 2014, Blaine collected separate-phase hydrocarbon (SPH) samples from wells S-5 and S-13 and sent them to Shell's Houston, Texas laboratory for hydrocarbon fingerprinting. The fingerprint analysis confirmed that the SPHs are consistent with gasoline manufactured in the mid-1960s to the mid-1980s. Blaine also installed SPH-absorbent socks in wells S-5 and S-13 during this event. On April 21, 2014, Blaine replaced the SPH-absorbent socks in wells S-5 and S-13. Up to 1.15 feet of SPHs were

measured in well S-5 during the January 31, 2014, March 14, 2014, and April 21, 2014 monitoring events. Up to 0.39 foot of SPHs were measured in well S-13 during the March 14, 2014 and April 21, 2014 monitoring events. Approximately 14.01 pounds of SPHs were recovered by hand bailing (12.43 pounds from MW-5 and 1.58 pounds from MW-13) and 2.42 pounds of SPHs were recovered from the absorbent socks (1.36 pounds from MW-5 and 1.06 pounds from MW-13) during first and second quarters 2014. From October 1979 to May 1998, approximately 6,497 gallons of groundwater mixed with SPHs were removed from well S-5 and the adjacent Bay Area Rapid Transit tunnel. A summary of recent SPH removal from wells S-5 and S-13 is provided below.

SPH REMOVA	AL SUMMARY
This Period (pounds)	Cumulative Removal (pounds)
16.43	16.43

2.2 <u>CURRENT QUARTER'S FINDINGS</u>

Groundwater Flow Direction Southwesterly to westerly

Hydraulic Gradient 0.03

Depth to Water 19.80 to 27.08 feet below top of well casing

2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells according to the established monitoring program for the site. The site is monitored quarterly, and CRA will issue groundwater monitoring reports semiannually following the second and fourth quarter sampling events.

Blaine will remove SPHs from wells S-5 and S-13 by hand bailing and using SPH-absorbent socks. The wells will be bailed and the socks will be replaced quarterly until no SPHs are observed or recovered for four consecutive quarters.

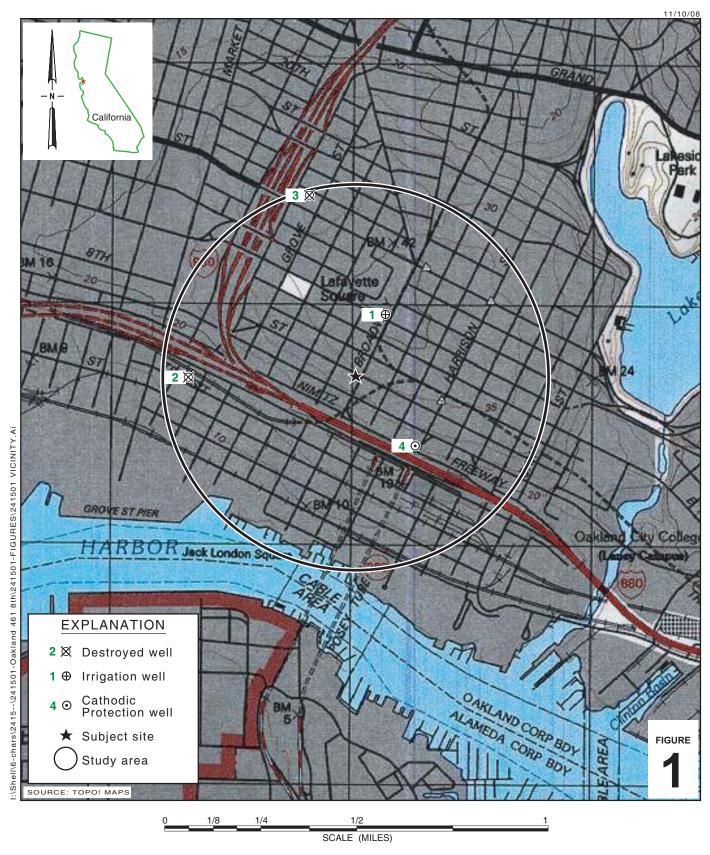
All of Which is Respectfully Submitted, CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG



FIGURES

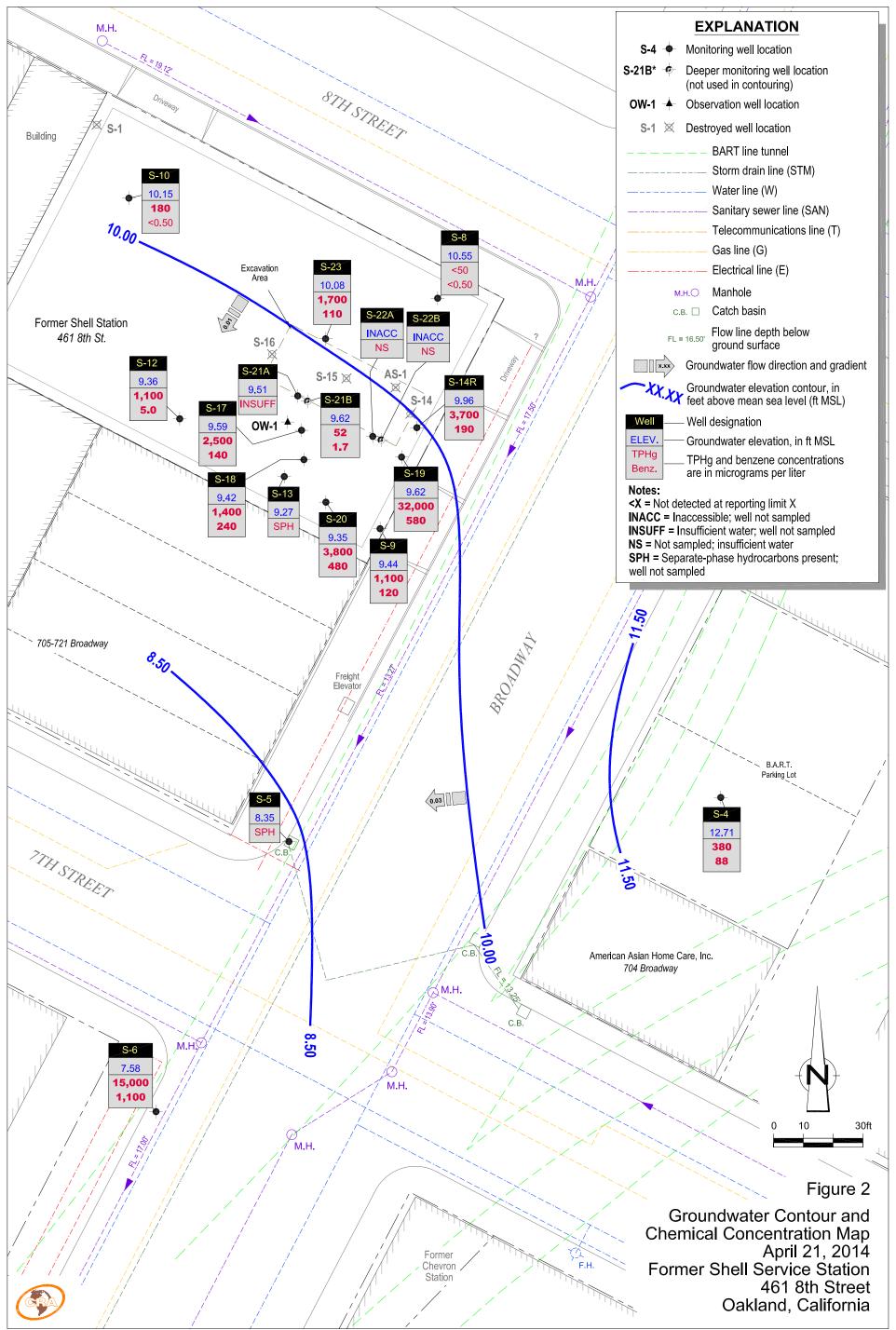


Former Shell Service Station

461 8th Street Oakland, California



Vicinity Map



TABLE

Well ID	Date	TPHg (μg/L)	Β (μg/L)	T (µg/L)	E (µg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)	EDC (μg/L)	EDB (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-4	10/26/1988	130	3.8	13	4.0	30									93.51					
S-4	02/14/1989	<50	0.50	<1.0	<1.0	3.0									93.51	12.82		80.69		
S-4	05/01/1989	Well dry													93.51	16.48		77.03		
S-4	07/27/1989	Well dry													93.51	15.84		77.67		
S-4	10/05/1989	Well dry													93.51	15.98		77.53		
S-4	01/09/1990	Well dry													93.51	15.86		77.65		
S-4	04/30/1990	<50	< 0.50	< 0.50	< 0.50	<1.0									93.51	14.48		79.03		
S-4	07/31/1990	Well dry													93.51					
S-4	10/30/1990	Well dry													93.51					
S-4	05/06/1991	Well dry													93.51	15.23		78.28		
S-4	06/27/1991	<50	< 0.50	< 0.50	< 0.50	< 0.50									93.51	13.54		79.97		
S-4	09/24/1991	Well dry													93.51	15.85		77.66		
S-4	11/07/1991	Well dry													93.51	15.60		77.91		
S-4	02/13/1992	<50	< 0.50	< 0.50	< 0.50	3.0									93.51	14.27		79.24		
S-4	05/11/1992	Well dry													93.51					
S-4	12/03/1992	Well inacce													93.51					
S-4	05/13/1993	Well inacce													93.51	14.81		78.70		
S-4	07/22/1993	Well inacce													93.51	14.42		79.09		
S-4	10/20/1993	Well inacce													93.51					
S-4	01/25/1994	Well inacce													93.51	14.60		78.91		
S-4	04/25/1994	Well inacce													93.51	14.39		79.12		
S-4	07/21/1994	<50	< 0.50	< 0.50	< 0.50	< 0.50									93.51	22.29		71.22		
S-4	10/24/1994	<500	< 0.50	< 0.50	< 0.50	< 0.50									93.51	22.72		70.79		
S-4	12/22/1994	<50	< 0.50	< 0.50	< 0.50	< 0.50									25.77	22.25		3.52		
S-4	04/20/1995	<50	< 0.50	<0.50	<0.50	<0.50									25.77	21.16		4.61		
S-4	10/04/1995	<50	1.2	0.70	<0.50	<0.50									25.77	22.25		3.52		
S-4	01/03/1996	<50	0.60	<0.50	<0.50	1.7									25.77	23.28		2.49		
S-4	04/11/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5								25.77	21.58		4.19		
S-4	07/11/1996	<50	<0.50	< 0.50	< 0.50	< 0.50	<2.5								25.77	21.60		4.17		
S-4	10/02/1996	<50	< 0.50	< 0.50	< 0.50	<0.50	2.6								25.77	22.46		3.31		
S-4	01/22/1997	<50	0.73	<0.50	< 0.50	0.63	<2.5								25.77	20.06		5.71		
S-4	07/21/1997	<50 <50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<2.5 <2.5								25.77 25.77	22.10 20.50		3.67 5.27		
S-4	01/22/1998																			
S-4	07/08/1998	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5								25.77	20.86		4.91		
S-4	10/26/1998	<50	 <0.F0	 <0.F0	 <0.F0	 <0.F0	 -2 F								25.77	21.41		4.36		
S-4 S-4	01/28/1999 04/23/1999		< 0.50	<0.50	< 0.50	< 0.50	<2.5								25.77 25.77	22.34 21.43		3.43 4.34		
S-4 S-4		 <50.0	<0.500	<0.500	<0.500	<0.500	<5.00								25.77					
	07/29/1999 11/01/1999	<50.0													25.77	21.45 22.08		4.32 3.69		
S-4 S-4	01/07/2000	<50	<0.50	<0.50	<0.50	<0.50	<2.5								25.77 25.77	22.08		3.48		
S-4 S-4	04/11/2000		<0.50 	<0.50 	<0.50 	<0.50 									25.77	22.29		3.48 4.66		
S-4 S-4	07/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50								25.77	21.11		4.58		
3-4	07 / 19 / 2000	\50.0	~0.500	~0.500	~0.500	~0.500	~2.50								23.77	41.19		4.30		

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)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-4	10/12/2000														25.77	22.22		3.55		
S-4	01/09/2001	<50.0	< 0.500	< 0.500	< 0.500	< 0.500	< 2.50								25.77	22.17		3.60		
S-4	04/06/2001														25.77	21.50		4.27		
S-4	07/25/2001	<50	2.0	0.52	< 0.50	1.0		<5.0							25.77	21.50		4.27		
S-4	11/01/2001														25.77	21.95		3.82		
S-4	01/17/2002	<50 d	<0.50 d	<0.50 d	<0.50 d	<0.50 d		<5.0 d							25.77	21.13		4.64		
S-4	05/08/2002														25.77	21.35		4.42		
S-4	07/18/2002	<50	< 0.50	< 0.50	< 0.50	< 0.50		<5.0							34.41	21.19		13.22		
S-4	10/15/2002														34.41	21.42		12.99		
S-4	01/02/2003	<50	< 0.50	< 0.50	< 0.50	< 0.50		<5.0							34.41	20.75		13.66		
S-4	04/15/2003														34.41	21.08		13.33		
S-4	07/14/2003														34.41	19.93		14.48		
S-4	10/20/2003	 <=0	<0.50	 <0.50	 <0.F0			 <0.50							34.41	19.56		14.85		
S-4 S-4	01/22/2004 04/19/2004	<50 	<0.50 	<0.50	<0.50	<1.0		<0.50							34.41 34.41	19.12 19.15		15.29 15.26		
S-4 S-4	07/13/2004														34.41	20.48		13.26		
S-4	10/28/2004														34.41	21.00		13.41		
S-4	01/17/2005	<50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							34.41	20.17		14.24		
S-4	04/14/2005														34.41	19.82		14.59		
S-4	07/28/2005														34.41	20.71		13.70		
S-4	10/05/2005														34.41	20.85		13.56		
S-4	02/09/2006	<50.0	< 0.500	< 0.500	< 0.500	< 0.500		< 0.500							34.41	19.47		14.94		
S-4	05/15/2006														34.41	19.52		14.89		
S-4	08/23/2006														34.41	20.75		13.66		
S-4	11/15/2006														34.41	20.03		14.38		
S-4	01/30/2007	<50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							34.41	21.30		13.11		
S-4	05/29/2007														34.41	21.15		13.26		
S-4	08/15/2007														34.41	21.38		13.03		
S-4	11/28/2007														34.41	21.55		12.86		
S-4	02/08/2008	64 f	< 0.50	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	34.41	22.75		11.66		
S-4	05/08/2008														34.41	22.18		12.23		
S-4	08/14/2008														34.41	21.77		12.64		
S-4	11/11/2008														34.41	20.68		13.73		
S-4	01/05/2009	250	1.8	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	34.41	20.92		13.49		
S-4	04/09/2009														34.41	21.10		13.31		
S-4	07/23/2009														34.41	21.76		12.65		
S-4	10/01/2009														34.41	22.10		12.31		
S-4	01/28/2010	<50	< 0.50	<1.0	<1.0	<1.0									34.41	21.75		12.66		
S-4	05/20/2010														34.41	21.44		12.97		
S-4	08/31/2010														34.41	21.72		12.69		
S-4	12/29/2010	 	 -0.50		 -0.F0										34.41	20.91		13.50	1.04	157
S-4	02/01/2011	<50	< 0.50	< 0.50	< 0.50	1.1									34.41	21.19		13.22	1.84	157

							MTBE	MTBE								Depth to	SPH	GW		
Well ID	Date	TPHg (μg/L)	B (μg/L)	Τ (μg/L)	E (μg/L)	X (μg/L)	8020 (μg/L)	8260 (μg/L)	TBA (μg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)	EDC (µg/L)	EDB (μg/L)	TOC (ft MSL)	Water (ft TOC)	Thickness (ft)	Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-4	04/25/2011														34.41	17.32		17.09		
S-4	07/28/2011														34.41	20.92		13.49		
S-4	10/28/2011														34.41	21.35		13.06		
S-4	05/07/2012	240	86	22	9.5	25									34.41	20.65		13.76	2.52	119
S-4	05/02/2013	55	< 0.50	< 0.50	< 0.50	<1.0									34.41	21.45		12.96		
S-4	04/21/2014	380	88	58	14	42									34.41	21.70		12.71		
S-5	04/16/1987	130,000	15,000	16,000	a	14,000									99.36					
S-5	10/26/1988	110,000	20,000	25,000	2,300	10,000									99.36					
S-5	02/14/1989	94,000	16,000	21,000	1,800	10,000									99.36	19.87		79.49		
S-5	05/01/1989	120,000	29,000	35,000	3,100	15,000									99.36	21.23		78.13		
S-5	07/27/1989	110,000	20,000	29,000	2,400	14,000									99.36	20.41		78.95		
S-5	10/05/1989														99.36	20.43	0.01	78.94		
S-5	01/09/1990														99.36	21.16	0.01	78.21		
S-5	04/30/1990	100,000	13,000	22,000	2,100	11,000									99.36	20.96		78.40		
S-5	07/31/1990	53,000	8,300	14,000	1,200	7,400									99.36	20.88		78.48		
S-5	10/30/1990														99.36	21.96	0.03	77.42		
S-5	05/06/1991														99.36	23.00	0.13	76.46		
S-5	06/27/1991														99.36	20.53	0.03	78.85		
S-5	09/24/1991														99.36	21.40	0.06	78.01		
S-5	11/07/1991														99.36	21.33	0.25	78.23		
S-5	02/13/1992														99.36	22.52	0.31	77.09		
S-5	05/11/1992														99.36	22.46	0.58	77.36		
S-5	12/03/1992	Well inacce	essible												99.36					
S-5	05/13/1993														99.36	22.22	0.27	77.36		
S-5	07/22/1993														99.36	21.68	0.25	77.88		
S-5	10/20/1993														99.36	20.51	0.23	79.03		
S-5	01/25/1994														99.36	21.93	0.18	77.57		
S-5	04/25/1994														99.36	21.97	0.35	77.67		
S-5	05/26/1994														99.36	20.84	0.35	78.80		
S-5	06/10/1994														99.36	21.01	0.32	78.61		
S-5	07/21/1994														99.36	22.18	0.47	77.56		
S-5	08/25/1994														99.36	22.01	0.44	77.70		
S-5	09/22/1994														99.36	22.00	0.15	77.48		
S-5	10/24/1994														99.36	22.28	0.56	77.53		
S-5	12/22/1994														22.94	22.88	0.99	0.85		
S-5	04/20/1995														22.94	21.66	0.33	1.54		
S-5	10/04/1995														22.94	22.18		0.76		
S-5	01/03/1996														22.94	22.80	0.83	0.80		
S-5	04/11/1996														22.94	21.15	0.67	2.33		
S-5	07/11/1996														22.94	22.62	0.90	1.04		
S-5	10/02/1996														22.94	23.07	0.64	0.38		
3-3	10/04/1990														44.7 4	23.07	0.04	0.36		

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	E (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)	EDC (μg/L)	EDB (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-5	01/22/1997														22.94	20.83	0.16	2.24		
S-5	07/21/1997														22.94	21.16	0.05	1.82		
S-5	01/22/1998														22.94	20.04	0.04	2.93		
S-5	07/08/1998	220	14	40	5.8	34	3.3								22.94	18.61		4.33		
S-5	10/26/1998														22.94	17.31		5.63		
S-5	01/28/1999	51,000	13,000	1,200	1,200	2,400	2,400								22.94	20.11		2.83		
S-5	04/23/1999	65,600	2,540	7,300	1,790	9,840	<1,000								22.94	19.21		3.73		
S-5	07/29/1999	61,400	3,320	6,980	1,520	7,700	<1,000								22.94	14.77		8.17		
S-5	11/01/1999	48,200	2,700	5,740	1,290	7,850	<500	<40.0							22.94	15.56		7.38		
S-5	01/07/2000	39,000	3,900	8,500	790	8,300	1,500								22.94	15.82		7.12		
S-5	04/11/2000	29,300	1,680	5,060	1,130	6,220	<250								22.94	18.19		4.75		
S-5	07/19/2000	6,420	2,110	207	252	681	355	253 b							22.94	19.01		3.93		
S-5	10/12/2000	41,500	2,940	4,940	1,520	7,770	<250	<66.7							22.94	19.62		3.32		
S-5	01/09/2001	142,000	7,030	9,550	2,340	12,600	779								22.94	19.94		3.00		
S-5	04/06/2001	Well inacco		10.000	1.050	10.100	942	 <10.0							22.94	14.70		e 22		
S-5 S-5	04/13/2001 07/25/2001	59,800 71,000	4,810 2,900	10,800 6,800	1,950 1,700	10,100 9,100	842	<10.0 <250							22.94 22.94	14.72 14.91		8.22 8.03		
S-5	08/13/2001	71,000	2,900 			9,100		~230							22.94	19.43		3.51		
S-5	11/01/2001	Unable to													22.94	19.43		J.J1 		
S-5	01/17/2002	58,000 d	460 d	3,300 d	1,900 d	8,400 d		<200 d							22.94 C	14.27				
S-5	05/08/2002	60,000 d	d	2,700 d	1,800 d	8,800 d		<100 d							22.94	18.40		4.54		
S-5	07/18/2002	53,000	240	1,200	1,500	6,400		<100							27.36	14.25		13.11		
S-5	10/15/2002	Well inacco													27.36					
S-5	10/17/2002	42,000	420	1,100	1,200	5,500		<10							27.36	14.90		12.46		
S-5	01/02/2003	26,000	680	1,500	780	3,800		<5.0							27.36	14.72		12.64		
S-5	04/15/2003	3,600	29	38	65	370		<5.0							e	14.45				
S-5	07/14/2003	21,000	210	460	650	2,900		<10							e	14.10				
S-5	10/20/2003	37,000	390	590	870	3,500		<13							e	14.63				
S-5	01/22/2004	29,000	200	210	710	2,400		<13							e	14.08				
S-5	04/19/2004	25,000	490	460	750	2,400		19							e	13.43				
S-5	07/13/2004	28,000	300	280	690	2,400		<13							e	14.88				
S-5	08/14/2008	31,000	1,700	1,600	1,400	3,350		<10					< 5.0	<10	e	16.65				
S-5	11/11/2008	37,000 i	2,500 i	1,300 i	2,000 i	3,490 i		<50 i					<25 i	<50 i	e	16.81				
S-5	11/11/2008	40,000 j	2,300 j	1,400 j	1,900 j	3,630 j		<50 j					<25 j	<50 j	e	16.81				
S-5	01/05/2009	57,000	2,300	1,400	1,500	2,900		<10					<5.0	<10	e	16.71				
S-5	04/09/2009	52,000	2,100	3,500	1,900	5,400		<20					<10	<20	e	16.31			0.3	163
S-5	07/23/2009	37,000	1,800	1,900	1,400	3,800									e	16.62			1.48	-84
S-5	10/01/2009	36,000	1,800	1,900	1,400	3,700									27.24	16.35		10.89	0.86	-52
S-5	01/28/2010	35,000	1,200	1,900	1,500	3,600									27.24	16.35		10.89		
S-5	05/20/2010	36,000	1,600	2,500	1,700	4,500									27.24	16.50		10.74	1.22	227
S-5	08/31/2010	32,000	1,300	1,100	1,600	3,400									27.24	16.95		10.29	0.58	-102
S-5	12/29/2010	26,000	970	1,500	1,500	3,200									27.24	16.25		10.99	1.18	233

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (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)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-5	02/01/2011	27,000	1,100	1,500	1,400	3,100									27.24	15.38		11.86	1.65	-83
S-5	04/25/2011	70,000	380	440	720	1,200									27.24	13.98		13.26	0.95	-109
S-5	07/28/2011	21,000	340	430	570	1,000									27.24	13.80		13.44	0.71	-95
S-5	10/28/2011	23,000	430	480	570	1,300									27.24	14.28		12.96	6.05	190
S-5	05/07/2012	16,000	150	200	350	760									27.24	13.82		13.42	3.61	120
S-5	08/31/2012	12,000	330	300	330	850									27.24	14.68		12.56	1.38	253
S-5	12/11/2012	14,000	420	700	550	1,500									27.24	16.00		11.24	1.07/1.29	162/63
S-5	01/24/2013	29,000	910	1,700	1,200	2,700									27.24	16.46		10.78		
S-5	05/02/2013	35,000	650	1,500	1,400	4,500									27.24	18.59		8.65		
S-5	08/09/2013	350,000	820	9,800	6,900	34,000									27.24	19.12		8.12		
S-5	11/07/2013														27.24	k	k	k		
S-5	01/31/2014														27.24	19.87	0.91	8.10		
S-5	03/14/2014														27.24	19.98	1.15	8.18		
S-5	04/21/2014														27.24	19.80	1.14	8.35		
S-6	04/16/1987	81,000	16,000	9,000	a	6,400									100.58					
S-6	10/26/1988	110,000	29,000	18,000	2,500	8,200									100.58					
S-6	02/14/1989	54,000	18,000	4,500	1,400	4,000									100.58	20.87		79.71		
S-6	05/01/1989	93,000	43,000	9,900	3,000	8,000									100.58	20.49		80.09		
S-6	07/27/1989	52,000	20,000	3,200	1,700	5,500									100.58	21.01		79.57		
S-6	10/05/1989	55,000	20,000	2,900	1,600	5,500									100.58	21.24		79.34		
S-6	01/09/1990	76,000	35,000	9,100	2,300	8,600									100.58	22.62	Sheen	77.96		
S-6	04/30/1990	39,000	13,000	2,300	900	2,800									100.58	22.10		78.48		
S-6	07/31/1990	48,000	20,000	4,600	1,500	4,900									100.58	22.00		78.58		
S-6	10/30/1990	27,000	7,400	900	600	1,400									100.58	22.14		78.44		
S-6	05/06/1991	35,000	3,900	2,700	2,300	3,500									100.58	22.40		78.18		
S-6	06/27/1991	51,000	19,000	5,600	1,700	6,300									100.58	21.21		79.37		
S-6	09/24/1991	42,000	14,000	4,300	1,200	4,000									100.58	22.26		78.32		
S-6	11/07/1991	39,000	11,000	2,000	800	2,300									100.58	22.35		78.23		
S-6	02/13/1992	64,000	21,000	6,200	1,600	5,100									100.58	22.28		78.30		
S-6	05/11/1992	57,000	22,000	7,600	2,200	7,700									100.58	22.10		78.48		
S-6	12/03/1992	110,000	26,000	9,400	2,100	8,700									100.58	22.14		78.44		
S-6	05/13/1993	58,000	21,000	6,800	2,500	9,800									100.58	22.16		78.42		
S-6	07/22/1993	70,000	31,000	14,000	3,000	13,000									100.58	21.64		78.94		
S-6	10/20/1993	48,000	28,000	9,800	3,200	12,000									100.58	21.62		78.96		
S-6	01/25/1994	70,000	23,000	7,500	2,500	8,000									100.58	21.80		78.78		
S-6	04/25/1994	61,000	16,000	4,000	1,800	5,100									100.58	21.68		78.90		
S-6	07/21/1994	44,000	8,200	3,600	1,400	3,900									100.58	21.78		78.80		
S-6 (D)	07/21/1994	32,000	7,800	3,400	1,300	3,700									100.58					
S-6	10/24/1994	2,936	1,184	440.6	163.4	648.4									100.58	22.06		78.52		
S-6 (D)	10/24/1994	2,968	770.8	325.3	144.1	622									22.08*					
S-6	12/22/1994	32,000	7,000	2,900	790	2,400									22.08	21.91		0.17		

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (µg/L)	EDC (µg/L)	EDB (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-6 (D)	12/22/1994	32,000	8,000	3,800	1,100	3,400									22.08					
S-6	04/20/1995	56,000	15,000	3,800	1,900	4,900									22.08	21.38		0.70		
S-6 (D)	04/20/1995	49,000	13,000	3,500	1,800	4,700									22.08					
S-6	10/04/1995	49,000	8,400	4,700	1,800	4,800									22.08	21.80		0.28		
S-6 (D)	10/04/1995	41,000	8,400	4,100	1,400	4,400									22.08					
S-6	01/03/1996	52,000	9,100	7,100	1,800	5,800									22.08	21.70		0.38		
S-6	04/11/1996	59,000	11,000	7,100	2,100	6,400	< 500								22.08	21.62		0.46		
S-6 (D)	04/11/1996	59,000	11,000	6,800	1,900	6,400	< 500								22.08					
S-6	07/11/1996	72,000	18,000	6,600	2,500	8,400	<1,000								22.08	21.65		0.43		
S-6	10/02/1996	57,000	11,000	6,500	1,500	5,100	< 500								22.08	21.80		0.28		
S-6	01/22/1997	67,000	15,000	5,000	1,800	5,400	<1,000								22.08	19.95		2.13		
S-6 (D)	01/22/1997	63,000	15,000	4,800	1,800	5,200	<1,000								22.08					
S-6	07/21/1997	61,000	15,000	2,100	1,100	3,500	1,900								22.08	20.61		1.47		
S-6	01/22/1998	46,000	14,000	3,200	1,300	3,400	< 500								22.08	19.82		2.26		
S-6	07/08/1998	74,000	26,000	7,500	2,200	6,200	<1,000								22.08	18.20		3.88		
S-6	10/26/1998														22.08	18.81		3.27		
S-6	01/28/1999	120,000	9,000	14,000	2,700	14,000	3,700								22.08	19.73		2.35		
S-6	04/23/1999	58,500	15,900	1,360	1,640	3,030	<2500								22.08	17.58		4.50		
S-6	07/29/1999	36,200	10,300	760	930	1,360	<1,000								22.08	21.35		0.73		
S-6	11/01/1999	36,000	11,700	767	865	1,670	<1,250	<40.0							22.08	19.23		2.85		
S-6	01/07/2000	36,000	7,600	4,600	840	3,600	<1,000								22.08	19.53		2.55		
S-6	04/11/2000	14,600	7,540	205	306	609	621								22.08	18.16		3.92		
S-6	07/19/2000	2,590	629	63.9	99.6	267	124	72.7 b							22.08	18.40		3.68		
S-6	10/12/2000	32,900	14,200	966	1,060	1,790	< 500	<100							22.08	19.52		2.56		
S-6	01/09/2001	27,600	11,200	675	666	1,580	1,430	<10.0 b							22.08	19.69		2.39		
S-6	02/05/2001														22.08	19.20		2.88		
S-6	04/06/2001	16,900	7,800	343	172	966	809	<20.0							22.08	18.25		3.83		
S-6	07/25/2001	29,000	9,800	1,700	1,000	1,800		<250							22.08	18.27		3.81		
S-6	11/01/2001	41,000	15,000	2,400	1,100	2,500		< 500							22.08	19.30		2.78		
S-6	01/17/2002	38,000 d	11,000 d	1,700 d	990 d	2,200 d		<500 d							22.08	18.51		3.57		
S-6	05/08/2002	72,000	21,000	4,400	2,200	5,300		<1,000							22.08	18.30		3.78		
S-6	07/18/2002	71,000	17,000	4,300	1,700	4,800		<1,000							30.56	18.19		12.37		
S-6	10/15/2002	55,000	16,000	4,600	1,500	4,600		<100							30.56	18.77		11.79		
S-6	01/02/2003	75,000	21,000	5,000	2,400	6,400		< 50							30.56	18.60		11.96		
S-6	04/15/2003	64,000	29,000	6,400	2,700	5,600		<1,000							30.56	18.27		12.29		
S-6	07/14/2003	47,000	19,000	4,300	1,500	4,300		<100							30.56	18.05		12.51		
S-6	10/20/2003	63,000	21,000	5,800	1,900	5,200		<130							30.56	18.55	Sheen	12.01		
S-6	01/22/2004	41,000	21,000	4,300	1,800	4,000		<130							30.56	18.18	Sheen	12.38		
S-6	04/19/2004	58,000	23,000	4,200	2,200	3,900		<130							30.56	17.32		13.24		
S-6	05/03/2004														30.56	17.30		13.26		
S-6	06/17/2004														30.56	17.70		12.86		
S-6	07/13/2004														30.56	17.85		12.71		

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (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)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-6	10/28/2004	45,000	21,000	3,600	1,700	3,300		<130							30.56	18.45		12.11		
S-6	01/17/2005	61,000	21,000	3,500	1,600	3,200		<130							30.56	17.52		13.04		
S-6	04/14/2005	36,000	12,000	6,200	850	4,800		<50							30.56	22.49		8.07		
S-6	07/28/2005	54,000	16,000	9,100	1,800	5,900		<130							30.56	19.38		11.18		
S-6	10/05/2005	59,000	14,000	7,500	1,400	5,000		<50							30.56	18.32		12.24		
S-6	02/09/2006	41,100	7,060	3,900	673	2,380		< 0.500							30.56	17.11		13.45		
S-6	05/15/2006	188,000	24,800	20,700	2,540	12,400		<25.0							30.56	19.80		10.76		
S-6	08/23/2006	133,000	24,900	16,100	2,280	10,500		< 0.500							30.56	20.45		10.11		
S-6	11/15/2006	66,000	19,000	8,400	1,900	7,400		<400							30.56	20.41		10.15		
S-6	01/30/2007	88,000	18,000	9,600	1,900	7,200		<100							30.56	20.47		10.09		
S-6	05/29/2007	56,000 f	17,000	6,700	1,700	5,400		<20							30.56	20.40		10.16		
S-6	08/15/2007	57,000 f,g	15,000	6,800	1,600	6,100		<100							30.56	20.49		10.07		
S-6	11/28/2007	42,000 f	13,000	5,000	1,300	5,000		<100					 -F0		30.56	20.65		9.91		
S-6 S-6	02/08/2008 05/08/2008	35,000 f 45,000 f	12,000 15,000	5,000	1,200 1,400	4,050 5,000		<100 <100					<50 <50	<100 <100	30.56	20.31 20.63		10.25 9.93		
S-6 S-6	08/14/2008	37,000 1	11,000	6,100 5,200	1,400	5,000		<100					<50 <50	<100	30.56 30.56	20.65		9.93 9.91		
S-6	11/11/2008	37,000 i	15,000 i	6,200 i	1,200 i	4,600 3,390 i		<100					<5.0 i	<100	30.56	20.63		9.91		
S-6	11/11/2008	14,000 j	5,200 j	680 j	400 j	1,060 j		<50 j					<25 j	<50 j	30.56	20.79		9.77		
S-6	01/05/2009	53,000	9,400	3,600	890	3,100		<100					<50	<100	30.56	21.66		8.90		
S-6	04/09/2009	Unable to													30.56					
S-6	04/21/2009	13,000	3,700	1,100	270	750		<100					<50	<100	30.56	20.20		10.36		
S-6	07/23/2009	15,000	4,400	1,100	360	1,000									30.56	20.66		9.90	1.13	-73
S-6	10/01/2009	21,000	5,100	1,300	420	1,200									30.56	20.86		9.70	0.58	16
S-6	01/28/2010	8,700	2,600	250	200	400									30.56	20.36		10.20		
S-6	05/20/2010	4,400	1,600	82	85	150									30.56	20.68		9.88	1.08	64
S-6	08/31/2010	19,000	4,700	1,300	560	1,600									30.56	20.78		9.78	1.55	-88
S-6	12/29/2010	15,000	3,900	1,500	520	1,800									30.56	19.92		10.64	2.35	123
S-6	02/01/2011	16,000	4,000	1,700	600	1,800									30.56	19.05		11.51	0.61	-143
S-6	04/25/2011	23,000	7,800	3,500	960	3,000									30.56	17.73		12.83	0.76	-112
S-6	07/28/2011	17,000	5,500	1,500	600	1,600									30.56	17.62		12.94	0.77	-26
S-6	10/28/2011	42,000	11,000	4,500	1,600	5,900									30.56	18.12		12.44	4.64	-9
S-6	05/07/2012	38,000	14,000	4,800	1,300	4,400									30.56	17.50		13.06	2.32	116
S-6	08/31/2012	96,000	6,700	2,500	1,900	6,200									30.56	18.42		12.14	0.62	146
S-6	12/11/2012	31,000	8,300	3,700	1,000	3,700									30.56	20.00		10.56	0.92/0.65	102/-16
S-6	01/24/2013	29,000	9,100	2,500	950	2,600									30.56	20.43		10.13		
S-6	05/02/2013	10,000	1,800	1,100	430	1,100									30.56	22.98		7.58		
S-6	08/09/2013	45,000	3,800	8,000	1,800	6,500									30.56	23.21		7.35		
S-6	11/07/2013	33,000	3,600	3,800	1,000	3,700									30.56	25.24		5.32		
S-6	01/31/2014	16,000	1,200	2,700	710	2,500									30.56	23.30		7.26		
S-6	04/21/2014	15,000	1,100	3,100	650	2,300									30.56	22.98		7.58		
S-8	12/22/1994	600	120	32	5.2	34									27.21	24.87		2.34		

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GROUNDWATER DATA FORMER SHELL SERVICE STATION 461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (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)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-8	04/20/1995	460	180	23	5.2	21									27.21	23.90		3.31		
S-8	10/04/1995	830	210	38	11	42									27.21	24.48		2.73		
S-8	01/03/1996	350	61	12	2.5	12									27.21	24.62		2.59		
S-8 (D)	01/03/1996	340	54	12	2.4	12									27.21					
S-8	04/11/1996	570	140	37	12	47	<6.2								27.21	24.32		2.89		
S-8	07/11/1996	980	98	32	9.1	160	<12								27.21	24.10		3.11		
S-8	10/02/1996	280	62	13	3.3	25	15								27.21	25.38		1.83		
S-8 (D)	10/02/1996	490	110	24	7.0	45	22	<2.0							27.21					
S-8	01/22/1997	400	90	13	4.9	25	12								27.21	23.91		3.30		
S-8	07/21/1997	2,900	380	110	26	260	85								27.21	23.62		3.59		
S-8 (D)	07/21/1997	3,200	420	120	32	300	130								27.21					
S-8	01/22/1998	3,800	790	140	42	330	160								27.21	23.52		3.69		
S-8 (D)	01/22/1998	3,500	780	120	33	300	160								27.21					
S-8	07/08/1998	3,600	1,800	<25	<25	<25	<125								27.21	21.52		5.69		
S-8 (D)	07/08/1998	4,000	1,800	<25	<25	31	<125								27.21					
S-8	10/26/1998														27.21	22.01		5.20		
S-8	01/28/1999	2,000	630	6.2	24	51	43								27.21	23.03		4.18		
S-8	04/23/1999	1,050	408	< 5.00	< 5.00	6.65	<50.0								27.21	22.15		5.06		
S-8	07/29/1999	955	344	<2.50	6.90	16.2	<25.0								27.21	21.95		5.26		
S-8	11/01/1999	1,800	550	6.45	15.0	40.4	<50.0								27.21	22.55		4.66		
S-8	01/07/2000	1,300	600	11	29	48	<13								27.21	22.87		4.34		
S-8	04/11/2000	342	101	4.42	4.24	14.7	21.4								27.21	21.86		5.35		
S-8	07/19/2000	579	228	6.37	6.45	25	<12.5								27.21	21.93		5.28		
S-8	10/12/2000	947	340	8.64	3.26	38.3	<12.5	< 2.00							27.21	22.92		4.29		
S-8	01/09/2001	1,090	394	<10.0	<10.0	33.3	57.6								27.21	23.19		4.02		
S-8	04/06/2001	671	182	12.5	16.4	47.1	42.5								27.21	22.46		4.75		
S-8	07/25/2001	500	70	6.7	11	23		<5.0							27.21	22.50		4.71		
S-8	11/01/2001	1,900	250	28	39	180		<5.0							27.21	22.44		4.77		
S-8	01/17/2002	830 d	140 d	11 d	12 d	89 d		<5.0 d							27.21	21.82		5.39		
S-8	05/08/2002	210 d	34 d	1.7 d	4.1 d	15 d		<5.0 d							27.21	21.35		5.86		
S-8	07/18/2002	650	68	2.8	9.7	42		<5.0							35.85	21.53		14.32		
S-8	10/15/2002	1,000	160	4.2	7.7	74		< 0.50							35.85	21.97		13.88		
S-8	01/02/2003	440	55	1.8	2.9	31		< 0.50							35.85	21.95		13.90		
S-8	04/15/2003														35.85	21.73		14.12		
S-8	07/14/2003	60	6.8	< 0.50	0.98	4.9		< 0.50							35.85	21.40		14.45		
S-8	10/20/2003														35.85	21.94		13.91		
S-8	01/22/2004	210	19	0.52	3.6	17		< 0.50							35.85	21.40		14.45		
S-8	04/19/2004														35.85	20.83		15.02		
S-8	07/13/2004	420	77	0.82	14	31		< 0.50							35.85	21.05		14.80		
S-8	10/28/2004														35.85	21.77		14.08		
S-8	01/17/2005	490	85	0.89	13	28		< 0.50							35.85	20.92		14.93		
S-8	04/14/2005														35.85	21.57		14.28		

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GROUNDWATER DATA FORMER SHELL SERVICE STATION 461 8TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	ТРНд	В	T	E	X	MTBE 8020	MTBE 8260	TBA	DIPE	ETBE	TAME	EDC	EDB	тос	Depth to Water	SPH Thickness	GW Elevation	DO	ORP
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)
S-8	07/28/2005	64	12	< 0.50	1.5	1.6		< 0.50							35.85	21.62		14.23		
S-8	10/05/2005														35.85	21.11		14.74		
S-8	02/09/2006	<50.0	2.79	< 0.500	< 0.500	< 0.500		< 0.500							35.85	20.18		15.67		
S-8	05/15/2006														35.85	20.53		15.32		
S-8	08/23/2006	<50.0	< 0.500	< 0.500	< 0.500	< 0.500		< 0.500							35.85	21.49		14.36		
S-8	11/15/2006														35.85	22.05		13.80		
S-8	01/30/2007	<50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							35.85	22.41		13.44		
S-8	05/29/2007														35.85	22.65		13.20		
S-8	08/15/2007	65 f,g	7.4	<1.0	<1.0	<1.0		<1.0							35.85	22.88		12.97		
S-8	11/28/2007														35.85	23.20		12.65		
S-8	02/08/2008	350 f	22	<1.0	4.8	2.6		1.2					< 0.50	<1.0	35.85	22.72		13.13		
S-8	05/08/2008														35.85	22.91		12.94		
S-8	08/14/2008	420	28	<1.0	6.3	1.4		<1.0					< 0.50	<1.0	35.85	23.12		12.73		
S-8	11/11/2008	330 i	37 i	<1.0 i	5.1 i	<1.0 i		<1.0 i					<0.50 i	<1.0 i	35.85	23.37		12.48	1.6	28
S-8	11/11/2008	480 j	29 j	<1.0 j	5.4 j	<1.0 j									35.85	23.37		12.48	2.2	103
S-8	12/18/2008	340	38	<1.0	5.4	<1.0									35.83	23.31		12.52		
S-8	01/05/2009	170	15	<1.0	1.2	<1.0									35.83	23.28		12.55		
S-8	01/15/2009	260	45	<1.0	3.2	<1.0									35.83	23.05		12.78		
S-8	02/12/2009	88	7.2	<1.0	<1.0	<1.0									35.83	23.34		12.49		
S-8	03/12/2009	12,000	1,700	2,100	200	2,400									35.83	22.90		12.93		
S-8	04/09/2009	170	<0.50	<1.0	<1.0	<1.0									35.83	23.10		12.73	2.00	594
S-8	07/23/2009	140	0.55	<1.0	<1.0	<1.0									35.83	23.02		12.81	2.38	-54
S-8	10/01/2009	140	0.68	<1.0	<1.0	<1.0									35.83	23.31		12.52	4.34	359
S-8	01/28/2010	<50	<0.50	<1.0	<1.0	<1.0									35.83	22.80		13.03	0.64	
S-8	05/20/2010	<50	<0.50	<1.0	<1.0	<1.0									35.83	23.55		12.28 12.35	0.64	42 -72
S-8 S-8	08/31/2010 12/29/2010	<50 79	<0.50 0.83	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0									35.83 35.83	23.48 23.18		12.35	0.54 0.74	133
5-8	02/01/2011	<50	< 0.50	<0.50	<0.50	<1.0									35.83	22.57		13.26	1.68	104
S-8	04/25/2011	<50	1.1	<0.50	<0.50	<1.0									35.83	21.26		14.57	1.78	104
S-8	07/28/2011	50	2.4	<0.50	<0.50	<1.0									35.83	20.94		14.89	0.89	186
S-8	10/28/2011	< 50	0.61	<0.50	<0.50	<1.0									35.83	21.09		14.74	2.78	349
S-8	05/07/2012	<50	4.3	1.4	0.59	1.0									35.83	21.23		14.60	2.42	209
S-8	05/02/2013	53	< 0.50	< 0.50	< 0.50	<1.0									35.83	24.65		11.18		
S-8	04/21/2014	<50	<0.50	<0.50	<0.50	<1.0									35.83	25.28		10.55		
5 0	04242011	-50	10.50	10.00	10.00	11.0									00.00	20.20		10.55		
S-9	12/22/1994	2,600	400	150	42	310									26.06	24.37		1.69		
S-9	04/20/1995	1,900	400	130	51	200									26.06	23.49		2.57		
S-9	10/04/1995	3,200	590	260	68	280									26.06	24.01		2.05		
S-9	01/03/1996	Well inacc	essible												26.06					
S-9	04/11/1996	2,100	440	1,500	42	210	<25								26.06	23.61		2.45		
S-9	07/11/1996	5,200	940	450	120	520	<50								26.06	23.78		2.28		
S-9 (D)	07/11/1996	4,800	890	430	110	500	<50								26.06					

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GROUNDWATER DATA FORMER SHELL SERVICE STATION 461 8TH 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)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-9	10/02/1996	3,000	680	220	56	270	<62								26.06	24.31		1.75		
S-9	01/22/1997	1,500	230	71	36	130	<12								26.06	23.08		2.98		
S-9	07/21/1997	3,400	590	57	19	210	96								26.06	22.83		3.23		
S-9	01/22/1998	2,600	300	46	<10	270	62								26.06	21.96		4.10		
S-9	07/08/1998	820	150	6.2	7.5	57	<10								26.06	20.85		5.21		
S-9	10/26/1998														26.06	21.39		4.67		
S-9	01/28/1999	<50	1.0	< 0.50	< 0.50	< 0.50	<2.5								26.06	22.32		3.74		
S-9	04/23/1999														26.06	21.41		4.65		
S-9	07/29/1999	117	7.77	0.817	0.683	5.05	< 5.00								26.06	21.25		4.81		
S-9	11/01/1999														26.06	21.92		4.14		
S-9	01/07/2000	<50	1.2	< 0.50	< 0.50	< 0.50	<2.5								26.06	22.11		3.95		
S-9	04/11/2000														26.06	21.14		4.92		
S-9	07/19/2000	Well inacc													26.06			2.02		
S-9	10/12/2000	 	1.45	 <0.500	 -0 F00	 <0.500	 -0.F0								26.06	22.24		3.82		
S-9	01/09/2001	<50.0 	1.45	< 0.500	< 0.500	< 0.500	<2.50								26.06	22.52		3.54		
S-9 S-9	04/06/2001 07/25/2001	Well inacc													26.06 26.06	23.61		2.45		
S-9 S-9	08/13/2001	Well inacc													26.06					
S-9	11/01/2001		essible												26.06	21.78		4.28		
S-9	01/17/2002	<50 d	<0.50 d	<0.50 d	<0.50 d	<0.50 d		<5.0 d							26.06	21.75		4.23		
S-9	05/08/2002														26.06	20.56		5.50		
S-9	07/18/2002	<50	< 0.50	< 0.50	< 0.50	< 0.50		<5.0							34.70	20.88		13.82		
S-9	10/15/2002														34.70	21.41		13.29		
S-9	01/02/2003	<50	< 0.50	< 0.50	< 0.50	< 0.50		<5.0							34.70	21.35		13.35		
S-9	04/15/2003														34.70	21.14		13.56		
S-9	07/14/2003	<50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							34.70	20.80		13.90		
S-9	10/20/2003														34.70	21.33		13.37		
S-9	01/22/2004	<50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							34.70	20.77		13.93		
S-9	04/19/2004														34.70	20.06		14.64		
S-9	07/13/2004	< 50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							34.70	20.44		14.26		
S-9	10/28/2004														34.70	21.02		13.68		
S-9	01/17/2005	<50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							34.70	20.18		14.52		
S-9	04/14/2005														34.70	21.85		12.85		
S-9	07/28/2005	360	190	1.8	1.1	3.9		< 0.50	< 5.0	<2.0	<2.0	<2.0			34.70	21.22		13.48		
S-9	10/05/2005														34.70	20.63		14.07		
S-9	02/09/2006	<50.0	0.94	< 0.500	< 0.500	< 0.500		< 0.500							34.70	19.23		15.47		
S-9	05/15/2006														34.70	20.28		14.42		
S-9	08/23/2006	7,000	1,740	55.6	193	278		< 0.500	<10.0	< 0.500	< 0.500	< 0.500			34.70	21.31		13.39		
S-9	11/15/2006														34.70	21.79		12.91		
S-9	01/30/2007	12,000	2,200	250	480	980		< 0.50							34.70	22.08		12.62		
S-9	05/29/2007														34.70	22.22		12.48		
S-9	08/15/2007	9,800 f,g	2,400	100	410	602		<10	<100	<20	<20	<20			34.70	22.43		12.27		

							MTBE	MTBE								Depth to	SPH	GW		
Well ID	Date	TPHg	\boldsymbol{B}	T	E	\boldsymbol{X}	8020	8260	TBA	DIPE	ETBE	TAME	EDC	EDB	TOC	Water	Thickness	Elevation	DO	ORP
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)
S-9	11/28/2007														34.70	22.75		11.95		
S-9	02/08/2008	69 f	2.2	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	34.70	22.31		12.39		
S-9	05/08/2008														34.70	22.49		12.21		
S-9	08/14/2008	<50	< 0.50	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	34.70	22.70		12.00		
S-9	11/11/2008	<50 i	2.4 i	<1.0 i	<1.0 i	<1.0 i		<1.0 i					<0.50 i	<1.0 i	34.70	22.90		11.80	1.1	92
S-9	11/11/2008	550 j	74 j	12 j	22 j	55.3 j									34.70	22.90		11.80	3.6	98
S-9	12/18/2008	1,500	280	43	71	182									34.34	22.81		11.53		
S-9	01/05/2009	1,000	230	24	45	64									34.34	22.75		11.59		
S-9	01/15/2009	2,100	560	75	100	245									34.34	22.37		11.97		
S-9	02/12/2009	500	120	19	26	50									34.34	22.61		11.73		
S-9	03/12/2009	810	200	30	50	110									34.34	22.22		12.12		
S-9	04/09/2009	2,300	450	60	110	260									34.34	22.12		12.22	0.65	79
S-9	05/18/2009	1,500	200	35	61	180									34.34	22.09		12.25	2.71	173
S-9	07/23/2009	1,700	430	49	110	190									34.34	22.48		11.86	0.21	346
S-9	10/01/2009	1,200	180	12	58	93									34.34	22.84		11.50	1.37	146
S-9	11/09/2009	1,400	260	21	67	81									34.34	22.63		11.71	0.42	
S-9	12/01/2009	1,100	110	11	26	59									34.34	22.44		11.90	1.09	133
S-9	01/28/2010	860	130	9.3	38	79									34.34	22.35		11.99	1.95	
S-9	05/20/2010	1,900	340	27	100	210									34.34	22.40		11.94	0.17	138
S-9	06/22/2010	1,400	240	30	65	130									34.34	22.64		11.70	2.16	577
S-9	08/31/2010	760	130	13	54	110		<1.0	<10	< 2.0	< 2.0	< 2.0			34.34	22.92		11.42	1.53	415
S-9	12/29/2010	290	55	3.3	18	41									34.34	22.62		11.72	1.64	163
S-9	02/01/2011	640	99	7.8	38	72									34.34	21.88		12.46	1.34	0
S-9	04/25/2011	590	120	9.1	29	77									34.34	20.34		14.00	0.62	98
S-9	07/28/2011	1,700	280	47	88	230		<1.0	<10	<1.0	<1.0	<1.0			34.34	20.10		14.24	2.17	73
S-9	10/28/2011	1,900	370	32	110	260									34.34	20.54		13.80	2.18	122
S-9	05/07/2012	970	200	14	46	100		<2.5	< 50	<2.5	<2.5	<2.5			34.34	20.49		13.85	0.91	78
S-9	12/11/2012	610	160	22	32	95									34.34	22.28		12.06	1.28/1.53	93/76
S-9	05/02/2013	1,400	230	53	65	160		<2.5	< 50	<2.5	<2.5	<2.5			34.34	24.36		9.98		
S-9	11/07/2013	1,200	150	15	32	84									34.34	24.92		9.42		
S-9	04/21/2014	1,100	120	25	33	83		<1.3	<25	<1.3	<1.3	<1.3			34.34	24.90		9.44		
S-10	12/22/1994	420	27	8.0	18	45									28.04	25.84		2.20		
S-10	04/20/1995	820	49	3.7	97	52									28.04	24.92		3.12		
S-10	10/04/1995	240	6.5	1.1	16	12									28.04	25.47		2.57		
S-10	01/03/1996	1,100	27	4.9	110	70									28.04	25.47		2.44		
		530	19		82	52	<5.0									25.27		2.44		
S-10	04/11/1996 07/11/1996	570	19 16	1.6 3.2	53	52 53	<2.5								28.04 28.04	25.46		2.77		
S-10	10/02/1996	270	8.2	0.77		23	3.3									25.46		2.23		
S-10					24 16										28.04					
S-10	01/22/1997	160 530	4.8 5.7	0.73 0.70	16 29	11 69	<2.5 <2.5								28.04	24.74 24.50		3.30 3.54		
S-10	07/21/1997														28.04					
S-10	01/22/1998	1,500	15	< 5.0	88	130	<25								28.04	24.44		3.60		

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GROUNDWATER DATA FORMER SHELL SERVICE STATION 461 8TH STREET, OAKLAND, CALIFORNIA

W HTD	ъ.	TDII	D.	T		**	MTBE	MTBE	TD 4	DIDE	EÆDE	T414T	ED.C	EDD	TO 6	Depth to	SPH	GW	D.O.	OPP
Well ID	Date	TPHg (μg/L)	B (μg/L)	T (μg/L)	E (μg/L)	X (μg/L)	8020 (μg/L)	8260 (μg/L)	TBA (μg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)	EDC (μg/L)	EDB (µg/L)	TOC (ft MSL)	Water (ft TOC)	Thickness (ft)	Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-10	07/08/1998	530	4.8	1.1	47	51	<2.5								28.04	22.36		5.68		
S-10	10/26/1998														28.04	22.81		5.23		
S-10	01/28/1999	630	4.6	0.98	< 0.50	59	<2.5								28.04	23.82		4.22		
S-10	04/23/1999														28.04	22.96		5.08		
S-10	07/29/1999	728	3.4	<1.00	41.8	38.0	<10.0								28.04	22.63		5.41		
S-10	11/01/1999														28.04	23.02		5.02		
S-10	01/07/2000	870	8.5	1.3	110	110	<2.5								28.04	23.33		4.71		
S-10	04/11/2000														28.04	22.64		5.40		
S-10	07/19/2000	612	3.75	< 0.500	41.6	43.6	<2.50								28.04	23.04		5.00		
S-10	10/12/2000														28.04	23.92		4.12		
S-10	01/09/2001	647	7.62	1.01	66.2	42.4	<2.50								28.04	24.13		3.91		
S-10	04/06/2001														28.04	25.37		2.67		
S-10	07/25/2001	340	1.5	< 0.50	42	19		<5.0							28.04	25.35		2.69		
S-10	11/01/2001			.0.50.1											28.04	23.22		4.82		
S-10	01/17/2002	1,100 d	3.5 d	<0.50 d	55 d	46 d		<5.0 d							28.04	22.72		5.32		
S-10	05/08/2002	 750	1.0	 -0.F0	40	26		 -E 0							28.04	22.35 22.05		5.69		
S-10 S-10	07/18/2002 10/15/2002		1.8	<0.50	42			<5.0							36.35 36.35	22.03		14.30 13.84		
S-10 S-10	01/02/2003	440	1.8	<0.50	14	24		<5.0							36.35	22.51		13.85		
S-10	04/15/2003	440	1.0	~0.50 											36.35	22.32		14.03		
S-10	07/14/2003	210	0.86	< 0.50	13	12		<0.50							36.35	21.99		14.36		
S-10	10/20/2003														36.35	22.53		13.82		
S-10	01/22/2004	280	0.88	< 0.50	10	11		< 0.50							36.35	22.02		14.33		
S-10	04/19/2004														36.35	21.43		14.92		
S-10	07/13/2004	770	1.5	< 0.50	70	42		< 0.50							36.35	21.68		14.67		
S-10	10/28/2004														36.35	22.37		13.98		
S-10	01/17/2005	1,100	1.5	< 0.50	73	51		< 0.50							36.35	21.45		14.90		
S-10	04/14/2005														36.35	22.18		14.17		
S-10	07/28/2005	260	< 0.50	< 0.50	19	9.7		< 0.50	< 5.0	<2.0	<2.0	<2.0			36.35	22.25		14.10		
S-10	10/05/2005														36.35	21.70		14.65		
S-10	02/09/2006	630	< 0.500	< 0.500	13.8	13.8		< 0.500							36.35	20.37		15.98		
S-10	05/15/2006														36.35	21.31		15.04		
S-10	08/23/2006	< 50.0	< 0.500	< 0.500	14.5	3.4		< 0.500	<10.0	< 0.500	< 0.500	< 0.500			36.35	22.12		14.23		
S-10	11/15/2006														36.35	22.68		13.67		
S-10	01/30/2007	120	< 0.50	< 0.50	7.0	3.3		< 0.50							36.35	23.09		13.26		
S-10	05/29/2007														36.35	23.20		13.15		
S-10	08/15/2007	64 f,g	0.15 h	<1.0	1.4	0.72 h		<1.0	<10	<2.0	<2.0	<2.0			36.35	23.48		12.87		
S-10	11/28/2007														36.35	23.82		12.53		
S-10	02/08/2008	61 f	< 0.50	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	36.35	23.31		13.04		
S-10	05/08/2008														36.35	23.55		12.80		
S-10	08/14/2008	58	< 0.50	<1.0	2.7	<1.0		<1.0					< 0.50	<1.0	36.35	23.75		12.60		
S-10	11/11/2008														36.35	23.08		13.27		

							MTBE	MTBE								Depth to	SPH	GW		
Well ID	Date	TPHg	В	T	E	\boldsymbol{X}	8020	8260	TBA	DIPE	ETBE	TAME	EDC	EDB	TOC	Water	Thickness	Elevation	DO	ORP
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)
S-10	12/18/2008	<50	< 0.50	<1.0	<1.0	<1.0									36.35	24.00		12.35		
S-10	01/05/2009	<50	< 0.50	<1.0	<1.0	<1.0									36.35	23.87		12.48		
S-10	01/15/2009	<50	< 0.50	<1.0	1.1	<1.0									36.35	23.66		12.69		
S-10	02/12/2009	56	< 0.50	<1.0	3.4	<1.0									36.35	23.96		12.39		
S-10	03/12/2009	53	< 0.50	<1.0	4.9	<1.0									36.35	23.44		12.91		
S-10	04/09/2009														36.35	23.26		13.09		
S-10	07/23/2009	66	< 0.50	<1.0	5.7	<1.0									36.35	23.56		12.79	0.06	112
S-10	10/01/2009	76	< 0.50	<1.0	4.6	<1.0									36.35	23.80		12.55	1.26	206
S-10	01/28/2010	100	< 0.50	<1.0	3.6	<1.0									36.35	23.30		13.05		
S-10	05/20/2010	52	< 0.50	<1.0	1.9	<1.0									36.35	24.04		12.31	0.68	59
S-10	08/31/2010	<50	0.69	<1.0	1.4	<1.0		<1.0	<10	<2.0	<2.0	<2.0			36.35	24.24		12.11	0.51	-3
S-10	12/29/2010	95	< 0.50	<1.0	3.4	1.4									36.35	23.89		12.46	0.43	87
S-10	02/01/2011	69	< 0.50	< 0.50	2.2	<1.0									36.35	23.25		13.10	2.08	117
S-10	04/25/2011	55	0.51	< 0.50	2.9	<1.0									36.35	21.87		14.48	1.32	21
S-10	07/28/2011	<50	< 0.50	<1.0	0.92	<1.0		<1.0	<10	<1.0	<1.0	<1.0			36.35	21.39		14.96	0.32	227
S-10	10/28/2011	52	< 0.50	< 0.50	2.7	<1.0									36.35	21.68		14.67	2.68	327
S-10	05/07/2012	50	0.84	< 0.50	1.5	<1.0		< 0.50	<10	< 0.50	< 0.50	< 0.50			36.35	22.00		14.35	2.51	220
S-10	05/02/2013	100	< 0.50	< 0.50	0.77	<1.0		< 0.50	<10	< 0.50	< 0.50	< 0.50			36.35	25.53		10.82		
S-10	04/21/2014	180	<0.50	<0.50	0.71	<1.0		< 0.50	<10	<0.50	<0.50	<0.50			36.35	26.20		10.15		
C 10	12/17/2007														26.44	24 50		11.07		
S-12	12/17/2007	 EE 6	 <0.F0			 <1.0							 <0.E0		36.44	24.58		11.86		
S-12 S-12	02/08/2008 05/08/2008	55 f <50 f	<0.50 <0.50	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0		<1.0 <1.0					<0.50 <0.50	<1.0	36.44 36.44	24.32 24.51		12.12 11.93		
		<50 i				<1.0		<1.0					<0.50	<1.0						
S-12 S-12	08/14/2008	<50 i	1.0 0.95 i	<1.0 <1.0 i	<1.0 <1.0 i	<1.0 <1.0 i		<1.0 i					<0.50 i	<1.0 <1.0 i	36.44 36.44	24.63 24.85		11.81 11.59	0.2	37
S-12 S-12	11/11/2008 11/11/2008	65 j	8.1 j	2.2 j	4.8 j	1.01 1.5 j		~1.0 I 					<0.50 I		36.44	24.85		11.59	0.2	45
S-12	12/18/2008	<50	8.3	<1.0	1.8	<1.0									36.44	24.81		11.63		45
S-12	01/05/2009	95	16	<1.0	3.2	<1.0									36.44	24.75		11.69		
S-12	01/15/2009	140	36	<1.0	12	<1.0									36.44	24.54		11.90		
S-12	02/12/2009	<50	5.0	<1.0	1.6	<1.0									36.44	24.81		11.63		
S-12	03/12/2009	<50	4.8	<1.0	1.5	<1.0									36.44	24.41		12.03		
S-12	04/09/2009	59	6.0	<1.0	1.6	<1.0									36.44	24.23		12.21	0.50	-3
S-12	07/23/2009	130	29	<1.0	13	<1.0									36.44	24.50		11.94	0.07	142
S-12	10/01/2009	130	25	<1.0	15	<1.0									36.44	24.76		11.68	0.74	135
S-12	01/28/2010	110	14	<1.0	19	<1.0									36.44	24.28		12.16		
S-12	05/20/2010	75	8.5	<1.0	7.0	<1.0									36.44	24.71		11.73	0.14	740
S-12	08/31/2010	<50	0.56	<1.0	<1.0	<1.0									36.44	25.08		11.36	1.18	180
S-12	12/29/2010	<50	0.98	<1.0	<1.0	<1.0									36.44	24.60		11.84	1.27	121
S-12	02/01/2011	<50	1.8	< 0.50	2.8	<1.0									36.44	23.94		12.50	2.06	-2
S-12	04/25/2011	<50	0.82	< 0.50	1.7	<1.0									36.44	22.53		13.91	0.28	196
S-12	07/28/2011	<50	0.96	< 0.50	2.8	<1.0									36.44	22.05		14.39	3.01	163
S-12	10/28/2011	99	15	< 0.50	14	<1.0									36.44	22.50		13.94	3.67	91
	, ,																			

Well ID	Date	ТРНд	В	T	E	X	MTBE 8020	MTBE 8260	TBA	DIPE	ETBE	TAME	EDC	EDB	тос	Depth to Water	SPH Thickness	GW Elevation	DO	ORP
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)
S-12	05/07/2012	180	25	< 0.50	19	1.0									36.44	22.50		13.94	0.88	66
S-12	05/02/2013	190	1.2	0.64	0.71	3.8									36.44	26.48		9.96		
S-12	04/21/2014	1,100	5.0	3.3	9.5	38									36.44	27.08		9.36		
S-13	12/17/2007														35.16	23.33		11.83		
S-13	02/08/2008	14,000 f	1,900	1,300	280	3,000		<10					< 5.0	<10	35.16	23.01		12.15		
S-13	05/08/2008	18,000 f	2,800	3,400	550	3,500		<10					< 5.0	<10	35.16	23.31		11.85		
S-13	08/14/2008	16,000	2,400	3,100	580	3,100		<20					<10	<20	35.16	23.31		11.85		
S-13	11/11/2008	16,000 i	2,400 i	2,800 i	270 i	2,500 i		<50 i					<25 i	<50 i	35.16	23.60		11.56	0.8	-48
S-13	11/11/2008	4,400 j	560 j	630 j	88 j	530 j									35.16	23.60		11.56	1.2	-60
S-13	12/18/2008	3,900	530	560	76	510									35.05	23.61		11.44		
S-13	01/05/2009	8,200	700	670	67	1,000									35.05	23.54		11.51		
S-13	01/15/2009	5,400	610	610	48	950									35.05	23.10		11.95		
S-13	02/12/2009	6,300	800	1,000	110	870									35.05	22.36		12.69		
S-13	03/12/2009	14,000	1,700	2,300	190	2,400									35.05	23.20		11.85		
S-13	04/09/2009	35,000	510	7,800	1,000	4,300									35.05	23.02		12.03	25.9	433
S-13	05/18/2009	35,000	820	7,000	1,100	6,600									35.05	23.07		11.98	5.21	83
S-13	07/23/2009	18,000	1,800	3,000	480	2,500									35.05	23.51		11.54	1.23	148
S-13	10/01/2009	2,000	330	87	33	5.2									35.05	23.61		11.44	1.23	413
S-13	11/09/2009	15,000	1,100	1,500	300	1,800									35.05	23.41		11.64	0.71	
S-13	12/01/2009	1,600	210	190	34	36									35.05	23.15		11.90	16.3	231
S-13	01/28/2010	5,900	370	930	100	680									35.05	22.94		12.11	2.18	
S-13	05/20/2010	400	35	120	9.5	52									35.05	23.36		11.69	0.31	211
S-13	06/22/2010	16,000	570	3,000	260	2,000									35.05	23.20		11.85	1.10	412
S-13	08/31/2010	3,000	140	490	83	540									35.05	24.00		11.05	0.90	400
S-13	12/29/2010	8,700	600	1,700	260	1,700									35.05	23.48		11.57	0.69	231
S-13	02/01/2011	2,100	170	390	75	410									35.05	22.71		12.34	1.10	248
S-13	04/25/2011	6,000	600	1,800	270	1,300									35.05	21.15		13.90	0.19	69
S-13	07/28/2011	3,700	320	430	160	790									35.05	20.64		14.41	2.65	44
S-13	10/28/2011	8,100	600	830	380	1,700									35.05	21.47		13.58	3.67	1
S-13	05/07/2012	5,100	540	670	320	1,100									35.05	21.35		13.70	0.60	-176
S-13	12/11/2012	5,900	420	580	260	950									35.05	22.91		12.14	1.07/0.80	-70/-63
S-13	05/02/2013	1,300	130	95	49	85									35.05	25.24		9.81		
S-13	11/07/2013														35.05	k	k	k		
S-13	03/14/2014														35.05	26.22	0.25	9.03		
S-13	04/21/2014														35.05	26.09	0.39	9.27		
S-14	12/17/2007														34.94	22.68		12.26		
S-14	02/08/2008	5,300 f	380	300	34	970		<10					< 5.0	<10	34.94	22.82		12.12		
S-14	05/08/2008	4,300 f	750	270	30	520		<10					< 5.0	<10	34.94	22.41		12.53		
S-14	Well destroyed																			

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GROUNDWATER DATA FORMER SHELL SERVICE STATION 461 8TH STREET, OAKLAND, CALIFORNIA

							MTBE	MTBE								Depth to	SPH	GW		
Well ID	Date	ТРНд	В	T	E	\boldsymbol{X}	8020	8260	TBA	DIPE	ETBE	TAME	EDC	EDB	TOC	Water	Thickness	Elevation	DO	ORP
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)
S-14R	11/07/2008														35.19	22.91		12.28		
S-14R	11/11/2008	8,500 i	680 i	270 i	<25 i	1,110 i									35.19	23.13		12.06	0.60	115
S-14R	11/11/2008	4,300 j	270 j	190 j	43 j	470 j									35.19	23.13		12.06	1.5	116
S-14R	12/18/2008	7,800	530	640	79	1,010									34.95	22.80		12.15		
S-14R	01/05/2009	2,100	89	86	19	140									34.95	22.80		12.15		
S-14R	01/15/2009	4,800	430	540	83	730									34.95	22.57		12.38		
S-14R	02/12/2009	1,000	40	29	7.3	55									34.95	22.89		12.06		
S-14R	03/12/2009	350	22	18	3.3	29									34.95	22.39		12.56		
S-14R	04/09/2009	2,300	230	240	47	250									34.95	22.35		12.60	0.30	430
S-14R	05/18/2009	750	51	48	17	67									34.95	22.20		12.75	5.63	93
S-14R	07/23/2009	600	81	57	19	47									34.95	22.56		12.39	0.05	246
S-14R	10/01/2009	230	12	10	5.3	23									34.95	22.90		12.05	2.22	201
S-14R	11/09/2009	330	47	21	11	39									34.95	22.68		12.27	0.75	
S-14R	12/01/2009	420	38	27	12	39									34.95	22.62		12.33	0.45	110
S-14R	01/28/2010	270	45	27	11	32									34.95	22.38		12.57	3.75	
S-14R	05/20/2010	330	17	10	2.7	13									34.95	22.72		12.23	0.96	102
S-14R	08/31/2010	130	5.8	3.5	1.4	6.1									34.95	23.12		11.83	1.55	-13
S-14R	12/29/2010	480	56	30	13	52									34.95	22.75		12.20	0.48	375
S-14R	02/01/2011	570	56	32	20	59									34.95	22.10		12.85	0.58	143
S-14R	04/25/2011	860	100	59	41	97									34.95	20.80		14.15	0.81	-37
S-14R	07/28/2011	970	100	80	51	110									34.95	20.36		14.59	0.56	151
S-14R	10/28/2011	420	47	38	25	67									34.95	20.68		14.27	3.97	321
S-14R	05/07/2012	630	68	62	40	120									34.95	20.77		14.18	2.47	238
S-14R	05/02/2013	3,200	200	130	95	200									34.95	24.49		10.46		
S-14R	04/21/2014	3,700	190	160	99	290									34.95	24.99		9.96		
S-15	12/17/2007														35.34	23.00		12.34		
S-15	02/08/2008	55,000 f	6,700	13,000	1,100	9,800		<10					<5.0	<10	35.34	22.71		12.63		
S-15	05/08/2008	53,000 f	6,300	13,000	1,500	7,500		<200					<100	<200	35.34	22.91		12.43		
S-15	Well destroyed				1,300	7,300		~200							33.34			12.43		
5-15	wen destroyed																			
S-16	12/17/2007														36.08	23.88		12.20		
S-16	02/08/2008	6,000 f	670	730	88	1,290		< 5.0					<2.5	< 5.0	36.08	23.52		12.56		
S-16	05/08/2008	3,200 f	670	320	18	580		<10					< 5.0	<10	36.08	23.69		12.39		
S-16	Well destroyed																			
0.15	06/10/2000														25.40	22.20		12.10		
S-17	06/19/2008	21 000	1 200	1 200	160	2.050		 -E 0							35.49	23.30		12.19		
S-17	06/25/2008	21,000	1,300	1,300	160	2,850		<5.0					<2.5	<5.0	35.49	23.33		12.16		
S-17	08/14/2008	14,000	1,700	1,700	310	2,250		<10					<5.0	<10	35.49	23.50		11.99		
S-17	11/11/2008	7,200 i	1,600 i	820 i	140 i	760 i		<5.0 i					<2.5 i	<5.0 i	35.49	23.70		11.79		
S-17	11/11/2008	32,000 j	2,500 j	3,100 j	820 j	4,000 j		<25 j					<12 j	<25 j	35.49	23.70		11.79		
S-17	01/05/2009	15,000	790	700	150	1,200		<10					<5.0	<10	35.50	23.66		11.84		

Well ID	Date	ТРНg	В	T	E	X	MTBE 8020	MTBE 8260	TBA	DIPE	ETBE	TAME	EDC	EDB	тос	Depth to Water	SPH Thickness	GW Elevation	DO	ORP
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)
S-17	01/15/2009	2,300	220	170	19	300									35.50	23.37		12.13		
S-17	02/12/2009	4,700	750	200	37	23									35.50	23.66		11.84		
S-17	03/12/2009	3,300	640	370	81	290									35.50	23.24		12.26		
S-17	04/09/2009	1,300	200	110	37	100									35.50	23.20		12.30	0.69	429
S-17	05/18/2009	630	97	44	17	25									35.50	23.21		12.29	5.93	442
S-17	07/23/2009	3,900	480	410	160	480									35.50	23.70		11.80	0.15	34
S-17	10/01/2009	1,300	32	24	3.1	72									35.50	23.64		11.86	1.30	204
S-17	11/09/2009	5,300	260	330	56	500									35.50	23.52		11.98	0.18	
S-17	12/01/2009	3,300	190	210	52	240									35.50	23.41		12.09	0.95	450
S-17	01/28/2010	3,500	260	250	85	310									35.50	23.21		12.29	1.93	
S-17	05/20/2010	370	18	<1.0	<1.0	<1.0									35.50	23.65		11.85	1.31	544
S-17	08/31/2010	1,900	120	110	52	260									35.50	23.92		11.58	1.32	370
S-17	12/29/2010	2,600	200	150	91	280									35.50	23.60		11.90	1.37	131
S-17	02/01/2011	950	100	72	47	130									35.50	22.91		12.59	1.40	136
S-17	04/25/2011	2,000	150	71	77	210									35.50	21.44		14.06	0.23	82
S-17	07/28/2011	3,400	270	98	170	370									35.50	21.06		14.44	1.45	70
S-17	10/28/2011	270	58	5.3	23	28									35.50	21.51		13.99	1.19	221
S-17	05/07/2012	980	110	3.6	66	100									35.50	21.50		14.00	0.62	84
S-17	05/02/2013	570	62	20	19	49									35.50	25.49		10.01		
S-17	04/21/2014	2,500	140	120	98	310									35.50	25.91		9.59		
C 10	07/10/2000														25.04	22.04		10.10		
S-18	06/19/2008	 E0 000	2 200	 F (00	880	10.200		<10					<5.0	<10	35.04 35.04	22.94 22.92		12.10 12.12		
S-18	06/25/2008	58,000	2,200	5,600		10,200														
S-18	08/14/2008	25,000	2,500	4,500	860	5,800		<50					<25 <12 i	<50	35.04	23.08		11.96		
S-18 S-18	11/11/2008 11/11/2008	24,000 i	2,400 i	3,300 i	820 i	3,800 i		<25 i					<121 <25 j	<25 i <50 j	35.04 35.04	23.30 23.30		11.74 11.74		
S-18	01/05/2009	43,000 j 20,000	3,900 j 830	5,500 j 1,000	1,300 j 290	6,500 j 1,400		<50 j <50					<25 J	<50 J	35.04	23.16		11.74		
S-18	01/05/2009	8,200	690	790	150	1,230									35.03	22.97		12.06		
S-18	02/12/2009	13,000	1,200	1,400	330	940									35.03	23.29		11.74		
S-18	03/12/2009	52,000	5,300	9,000	1,600	10,000									35.03	22.85		12.18		
S-18	04/09/2009	Insufficien													35.03	22.79		12.10		
S-18	05/18/2009	6,700	320	1,100	200	1,000									35.03	22.81		12.24	6.51	377
S-18	07/23/2009	8,900	500	890	290	1,600									35.03	22.91		12.12	0.20	
S-18	10/01/2009	1,800	49	5.5	5.3	<5.0									35.03	23.65		11.38	6.25	557
S-18	11/09/2009	1,100	79	8.9	5.3	1.1									35.03	23.19		11.84	0.26	
S-18	12/01/2009	570	50	7.5	2.7	1.2									35.03	23.12		11.91	4.07	460
S-18	01/28/2010	1,200	170	91	18	68									35.03	22.86		12.17	1.90	
S-18	05/20/2010	3,900	500	690	79	240									35.03	23.12		11.91	1.77	169
S-18	06/22/2010	13,000	1,700	2,800	200	1,000									35.03	23.10		11.93	0.58	499
S-18	08/31/2010	6,600	970	1,100	230	1,000									35.03	23.55		11.48	1.23	258
S-18	12/29/2010	8,500	1,000	750	410	1,800									35.03	23.23		11.80	0.79	70
S-18	02/01/2011	2,100	210	190	87	180									35.03	22.52		12.51	1.13	220
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Well ID	Date	TPHg (µg/L)	Β (μg/L)	T (μg/L)	E (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-18	04/25/2011	13,000	2,100	2,000	470	2,300									35.03	21.00		14.03	0.52	85
S-18	07/28/2011	8,200	1,200	1,000	290	1,200									35.03	20.56		14.47	1.57	27
S-18	10/28/2011	9,000	1,200	480	430	1,900									35.03	21.11		13.92	1.45	147
S-18	05/07/2012	4,700	710	310	310	870									35.03	21.20		13.83	0.55	-68
S-18	05/02/2013	5,000	720	280	220	480									35.03	24.95		10.08		
S-18	04/21/2014	1,400	240	190	70	230									35.03	25.61		9.42		
S-19	11/07/2008														34.78	22.73		12.05		
S-19	11/11/2008	7,100 i	500 i	600 i	25 i	1,010 i									34.78	22.87		11.91	1.0	62
S-19	11/11/2008	2,300 j	110 j	160 j	43 j	280 j									34.78	22.87		11.91	1.3	71
S-19	12/18/2008	2,900	190	300	41	420									34.57	22.60		11.97		
S-19	01/05/2009	3,400	230	250	50	380									34.57	22.56		12.01		
S-19	01/15/2009	3,100	340	540	70	440									34.57	22.31		12.26		
S-19	02/12/2009	1,300	130	180	37	190									34.57	22.58		11.99		
S-19	03/12/2009	880	110	150	30	160									34.57	22.44		12.13	0.57	106
S-19	04/09/2009	1,300	140	190	32	190									34.57	22.02		12.55	0.57	106
S-19	05/18/2009	780	69 77	87 50	17 15	100									34.57	22.04		12.53 12.17	6.47	75
S-19	07/23/2009	400	77 160	59 170		38 120									34.57	22.40			0.06	31
S-19 S-19	10/01/2009 11/09/2009	1,500 1,600	160 140	170 160	33 41	160									34.57 34.57	22.66 22.44		11.91 12.13	0.52 0.26	301
S-19	12/01/2009	1,600	150	180	45	170									34.57	22.44		11.95	0.26	 161
S-19	01/28/2010	2,600	230	280	71	300									34.57	22.02		12.28	1.71	
S-19	05/20/2010	850	110	55	11	4.6									34.57	22.49		12.28	1.77	118
S-19	08/31/2010	580	79	92	22	50									34.57	22.86		11.71	1.02	297
S-19	12/29/2010	920	120	120	54	150									34.57	22.48		12.09	1.12	150
S-19	02/01/2011	1,800	210	270	100	320									34.57	21.78		12.79	1.08	21
S-19	04/25/2011	2,100	290	360	140	470									34.57	20.42		14.15	0.25	115
S-19	07/28/2011	2,400	240	380	140	450									34.57	20.16		14.41	1.17	80
S-19	10/28/2011	3,600	210	420	190	750									34.57	20.41		14.16	1.73	160
S-19	05/07/2012	3,400	220	480	210	880									34.57	20.51		14.06	2.54	244
S-19	12/11/2012	1,700	110	240	100	440									34.57	22.05		12.52	0.89/2.21	81/52
S-19	05/02/2013	1,500	88	89	55	160									34.57	24.15		10.42		
S-19	11/07/2013	170,000	1,200	7,300	3,800	22,000									34.57	k	k	k		
S-19	04/21/2014	32,000	580	1,400	940	4,300									34.57	24.95		9.62		
S-20	11/07/2008														34.50	22.80		11.70		
S-20	11/11/2008	13,000 i	1,300 i	1,600 i	80 i	1,920 i									34.50	22.90		11.60	0.8	-39
S-20	11/11/2008	16,000 j	1,100 j	1,800 j	220 j	1,930 j									34.50	22.90		11.60	2.6	-64
S-20	01/05/2009	17,000	1,500	1,700	320	1,900									34.50	22.78		11.72		
S-20	02/12/2009	11,000	1,300	1,400	230	1,600									34.50	22.80		11.70	2.6	-64
S-20	03/12/2009	19,000	2,700	3,200	390	3,100									34.50	22.40		12.10		
S-20	04/09/2009	8,200	80	480	220	490									34.50	22.90		11.60	13.80	578

*** ** **	.	TDI.	-		-	**	MTBE	MTBE	TTD 4	DIDE	EZDE	T41 (T	ED C	EDB	TO 6	Depth to	SPH	GW	D O	onn
Well ID	Date	TPHg (μg/L)	B (μg/L)	T (μg/L)	E (μg/L)	X (μg/L)	8020 (μg/L)	8260 (μg/L)	TBA (μg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (µg/L)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Water (ft TOC)	Thickness (ft)	Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-20	05/18/2009	21,000	970	1,500	630	4,800									34.50	22.42		12.08	4.58	197
S-20	07/23/2009	41,000	4,900	2,900	990	7,300									34.50	22.73		11.77	0.27	419
S-20	10/01/2009	1,800	140	39	33	39									34.50	23.00		11.50	0.85	533
S-20	11/09/2009	21,000	1,600	740	300	2,500									34.50	22.72		11.78	1.67	
S-20	12/01/2009	12,000	1,100	450	160	1,200									34.50	22.61		11.89	1.38	347
S-20	01/28/2010	20,000	2,000	1,600	260	2,000									34.50	22.51		11.99	4.40	
S-20	05/20/2010	4,300	1,100	110	26	61									34.50	22.90		11.60	8.96	555
S-20	06/22/2010	7,100	1,300	550	120	550									34.50	23.19		11.31	11.64	637
S-20	08/31/2010	9,600	1,800	1,400	230	580									34.50	23.13		11.37	0.94	529
S-20	12/29/2010	19,000	2,000	3,100	860	3,200									34.50	22.72		11.78	0.92	193
S-20	02/01/2011	26,000	3,900	7,100	1,300	5,800									34.50	22.04		12.46	1.03	390
S-20	04/25/2011	41,000	6,600	11,000	2,000	9,800									34.50	20.60		13.90	0.43	156
S-20	07/28/2011	34,000	4,200	5,300	1,400	6,300									34.50	20.30		14.20	1.25	-15
S-20	10/28/2011	17,000	1,500	1,900	1,000	3,400									34.50	20.78		13.72	1.28	431
S-20	05/07/2012	9,900	760	1,200	790	2,000									34.50	20.54		13.96	1.92	-106
S-20	12/11/2012	9,700	630	1,000	720	1,500									34.50	22.29		12.21	0.82/1.67	-11/-43
S-20	05/02/2013	4,500	380	220	240	300									34.50	24.50		10.00		
S-20	11/07/2013	4,000	420	290	60	330									34.50	25.24		9.26		
S-20	04/21/2014	3,800	480	350	50	350									34.50	25.15		9.35		
S-21A	11/07/2008														35.81	23.73		12.08		
S-21A	11/11/2008	96,000 i	6,100 i	11,000 i	1,700 i	10,500 i									35.81	23.86		11.95	1.6	-42
S-21A	11/11/2008	87,000 j	6,300 j	13,000 j	1,700 j	10,300 j									35.81	23.86		11.95	1.8	-51
S-21A	12/18/2008	17,000	3,700	1,200	170	47									35.80	23.91		11.89		
S-21A	01/05/2009	28,000	3,100	2,900	450	1,100									35.80	23.78		12.02		
S-21A	01/15/2009	9,700	2,100	290	45	<25									35.80	23.53		12.27		
S-21A	02/12/2009	19,000	3,100	2,500	330	500									35.80	23.83		11.97		
S-21A	03/12/2009	31,000	2,600	3,800	810	3,700									35.80	23.35		12.45		
S-21A	04/09/2009	7,800	700	750	130	<25									35.80	24.00		11.80	0.91	304
S-21A	05/18/2009	15,000	1,800	2,200	390	1,900									35.80	23.46		12.34	2.37	529
S-21A	07/23/2009	51,000	4,800	7,100	1,100	7,000									35.80	23.85		11.95	0.14	-3
S-21A	10/01/2009	18,000	2,300	2,200	310	2,400									35.80	24.06		11.74	7.92	575
S-21A	11/09/2009	41,000	3,500	5,800	600	4,800									35.80	23.73		12.07	0.34	
S-21A	12/01/2009	43,000	3,100	6,700	640	4,900									35.80	23.60		12.20	2.55	350
S-21A	01/28/2010	65,000	3,900	9,900	970	6,600									35.80	23.54		12.26	1.43	
S-21A	05/20/2010	6,000	670	760	110	150									35.80	23.92		11.88	1.37	541
S-21A	06/22/2010	16,000	690	2,000	370	2,300									35.80	23.87		11.93	2.33	439
S-21A	08/31/2010	5,000	230	420	190	990									35.80	24.13		11.67	0.73	392
S-21A	12/29/2010	5,100	500	430	230	810									35.80	23.84		11.96	0.95	464
S-21A	02/01/2011	9,200	840	750	370	1,300									35.80	23.18		12.62	0.84	110
S-21A	04/25/2011	22,000	3,800	4,000	960	4,800									35.80	21.71		14.09	0.36	336
S-21A	07/28/2011	27,000	3,400	3,600	1,000	4,300									35.80	21.48		14.32	1.02	223

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (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)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-21A	10/28/2011	20,000	2,400	3,000	840	3,600									35.80	21.65		14.15	2.06	213
S-21A	05/07/2012	12,000	2,200	1,900	510	2,100									35.80	21.90		13.90	1.01	107
S-21A	12/11/2012	13,000	3,300	2,200	610	1,300									35.80	22.60		13.20	1.35/1.49	82/80
S-21A	05/02/2013	6,800	1,000	470	270	480									35.80	25.48		10.32		
S-21A	11/07/2013	32,000	4,100	3,000	940	2,900									35.80	26.28		9.52		
S-21A	04/21/2014	Insufficie	nt water												35.80	26.29		9.51		
S-21B	11/07/2008														35.79	23.68		12.11		
S-21B	11/11/2008	3,200 i	49 i	300 i	93 i	510 i									35.79	23.80		11.99	0.4	-108
S-21B	11/11/2008	7,500 j	67 j	470 j	150 j	960 j									35.79	23.80		11.99	5.6	-135
S-21B	12/18/2008	5,300	36	310	120	770									35.76	23.72		12.04		
S-21B	01/05/2009	5,400	35	200	93	600									35.76	23.70		12.06		
S-21B	01/15/2009	3,300	30	150	78	470									35.76	23.43		12.33		
S-21B	02/12/2009	2,800	12	100	69	450									35.76	23.81		11.95		
S-21B	03/12/2009	2,300	9.4	72	50	320									35.76	23.32		12.44		
S-21B	04/09/2009	890	14	55	19	140									35.76	23.20		12.56	0.56	453
S-21B	05/18/2009	390	6.8	14	12	27									35.76	23.24		12.52	1.62	458
S-21B	06/17/2009														35.76	23.40		12.36		
S-21B	07/23/2009	920	5.0	17	28	120									35.76	23.52		12.24	0.26	37
S-21B	10/01/2009	820	2.6	10	17	89									35.76	23.95		11.81	0.96	353
S-21B	01/28/2010	810	11	6.2	10	51									35.76	23.30		12.46		
S-21B	05/20/2010	120	1.4	2.6	2.0	2.7									35.76	23.46		12.30	1.63	206
S-21B	08/31/2010	500	0.81	3.4	6.9	32									35.76	24.04		11.72	0.72	45
S-21B	12/29/2010	310	< 0.50	1.9	4.5	21									35.76	23.59		12.17	0.40	191
S-21B	02/01/2011	270	< 0.50	2.0	4.0	16									35.76	23.08		12.68	0.51	10
S-21B	04/25/2011	250	< 0.50	1.9	4.6	16									35.76	21.86		13.90	1.43	72
S-21B	07/28/2011	270	< 0.50	0.84	3.0	11									35.76	21.32		14.44	2.86	127
S-21B	10/28/2011	220	< 0.50	0.53	2.3	9.2									35.76	21.52		14.24	0.96	153
S-21B	05/07/2012	170	< 0.50	0.62	1.5	7.6									35.76	22.04		13.72	0.75	100
S-21B	05/02/2013	< 50	< 0.50	< 0.50	< 0.50	<1.0									35.76	25.59		10.17		
S-21B	04/21/2014	52	1.7	2.4	0.80	4.7									35.76	26.14		9.62		
S-22A	11/07/2008														35.08	22.91		12.17		
S-22A	11/11/2008	84,000 i	8,500 i	11,000 i	2,200 i	13,900 i									35.08	23.15		11.93	1.0	117
S-22A	11/11/2008	85,000 j	7,600 j	10,000 j	2,500 j	12,400 j									35.08	23.15		11.93	1.6	100
S-22A	12/18/2008	42,000	6,300	6,600	1,200	4,400									35.06	23.03		12.03		
S-22A	01/05/2009	56,000	4,500	5,300	1,200	6,400									35.06	23.03		12.03		
S-22A	01/15/2009	25,000	5,900	4,400	740	1,570									35.06	22.84		12.22		
S-22A	02/12/2009	43,000	6,700	6,600	1,200	5,000									35.06	23.15		11.91		
S-22A	03/12/2009	35,000	4,600	4,600	980	4,600									35.06	22.65		12.41		
S-22A	04/09/2009	22,000	120	1,900	680	3,400									35.06	22.88		12.18	8.41	556
S-22A	05/18/2009	25,000	4,700	1,300	590	3,700									35.06	22.83		12.23	2.46	539

Well ID	Date	TPHg (µg/L)	B (µg/L)	Τ (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)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-22A	07/23/2009	40,000	5,100	4,800	700	4,900									35.06	23.01		12.05	0.18	167
S-22A	10/01/2009	12,000	1,400	600	88	500									35.06	23.06		12.00	4.08	523
S-22A	11/09/2009	18,000	2,700	2,000	190	1,300									35.06	23.14		11.92	1.74	
S-22A	12/01/2009	24,000	2,300	2,300	270	2,000									35.06	23.10		11.96	1.06	393
S-22A	01/28/2010	44,000	3,600	5,000	620	4,300									35.06	22.92		12.14	1.40	
S-22A	05/20/2010	3,100	38	<10	<10	<10									35.06	23.22		11.84	0.48	423
S-22A	06/22/2010	2,400	110	15	4.3	6.6									35.06	23.51		11.55	6.10	542
S-22A	08/31/2010	5,000	690	600	78	350									35.06	23.52		11.54	1.03	553
S-22A	12/29/2010	13,000	1,300	1,800	490	2,100									35.06	23.17		11.89	0.70	476
S-22A	02/01/2011	13,000	1,800	3,100	640	2,800									35.06	22.45		12.61	0.89	453
S-22A	04/25/2011	23,000	2,600	5,500	1,200	6,200									35.06	21.37		13.69	0.40	506
S-22A	07/28/2011	Well inacc		4.700	1.600	0.100									35.06	20.00		14.00	1.00	242
S-22A	10/28/2011	31,000	1,800	4,700	1,600	8,100									35.06	20.98		14.08	1.33	342
S-22A	05/07/2012	40,000	2,000	7,200	2,000	12,000									35.06	20.96		14.10	2.50	230
S-22A	12/11/2012	54,000	1,800	8,900	2,400	14,000									35.06	23.42		11.64	0.99/1.96	-14/-21
S-22A	05/02/2013	53,000	1,800	6,800	2,200	11,000									35.06	24.71		10.35		
S-22A S-22A	11/07/2013	Well inacc													35.06 35.06					
5-22A	04/21/2014	vven macc	essible												33.00					
S-22B	11/07/2008														35.15	23.06		12.09		
S-22B	11/11/2008	<50 i	<0.50 i	<1.0 i	<1.0 i	1.2 i									35.15	23.20		11.95	0.9	92
S-22B	11/11/2008	360 j	3.3 j	12 j	5.8 j	38 j									35.15	23.20		11.95	1.6	90
S-22B	12/18/2008	150	2.9	6.1	2.9	17.5									35.24	23.26		11.98		
S-22B	01/05/2009	110	1.9	5.0	2.6	11									35.24	28.12		7.12		
S-22B	01/15/2009	59	1.3	1.9	1.6	<1.0									35.24	22.90		12.34		
S-22B	02/12/2009	290	11	6.8	7.9	19									35.24	23.02		12.22		
S-22B	03/12/2009	390	4.4	4.6	3.8	12									35.24	22.86		12.38		
S-22B	04/09/2009	280	5.3	2.5	4.0	6.8									35.24	22.62		12.62	2.24	164
S-22B	05/18/2009	170	3.7	2.9	2.4	8.6									35.24	22.62		12.62	1.42	-171
S-22B	07/23/2009	160	8.9	5.7	3.8	12									35.24	22.65		12.59	0.15	28
S-22B	10/01/2009	300	2.4	1.0	1.2	<1.0									35.24	23.18		12.06	2.62	173
S-22B	01/28/2010	< 50	< 0.50	<1.0	<1.0	<1.0									35.24	22.73		12.51		
S-22B	05/20/2010	230	< 0.50	<1.0	<1.0	<1.0									35.24	22.88		12.36	6.14	584
S-22B	08/31/2010	< 50	0.57	<1.0	<1.0	<1.0									35.24	23.51		11.73	0.92	377
S-22B	12/29/2010	<50	< 0.50	<1.0	<1.0	<1.0									35.24	23.04		12.20	1.07	391
S-22B	02/01/2011	<50	0.55	< 0.50	< 0.50	<1.0									35.24	22.70		12.54	1.07	-3
S-22B	04/25/2011	<50	< 0.50	0.62	< 0.50	1.1									35.24	21.38		13.86	1.37	416
S-22B	07/28/2011	Well inacc													35.24					
S-22B	10/28/2011	<50	< 0.50	<1.0	<1.0	<1.0									35.24	20.62		14.62	4.83	-12
S-22B	05/07/2012	<50	1.4	< 0.50	< 0.50	<1.0									35.24	21.08		14.16	2.84	127
S-22B	05/02/2013	<50	< 0.50	< 0.50	< 0.50	<1.0									35.24	24.68		10.56		
S-22B	04/21/2014	Well inacc	essible												35.24					

TABLE 1 Page 21 of 22

GROUNDWATER DATA FORMER SHELL SERVICE STATION 461 8TH 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)	EDC (μg/L)	EDB (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-23	11/07/2008														35.77	23.28		12.49		
S-23	11/11/2008	8,800 i	640 i	610 i	82 i	1,260 i									35.77	23.58		12.19		
S-23	11/11/2008	6,400 j	520 j	640 j	34 j	760 j									35.77	23.58		12.19		
S-23	01/05/2009	830	63	98	14	58									35.75	23.51		12.24		
S-23	02/12/2009	3,400	160	320	55	430									35.75	23.62		12.13		
S-23	03/12/2009	4,600	210	460	71	610									35.75	23.03		12.72		
S-23	04/09/2009	2,700	180	95	33	<5.0									35.75	22.98		12.77	1.24	567
S-23	05/18/2009	3,000	350	440	79	300									35.75	23.18		12.57	19.77	503
S-23	07/23/2009	2,900	180	400	67	340									35.75	23.48		12.27	0.21	133
S-23	10/01/2009	790	40	24	5.4	<1.0									35.75	23.82		11.93	8.64	428
S-23	11/09/2009	3,200	84	330	90	400									35.75	23.51		12.24	0.28	
S-23	12/01/2009	1,800	47	180	50	190									35.75	23.31		12.44	2.49	472
S-23	01/28/2010	3,000	100	450	110	650									35.75	23.25		12.50	1.74	
S-23	05/20/2010	900	8.2	<5.0	<5.0	<5.0									35.75	23.80		11.95	3.76	607
S-23	06/22/2010	640	11	22	9.0	11									35.75	24.40		11.35	12.96	572
S-23	08/31/2010	710	14	45	34	110									35.75	23.95		11.80	1.25	322
S-23	12/29/2010	1,300	45	82	56	240									35.75	23.61		12.14	1.39	313
S-23	02/01/2011	1,300	51	110	72	270									35.75	22.92		12.83	1.30	107
S-23	04/25/2011	1,300	53	110	81	400									35.75	21.62		14.13	0.96	321
S-23	07/28/2011	1,400	43	79	74	320									35.75	21.28		14.47	0.92	209
S-23	10/28/2011	1,600	43	83	92	370									35.75	21.50		14.25	1.82	161
S-23	05/07/2012	870	50	40	66	220									35.75	21.59		14.16	2.20	254
S-23	05/02/2013	540	24	15	5.6	25									35.75	25.04		10.71		
S-23	04/21/2014	1,700	110	47	8.4	95									35.75	25.67		10.08		
AC 1	12 /17 /2007														35.33	22.91		12.42		
AS-1	12/17/2007	120.6	1.1	2.4		 E 4		 <1.0					 <0.50							
AS-1	02/08/2008	130 f	1.1	3.4	<1.0	5.4		<1.0					<0.50	<1.0	35.33	22.62		12.71		
AS-1	05/08/2008	<50 f	< 0.50	<1.0	<1.0	<1.0		<1.0					<0.50	<1.0	35.33	27.78		7.55		
OW-1	04/09/2009	Well dry																		
OW-1	05/18/2009	Well dry																		

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to July 25, 2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to July 25, 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

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

							MTBE	MTBE								Depth to	SPH	GW		
Well ID	Date	TPHg	В	T	\boldsymbol{E}	\boldsymbol{X}	8020	8260	TBA	DIPE	ETBE	TAME	EDC	EDB	TOC	Water	Thickness	Elevation	DO	ORP
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)

EDB = 1,2-Dibromoethane 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 (pre-purge/post purge reading)

ORP = Oxygen redox potential (pre-purge/post purge reading)

 μ g/L = Micrograms per liter

ft = Feet

MSL = Mean sea level

mg/L = Milligrams per liter

mV = Millivolts

<x = Not detected at reporting limit x

--- = Not analyzed or available

(D) = Duplicate sample

- a = Included in xylenes analysis
- b = Analyzed outside of EPA recommended holding time
- c = Depth to water measured from TOC; elevation unknown.
- d = Grab sampled
- e = Casing broken; TOC unknown.
- f = Analyzed by EPA Method 8015B (M)
- g = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
- h = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
- i = Pre-purge sample
- j = Post-purge sample
- k = SPH present; well purged prior to gauging with interface probe

When SPHs are present, groundwater elevation is adjusted using the relation: Corrected groundwater elevation = TOC - Depth to Water + (0.8 x Hydrocarbon Thickness).

Beginning July 18, 2002, well elevations measured from TOC

Site wells surveyed March 5, 2002 by Virgil Chavez Land Surveying

Site wells surveyed December 18, 2007 by Virgil Chavez Land Surveying

Wells S-14R and S-19 through S-23 surveyed on November 11, 2008 by Virgil Chavez Land Surveying

Well S-5 surveyed on November 11, 2008 by Virgil Chavez Land Surveying

Well S-5 surveyed on October 8, 2009 by Virgil Chavez Land Surveying

APPENDIX A

BLAINE TECH SERVICES, INC. - FIELD NOTES

WELL GAUGING DATA

Projec	t#_	14	0131-	Ww !	Date	1/31	1.4	Client	Shell	
		1			- anna-					
Site	46	1	< ⁴L	St	Octlan	1		•		

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Immiscibles Removed		Depth to well bottom (ft.)	Survey Point: TOB or	Notes
S-5 5-6	0825	· · · · · · · · · · · · · · · · · · ·	0000	18,96	0,91	A COMPANSAL SALE	19.87	and the second s		
5-6	<i>0</i> 334	4		4.MESMismeyshikusasada			23.30	34.97	V	
										· .

BTS#: 140131-121	Site: 4618 th SI, onteno on
Sampler:	Date: 1 31/14
Well I.D.:	Well Diameter: 2 3 4 6 8
Total Well Depth (TD):	Depth to Water (DTW): 12 0 19 87
Depth to Free Product: 1996	Thickness of Free Product (feet): \(\) \(\)
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Wat	er Column x 0.20) + DTW]:
· · · · · · · · · · · · · · · · · · ·	Waterra Sampling Method: Bailer Peristaltic Disposable Bailer raction Pump Extraction Port Dedicated Tubing Other: Well Diameter Multiplier Well Diameter Multiplier
(Gals.) X = 1 Case Volume Specified Volumes Calculated	Gals. 1" 0.04 4" 0.65 2" 0.16 6" 1.47
Time Temp (°F) pH Cond. (mS or μS)	Turbidity (NTUs) Gals. Removed Observations
X SPH detected	"INTERFACE PROBE
-NO SAMP	INTERFACE PROBE
Did well dewater? Yes No	Gallons actually evacuated:
Sampling Date: Sampling Ti	me: Depth to Water:
Sample I.D.:	Laboratory: Test America Other
Analyzed for: трн-д втех мтве трн-д	Oxygenates (5) Other:
EB I.D. (if applicable):	Duplicate I.D. (if applicable):
Analyzed for: трн-с втех мтве трн-с	
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

BTS #: 14	0131-20	VI		Site: 4	(61 EM	h ST. UTMELL	9~10, CA					
Sampler:				Date:	1 3							
Well I.D.:	5 - 6			Well L	Diameter	: 2 3 4) 6 8					
Total Well	Depth (TD): 34°	77	Depth	to Wate	r (DTW): 2 3.	30					
Depth to Fr	ee Product	-	· · · · · · · · · · · · · · · · · · ·	Thickness of Free Product (feet):								
Referenced	to:	(FVC)	Grade	D.O. N	Aeter (if	req'd):	YSI HACH					
DTW with	80% Rech	arge [(F	leight of Water	r Column x 0.20) + DTW]: てらしり3								
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Dedicated Tubing Other: Well Diameter Multiplier Well Diameter Multiplier 1" 0.04 4" 0.65 2" 0.16 6" 1.47												
1 Case Volume	Jais.) X	fied Volun		_ Gals. lume	ł -		1.47					
Time	Temp (°F)	рН	Cond. (mS or ris)	i	bidity ΓUs)	Gals. Removed	Observations					
0843	626	8,44	399	40	29	7-6	strong fuel was					
0845	64.6	8.19	406	70	97-	15.2						
0848	64.1	8.26	374	26	96	22.8						
Did well de	water?	Yes	(No)	Gallon	s actuall	y evacuated:	22.8					
Sampling D	ate: 1(3)	1114	Sampling Time	=:085	ų	Depth to Wate	er: 24.80					
Sample I.D.	: 5-6			Labora	tory:	Test America	Other					
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other: See	sow.					
EB I.D. (if a	ipplicable)	:	@ Time	Duplic	ate I.D.	(if applicable):	·					
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygen		Other:						
D.O. (if req'	d): Pr	e-purge:		mg/L	P	ost-purge:	mg/L					
O.R.P. (if re	q'd): Pr	e-purge:		mV	P	ost-purge:	mV					

INCIDENT# 97093979

ADDRESS 461 & R St.

CITY & STATE Oakland CA

		turni liki				Observ	ations l	Jpon Arr	val	nen, den zer		12x 90 x0y	165 (S) (S)			Dha	tos of	Repair Date
Well ID	Manwa	y Cover	Type, C	ondition	ı & Size	Pali	nbeled / nted erly*	(Gri	Cap oper) dition	Well I	ock Co	ndition	Sur	Pad / rface dition	Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Maintenance Recommended Well erformed Condition		
5-5	Standpipe	(F)ush	0	Р	Size (inch)	\bigcirc	N	(G)	R	(3)	R	NL	(3)	P	STORM DRAIN GRATE	Y	(N)	
S-6	Standpipe	Flosh	<u></u>	р	Size (inch)	(Ŷ)	N	(©)	R	(<u>o</u>	R	NL	ॐ	Р		Υ	Z D	
	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	Р		Υ	N	
	Standpipe	Flush	G	Р	Size (inch)	Υ	N	G	R	G	R	NL	G	Р		Y	N	
	Standpipe	Flush	G	Р	Size (inch)	Υ	N	G	R	G	R	NL	G	Р		Y	N	
	Standpipe	Flush	G	Р	Size (inch)	Υ	N	G	R	G	R	NL.	G	P		Υ	N	
	Standpipe	Flush	G	Р	Size (inch)	Y	2	G	R	G	R	NL.	G	P		Y	N	
	Standpipe	Flush	G	Р	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	Р		Y	N	
	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
				CHECKEN AND A	TOTA	L#CAP	S REPL	ACED =	ව	Section 1999	<u> </u>	= TOTA	L#OFL	OCKS R	EPLACED	····		
Condition of Abando	Soll Boring P oned Monitori			Р	N/A	If PO	OOR, Boi	ings/Well	IDs or Lo	ocation De	scription					Y	N	
(Check be	n Compound oxes that app	ly)	Cond	ition of E	nclosure		on of Are Enclosur		Соп	pound Se	curity	Emerg	ency Conf Visible	tact info	Cleaning / Repairs Recommended and Conducted		os of lition	Repair Date and PM initials
NA Buildi Building w/ Fe Fenced Con Trail	ing ence Comp. mpound		G	Þ	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Number of Drums On-site	Does the Source o	Label Rev			iled Correctl Vriting Legib		Dř	um Condi	lon		Drums led to amental		s Located ess Interf		Detailed Explanation of Any Issues Resolved	Phot Dr Coni	um	Date Drums Removed from Site and PM Initiate
0	Υ	N	N/A	Υ	N	N/A	G	Р	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

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

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

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

WELL GAUGING DATA

Project # 140314-301	Date	3/14	14	Client	_ Shell
Site 461 8th Street	Oak	land			

Well ID	Time	Well Size (in.)	Sheen / Odor	Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	(ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or	Notes
5-5	0800	4	邓仁	18.93	ins	Q	19,98	No. of the Control of	The state of the s	
5-5 5-13	6738	Ц	But	18.93 25.97	0.25	A STATE OF THE PARTY OF THE PAR	19,98 26.22	And the second second		
	* * * * * * * * * * * * * * * * * * * *		2.							
	 :									
					: 1					
-										

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·	······							
BTS#: 140314- JOI		Site: 4	161 8	tst. Oak	lad					
Sampler: BW		Date:	<i>?</i>	14/14						
Well I.D.: 5-5		Well D	<i>l</i> Diameter	: 2 3 4	6 8					
Total Well Depth (TD):	-	Depth	to Wate	r (DTW): /9.9	· · · · · · · · · · · · · · · · · · ·					
Depth to Free Product: / 8	3,83	Thickness of Free Product (feet): /./5								
Referenced to:	Grade	D.O. Meter (if req'd): YSI HACH								
DTW with 80% Recharge [(He	eight of Water	r Column x 0.20) + DTW]:								
Purge Method: Bailer Disposable Bailer Positive Air Displacemen Electric Submersible		Waterra Peristaltic tion Pump	Well Diamet	Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing					
(Gals.) X 1 Case Volume Specified Volume	= Calculated Vol	Gals.	1" 2" 3"	0.04 4" 0.16 6" 0.37 Othe	0.65 1.47					
Time Temp (°F) pH	Cond. (mS or μS)	l	oidity ΓUs)	Gals. Removed	Observations					
* Collected SPH	Sample	_								
	V									
	MHW4-1-1									

	TO THE REST OF THE									
Did well dewater? Yes 1	No	Gallon	s actuall	y evacuated: (<u> </u>					
Sampling Date: 3/14/14	Sampling Time	: 08	10	Depth to Wate	r:					
Sample I.D.: 5-5		Labora	tory:	Test America	Other					
Analyzed for: трн-с втех г	MTBE TPH-D	Oxygena	ites (5)	Other: See	(OC					
EB I.D. (if applicable):	@ Time	Duplica	ate I.D.	(if applicable):						
Analyzed for: TPH-G BTEX 1	МТВЕ ТРН-D	Oxygena	ntes (5)	Other:						
D.O. (if req'd): Pre-purge:		mg/L	P	ost-purge:	$^{ ext{mg}}/_{ ext{L}}$					
O.R.P. (if req'd): Pre-purge:		mV	P	ost-purge:	mV					

BTS#: 140314-501	Site: 461 8th St. Oakens
Sampler: BW	Date: 3/14/14
Well I.D.: 5-13	Well Diameter: 2 3 4 6 8
Total Well Depth (TD):	Depth to Water (DTW): Z6 . ZZ
Depth to Free Product: 25.97	Thickness of Free Product (feet): 0.25
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Wate	er Column x 0.20) + DTW]:
Purge Method: Bailer Disposable Bailer Positive Air Displacement Extra Electric Submersible Other	Waterra Sampling Method: Bailer Peristatic Disposable Bailer Extraction Port Dedicated Tubing Other:
(Gals.) X =	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
* Colleged SPH Sample	
Did well dewater? Yes No	Gallons actually evacuated:
Sampling Date: 3/14/14 Sampling Tin	ne: 0750 Depth to Water: ——
Sample I.D.: 5-13	Laboratory: Test America Other
Analyzed for: трн-G втех мтве трн-D	Oxygenates (5) Other: See COC
EB I.D. (if applicable):	Duplicate I.D. (if applicable):
Analyzed for: трн-G втех мтве трн-D	Oxygenates (5) Other:
D.O. (if req'd): Pre-purge:	mg/ _L Post-purge: mg/ _L
O.R.P. (if req'd): Pre-purge:	mV Post-purge: mV

INCIDENT#

DATE:

97993399

ADDRESS 461 8th St.
CITY & STATE Oakland, CA

								Jpon Arr	144.14.61.11.11.11		2 3 3 3		1		Note Repairs Made		tos of	Repair Date
Well ID	Manwa	y Cover	, Type, C	ondition	& Size	Pai	abeled <i>i</i> nted perly*	(Gri	l Cap pper) dition	Well	Lock Cor	ndition	Sur	Pad / face dition	Detailed Explanation of Maintenance Recommended and Performed	A	/ell dition	and PM Initials
5-5	Standpipe	Flush	(°)	Р	Size (inch)	(Y)	N	8	R	(6)	R	NL.	<u>{</u>	P	Vault.	Υ	(N)	
5-13	Standpipe	Flush	13	Р	Size (inch)	Ø	N	(G)	R	6	R	NL	(G)	P		Y	(N)	
	Standpipe	Flush	G	Р	Size (inch)	γ	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
	Standpipe	Flush	G	Р	Size (inch)	Υ	N	G	R	G	R	NL	G	P		Υ	N	
********	Standpipe	Flush	G	Р	Size (inch)	Υ	N	G	R	G	R	NL	G	Р		Υ	N	
	Standpipe	Flush	G	р	Size (inch)	Υ	N	G	R	G	R	NL	G	P		Υ	N	
	Standpipe	Flush	G	р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Υ	N	
	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
	Standpipe	Flush	G	Р	Size (inch)	Υ	N	G	R	G	R	NL	G	P		Υ	N	
			<u> </u>	L	TOTA	L#CAP	S REPL	ACED =	0		0	= TOTA	L#OFL	OCKS R	EPLACED			
	Soil Boring P oned Monitori			Р	N/A	If P	OOR, Boi	ings/Weli	IDs or Lo	cation De	scription:					Y	N	
	on Compound opxes that app		Cond	ition of E	nclosure	Contract of the end of	ion of Are Enclosur	with the contract	Com	pound Se	curity	Emerg	ency Con Visible	tact Info	Cleaning / Repairs Recommended and Conducted		tos of dition	Repair Date and PM Initials
NA Build Building w/ Fe Fenced Co Trail	ing ence Comp. ompound		G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Number of Drums On-site	Does the Source	Label Re of the Co	Street, here is a second of		iled Correct Vriting Legit		Dri	um Condi	tion	Rela	n Drums ted to nmental		s Located ess Interf		Detailed Explanation of Any Issues Resolved	D	tos of rum dition	Date Drums Removed from Site and PM Initials
800	Y	N	N/A	Υ	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable)

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

Print or type Name of Field Personnel & Consultant Company

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



SORBENT SOCK EVALUATION FORM

Name: Brian Weeks	Date: 3/14/14	Project Number: 140314-501							
Site Address: 461 84 St., Oakbed	Well ID: 5-5	Weather: overcas t							
1) Time absorbent sock removed:	from well for inspection:								
2) Condition of sock:		•							
a) Length of sock showing	product saturation:	<u>Ø</u>							
b) Length of sock showing	dryness:	<u>Ø</u>							
c) Color of sock showing p	roduct saturation:								
d) Weight of the removed s	ock:	Ø							
e) Weight of a new/clean/d	ry sock:	34 Kg (0.7216)							
e) Weight of a new/clean/dry sock: D. 34 Kg (0.72 lb) f) Difference in weight: (D-E) to 0.01 ounces.									
3) Picture of sock removed from v	well taken: □ - N/A	ř							
4) Sock removed from well depos	ited into a waste drum: \(\subseteq \rightarrow /	IA							
-Is drum labeled?	How full is drum? (%)								
5) After at least 15 minutes after a of the well casing. :	removing the sock from the well,	measure (to 0.01ft) from the top							
a) Depth to product:	******	18.83							
b) Depth to water:	•	18.83 19.98							
c) Thickness of product: (o-a)	1, 15							
6) Size and type of sock installed		20" Pig Sock X2							
7) Comments:	•	-							



SORBENT SOCK EVALUATION FORM

	,	
Name: Brian Weeks	Date: 3/14/14	Project Number: 140314- ての1
Site Address: 461 8th St. Oakland	Well ID: 5-13	Weather: Overcast
1) Time absorbent sock removed:	from well for inspection:	<u>Ø</u>
2) Condition of sock:		•
a) Length of sock showing	product saturation:	<u>G</u>
b) Length of sock showing	dryness:	Ø
c) Color of sock showing p	roduct saturation:	9
d) Weight of the removed s	ock:	<u> </u>
e) Weight of a new/clean/d	ry sock:	0.34 Kg (0.721b)
f) Difference in weight: (I	O-E) to 0.01 ounces.	Ø
3) Picture of sock removed from	well taken: □ - ~/A	f
4) Sock removed from well depos	ited into a waste drum:	1/A
-Is drum labeled?	How full is drum? (%)	
5) After at least 15 minutes after roof the well casing.:	removing the sock from the well	, measure (to 0.01ft) from the top
a) Depth to product:	_	25.97
b) Depth to water:	_	25.97 26.22 0.25
c) Thickness of product: (b-a)	0.25
6) Size and type of sock installed	-	20" pig sock XZ
7) Comments:	•	-

WELL GAUGING DATA

Site 461 8th st., Oakland

Well ID	Time	Well Size (in.)	Sheen / Odor	1	Thickness of Immiscible Liquid (ft.)	Immiscibles Removed	Depth to water	Depth to well bottom (ft.)	Survey Point: TOB or	Notes
54	0804	L)					21,70	29.20		
5-5	5975	H		18-100	1.14	7571	19680		- MacDobine, transporter free	SOCKS
5-6	6008	4					22 99	34 99	ACAN WEST WOOD WAS	
5-8	11180	H					25.28	28,83	deposition and a second	
5-9	0818	4					2490	29.65	SALES AND THE SA	
5-(0	3538						26.20	35.92		
5-17	0705	14 24201	K	75-A			47-08	34.10		
5-13	045V	H		75.40	0.39	960	26.09			SOCIUS
5-148	0852	H					24.99	34.32		
5-17	Orizo	2					2521	39.51	Print Book of Lines.	
5-18	0836	2					2561	33.01		
5-19	DE018	14					24.94	34.49	and the second	
5-40	0845	¥					25.15	34-79		
5-314	0624	H.					26.28	2652	American de Americano	
5-218	0425	Ч					264	31.44		
5-22A			well Pe	wkei	5.1e.1					
5-22.6 5-20	04032	Ч	V L		Marin Santa Anna Cara Cara Cara Cara Cara Cara Cara C		29-67	34.40		WWW.commission.completions are property of \$1.00

		~~~~~									
BTS #: \	(3/21-	729		Site: 4	WYN	57 0	Aki	eand, ca			
Sampler: (	M			Date:	4/21	14		•			
Well I.D.:				Well D	iameter:	2 3	4)	6 8			
Total Well	Depth (TD	): 29. (		Depth t	Depth to Water (DTW): 21.70						
Depth to Fr	· · · · · · · · · · · · · · · · · · ·			Thickn	ess of F	ree Produc	t (fee	t):			
Referenced	to:	(VC)	Grade	D.O. M	leter (if	req'd):		YSI HACH			
DTW with	80% Rech	arge [(H	leight of Water	Column	1 x 0.20)	+ DTW]:	23	20			
Purge Method:  U. Q. (6)  I Case Volume	Bailer Disposable B Middleburg Electric Subn  Gals.) X Speci		Other	Waterra Peristaltic tion Pump  Gals.	Well Diamete 1" 2" 3"	Sampling M  r Multiplier  0.04  0.16  0.37	Other: Well Di 4" 6" Other	Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing  iameter Multiplier  0.65  1.47  radius²* 0.163			
Time	Temp (°F)	рН 7.97	Cond. (mS/cm or µ8/cm)	(N)	oidity (TUs)	Gals. Rem	oved	Observations			
	DEW /	<u> </u>	D2 (	4.9		4 CS		3			
lutic				1 ' /	Les J	and the same of th	»				
1240	63.6	7.5%	598	>/	' o O o	Mar (programme)					
		N _a									
Did well de	water?	Tes)	No	Gallons	s actuall	y evacuate	d: 4	9			
Sampling D	ate: 4/n	1/14	Sampling Time	e: 12	40	Depth to	Water	:23.69 (>zno			
Sample I.D.	: 5-4			Labora	tory:	Test Americ	2 O	ther			
Analyzed fo	or: APH-G	втех	MTBE TPH-D	Other:							
EB I.D. (if	applicable)	):	@ .	Duplica	ate I.D.	(if applica	ble):				
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Other:	-						
D.O. (if req	'd): Pi	re-purge:		mg/L,	P	ost-purge:		mg/L			
O.R.P. (if re	eq'd): Pi	re-purge:		mV	P	ost-purge:	ľ	mV			

**************************************	***************************************	***************************************					
BTS#: [Li	BTS#: 140421-PC1				17693	3399	
Sampler: Ro		***		Date: \	1/2/	ly	
Well I.D.:	5-6			Well Di	iameter	: 2 3 <b>(</b>	6 8
Total Well I	Depth (TD	ı):		Depth to	o Wate	r (DTW): լգ	80
Depth to Fro	ee Product	: 18.6	>6	Thickne	ess of F	ree Product (fe	et): [, [4
Referenced	to:	PVe	Grade	D.O. M	eter (if	req'd):	YSI HACH
DTW with 8	30% Recha	arge [(H	leight of Water	Column	x 0.20)	) + DTW]:	
-	Bailer Disposable Ba Positive Air D Electric Subm	Displaceme		Waterra Peristaltic ction Pump	Well Diamete	Sampling Method Other	Disposable Bailer Extraction Port Dedicated Tubing
l Case Volume	Gals.) X Specif	fied Volum		_ Gals.	1" 2" 3"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47
Time	Temp (°F)	pН	Cond. (mS or μS)	Turbi (NT		Gals. Removed	Observations
	2acs)	SPH	bailed (	757	11 m		
	0.5,		o bailed		<del></del>		
	Ų.	riepl	1				
Did well de	water?	Yes	No /	Gallons	actuall	y evacuated:	/
Sampling D	ate:		Sampling Time	ə:		Depth to Wate	er:
Sample I.D.	: 5-5			Laborate	ory:	Test America	Other
Analyzed for: (TPH-G BTEX) MTBE TPH-D				Oxygenat	es (5)	Other:	
EB I.D. (if applicable): @ Time				Duplica	te I.D. (	(if applicable):	
Analyzed fo	втех	MTBE TPH-D	Oxygenat	es (5)	Other:		
D.O. (if req'	d): /r	re-purge:		mg/L	P	ost-purge:	mg/ _L
O.R.P. (if re	q'd): / Pr	e-purge:	1	mV	P	ost-purge:	mV

Sampler: W PC Mo Date: 4 (1, 4)  Well L.D.: 5 -	BTS#: 14	(0421-1	201		Site: 461 8+11 ST, DAMIAND, CA				
Total Well Depth (TD): 3 \( \) .	Sampler:	m R	C/m	N	Date: 4 /21/14				
Depth to Free Product:  Referenced to:  (PvC) Grade  D.O. Meter (if req'd):  Referenced to:  (PvC) Grade  D.O. Meter (if req'd):  Porge Method:  Bailer  Disposable Bailer  Middleburg  Electric Submersible  Disposable Bailer  Middleburg  Electric Submersible  Disposable Bailer  Middleburg  Electric Submersible  Disposable Bailer  Peristatlic  Entraction Pump  Other:    Well Dismoss   Multiple   Well Disposable Bailer  Extraction Pump  Other:    Well Dismoss   Multiple   Well Disposable Bailer  Extraction Port Dedicated Tubing  Other:    Other   Disposable Bailer  Extraction Pump  Other:    Well Dismoss   Multiple   Well Disposable Bailer  Extraction Port Dedicated Tubing  Other:    Total Well Disposable Bailer    Waterrax   Other   Disposable Bailer  Extraction Pump  Other:    Other   Disposable Bailer  Extraction Pump  Other:    Total Well Disposable Bailer    Disposable Bailer    Disposable Bailer   Extraction Port Dedicated Tubing  Other:    Total Well Disposable Bailer   Disposable Bailer	1	*							
Depth to Free Product:  Referenced to:  PVC Grade D.O. Meter (if req'd): YSI HACH  DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 2 5 . 32.  Purge Method: Bailer Disposable Bailer Middleburg Extraction Pump Other:    Value	Total Well	Depth (TD	)): 34	99	Depth to Wate	er (DTW): 🥄 🤈	-, 98		
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 25.38  Purge Method: Bailer Disposable Bailer Middleburg Extraction Pump Other Other    1									
Purge Method: Bailer Disposable Bailer Disposable Bailer Middleburg Extraction Pump Other:    Peristaltic Extraction Pump Other   Peristaltic Extraction Pump Other   Disposable Bailer Extraction Pump Other	Referenced	to:	(PVC)	Grade	D.O. Meter (if	req'd):	YSI HACH		
Disposable Bailer Middleburg Extraction Pump Other Dedicated Tubing Other    The Condition of Pump Other   Peristaltic Extraction Pump Other	DTW with	80% Rech	arge [(H	leight of Water	Column x 0.20	) + DTW]: 2 5	5.38		
T   B   (Gals.) X   3   2   2   1   Gals.   2   1   1   0.04   4   1.47   0.65   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.47   1.4	Purge Method:	Disposable B Middleburg	r.	Extrac	Peristaltic		Disposable Bailer Extraction Port		
Time Temp (°F) pH (ms/cm or (5cm) (NTUs) Gals. Removed Observations  1010 661 816 406 138 7.5 odor  1013 66.0 7.55 380 203 15.6 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 383 392 23.4 (( 1015 65.9 7.35 393 392 23.4 (( 1015 65.9 7.35 393 392 23.4 (( 1015 65.9 7.35 393 392 23.4 (( 1015 65.9 7.35 393 392 23.4 (( 1015 65.9 7.35 393 392 23.4 (( 1015 65.9 7.35 393 392 23.4 (( 1015 65.9 7.35 393 392 23.4 (( 1015 65.9 7.35 393 392 2		* *************************************	5 fied Volum		Gals.	0.04 4" 0.16 6"	0.65 1.47		
Did well dewater? Yes No Gallons actually evacuated: 23 4  Sampling Date: 4 21 4 Sampling Time: Do Depth to Water: 25 - 11  Sample I.D.: 5 - Laboratory: Pest America Other  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  EB I.D. (if applicable): Duplicate I.D. (if applicable):  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  D.O. (if req'd): Pre-purge:   D.O. (if req'd):	Time	Temp (°F)		(mS/cm or µS/cm)	(NTUs)	Gals. Removed	Observations		
Did well dewater? Yes No Gallons actually evacuated: 23 Y  Sampling Date: Y 21 Y Sampling Time: D 20 Depth to Water: 25 - 11  Sample I.D.: 5 - Laboratory: Pest America Other  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  EB I.D. (if applicable): Duplicate I.D. (if applicable):  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  D.O. (if req'd): Pre-purge: Post-purge: Post-	1010	66.1			138	7.8	odor		
Did well dewater? Yes No Gallons actually evacuated: 23 4  Sampling Date: 4 21 4 Sampling Time: D Depth to Water: 25 - 11  Sample I.D.: 5 - Laboratory: Yest America Other  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  EB I.D. (if applicable): Duplicate I.D. (if applicable):  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  D.O. (if req'd): Pre-purge:   D.O. (if req'd): P	1013	66.0	7:55	380	203	15-6	<b>{</b> {		
Sampling Date: 4 21 4 Sampling Time: D20 Depth to Water: 25 1 Sample I.D.: 5 - 6 Laboratory: 7 Sest America Other  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  EB I.D. (if applicable):	1015	65.9	735	383	392	23.4	``		
Sampling Date: 4 21 4 Sampling Time: D20 Depth to Water: 25 1 Sample I.D.: 5 - 6 Laboratory: 7 Sest America Other  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  EB I.D. (if applicable):									
Sampling Date: 4 21 4 Sampling Time: D20 Depth to Water: 25 1 Sample I.D.: 5 - 6 Laboratory: 7 Sest America Other  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  EB I.D. (if applicable):	*****								
Sample I.D.: S—( Laboratory: Pest America Other				· · · · · · · · · · · · · · · · · · ·	***************************************	······································			
Analyzed for: TPH-G BTEX MTBE TPH-D Other:  EB I.D. (if applicable):   Duplicate I.D. (if applicable):  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  D.O. (if req'd): Pre-purge:   D.O. (if	Sampling D	ate: 4/2	114	Sampling Time	e: 1020	Depth to Water	r: 25 - 11		
EB I.D. (if applicable):  Analyzed for: TPH-G BTEX MTBE TPH-D Other:  D.O. (if req'd): Pre-purge:  D.O.	Sample I.D.	Sample I.D.: 5 - Laboratory: Yest America Other							
Analyzed for: TPH-G BTEX MTBE TPH-D Other:  D.O. (if req'd): Pre-purge:     D.O. (if req'd): Pre-purge:   Post-purge:   Post-pur	Analyzed fo								
D.O. (if req'd): Pre-purge: mg/L Post-purge: mg/L	EB I.D. (if a	applicable)			Duplicate I.D. (if applicable):				
	Analyzed fo	r: TPH-G	BTEX	МТВЕ ТРН-D	Other:				
O.R.P. (if req'd): Pre-purge: mV Post-purge: mV	D.O. (if req'	d): Pr	e-purge:	***************************************	mg/L I	Post-purge:	mg/ _L		
	O.R.P. (if re	eq'd): Pr	e-purge:		mV I	Post-purge:	mV		

BTS #: [4	0421-8	<u>U</u>		Site: a	70933	:29		**************************************	
Sampler: P	<u> </u>			Date:	4(21/14	(			
Well I.D.:	3-6			Well D	iameter	: 2 3	4	6 8	
Total Well	Depth (TD	): 28-	<b>%</b> 3	Depth to Water (DTW): 25.28					
Depth to Fr	ee Product			Thickn	ess of F	ree Prodi	ıct (fee	et):	
Referenced	to:	<b>1</b> √05	Grade	D.O. N	leter (if	req'd):		YSI HACH	
DTW with	80% Rech	arge [(H	leight of Water	Column x 0.20) + DTW]: 25.99					
Purge Method:	Bailer Disposable B Middleburg Electric Subn			Waterra Peristaltic tion Pump		Sampling  st Multiplier	Other:	Disposable Bailer Extraction Port Dedicated Tubing	
23 (Case Volume	Gals.) X Speci	3 fied Volun	$\frac{1}{\text{nes}} = \frac{Q - Q}{\text{Calculated Vo}}$	Gals.	1" 2" 3"	0.04 0.16 0.37	4" 6" Other	0.65 1.47	
Time	Temp (°F)	pН	Cond. (mS/cm on \u00abS/cm)	3	bidity I'Us)	Gals. Re	moved	Observations	
1100	67.5	642	4851	24	18	2	.5		
1102	Livell.	Levate	red	,					
1415	69-8	tor	331-9	7(8	<u> </u>				
Did well de	water?	$\widehat{\mathrm{Yes}}$	No	Gallon	s actuall	y evacua	ted: 🥞	)	
Sampling D	ate: 4 21	(14	Sampling Time	e: [4]	5	Depth to	Water	:: 25-30	
Sample I.D.	: 5-6			Labora	tory:	Test Amer	iga C	ther	
Analyzed fo	r: (TPH-G	BTEX	МТВЕ ТРН-D	Other:					
EB I.D. (if a	pplicable)		@ . Time	Duplicate I.D. (if applicable):					
Analyzed fo	r: TPH-G	MTBE TPH-D	Other:						
D.O. (if req'	d): Pr	e-purge:		^{mg} /L	P	ost-purge:		mg/L	
O.R.P. (if re	eq'd): Pr	e-purge:		mV	P	ost-purge:		mV	

BTS #: 140421-PC1	Site: 461 8th ST, OAKLIMD, CA								
Sampler: www	Date: 4/21/14								
Well I.D.: 5-4	Well Diameter: 2 3 4 6 8								
Total Well Depth (TD): 29.65	Depth to Wate	Depth to Water (DTW): 24.90							
Depth to Free Product:	Thickness of F	ree Product (fe	et):						
Referenced to: (FVC) Grade	D.O. Meter (if	req'd):	YSI HACH						
DTW with 80% Recharge [(Height of Water	Column x 0.20) + DTW]: 25-85								
Purge Method: Bailer Disposable Bailer Middleburg Extra Electric Submersible Other	Waterra Peristaltic ction Pump	Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing						
Well Diameter Multiplier Well Diameter Multiplier    Case Volume   Specified Volumes   Calculated Volume   Well Diameter Multiplier     1^n   0.04   4^n   0.65     2^n   0.16   6^n   1.47     3^n   0.37   Other   radius²*0.163									
Time Temp (°F) pH Cond. (mS/cm or uS/cm)	Turbidity (NTUs)	Gals. Removed	Observations						
WELL DENAMERED C 3	1 6AC	5	*						
1455 650 740 299.8	80	N. CONTINUE							
		and the second of the second o							
	,								
Did well dewater? Yes No	Gallons actuall	y evacuated:	3 - 1						
Sampling Date: 4(2) Sampling Tim	e: 1458	Depth to Water	r: 25-3						
Sample I.D.: $\leq -e_{\zeta}$									
nalyzed for: TPH-G BTEX MTBE TPH-D Other: OKLOF (5)									
EB I.D. (if applicable):	Duplicate I.D. (	(if applicable):	<u> </u>						
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:								
D.O. (if req'd): Pre-purge:	Post-purge:								
O.R.P. (if req'd): Pre-purge:	mV P	ost-purge:	mV						

BTS #: 16	BTS #: 140421-PC(					Site: 9 7093399				
Sampler: V	<u> </u>			Date:	4/21/1	Ų				
Well I.D.: ع	5-10		·	Well I	)iameter:	: 2 3	4	6 8		
Total Well 1	Depth (TD	):352	92	Depth	Depth to Water (DTW): 26-20					
Depth to Fro	ee Product	**		Thickr	ess of F	ree Produ	ct (fee	et):		
Referenced	to:	(PVC)	Grade	D.O. N	Aeter (if	req'd):		YSI HACH		
DTW with 8	80% Rechi	arge [(H	Ieight of Water	Colum	n x 0.20)	) + DTW]	: 28	<u> </u>		
Purge Method:	Bailer Disposable Ba Middleburg Electric Subm			Waterra Peristaltic tìon Pump	;	Sampling P	Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing		
6.3 (C) 1 Case Volume	Jais.) A	, Gied Volum	nes Calculated Vo	_ Gals. llume	Well Diamete: 1" 2" 3"	0.04 0.16 0.37	Well D 4" 6" Other	0.65 1.47 radius ² * 0.163		
Time	Temp (°F)	pН	Cond. (mS/cm or µS/cm)	1	bidity TUs)	Gals. Ren	noved	Observations		
1116	67.6	6.69	694.	25	86	63	>			
1118	vel(de	when	d							
1428	69-2	le-602	542-0	61						
								·		
							***************************************			
Did well dev	water?	(Yes)	No	Gallon	s actuall;	y evacuate	ed: 1	2		
Sampling D	ate:4/24/	14	Sampling Time	e: 142	Ŕ	Depth to	Water	r: 26.31		
Sample I.D.	: 5-10			Labora		Cest Americ		Other		
Analyzed for: TPH-G BTEX MTBE TPH-D Other: SN. 3 (5)										
EB I.D. (if a	Duplic	ate I.D. (	(if applica	uble):	17-31					
Analyzed fo	MTBE TPH-D	Other:		***************************************	······································					
D.O. (if req'	d): Pr	e-purge:		mg/ _L	P	ost-purge:		$^{ m mg}/_{ m L}$		
O.R.P. (if re	q'd): Pr	e-purge:		mV	P	ost-purge:		mV		

BTS #: 140	421-861			Site: 97093349					
Sampler: PC	_p ,			Date: 4/4/li	<b>Y</b>				
Well I.D.:	5-12			Well Diameter: 2 3 (4) 6 8					
Total Well D	epth (TD)	): ૩૫.ા	0	Depth to Wate	er (DTW): 27.8	8			
Depth to Free	e Product	_		Thickness of	Free Product (fee	et):			
Referenced to	o:	(PVC)	Grade	D.O. Meter (i	f req'd):	YSI HACH			
DTW with 80	)% Recha	ırge [(H	eight of Water	Column x 0.20) + DTW]: 28.48  Waterra Sampling Method: XBailer					
N N	Bailer Disposable Ba Aiddleburg Electric Subm		Extrac	Waterra Peristaltic tion Pump  Well Diame	Other:	Disposable Bailer Extraction Port Dedicated Tubing  Diameter Multiplier 0.65			
Case Volume	als.) X Specif	ied Volum	$\frac{12.8}{\text{Calculated Vo}}$	Gals. 2" olume 3"	0.16 6" 0.37 Other	1.47 radius ² * 0.163			
Time 1	Γemp (°F)	рН	Cond. (mS/cm or (S/cm)	Turbidity (NTUs)	Gals. Removed	Observations			
1045	68.0		1006	62	4.6				
	68.5			386	9-2				
1049	68.9	6.36	1160	71000	3.8				
	·								
Did well dew	ater?	Yes (	109	Gallons actua	lly evacuated:	13-8			
Sampling Da	te: Ц <u>и</u>	\\ <u>\</u>	Sampling Tim	e: 1343	Depth to Wate	r: 27/15			
Sample I.D.:	572	***************************************		Laboratory:	Text America (	Other			
Analyzed for	: (ТРН-G	BTEX	MTBE TPH-D	Other:					
EB I.D. (if ap	plicable)	:	@ . Time	Duplicate I.D. (if applicable):					
Analyzed for: TPH-G BTEX MTBE TPH-D				D Other:					
O.O. (if req'd): Pre-purge:				mg _{/L.}	Post-purge:	mg/ _L			
O.R.P. (if req	l'd): Pr	e-purge:		mV	Post-purge:	mV			

BTS #: ( 4	BTS#: (404/28-PC1					Site: 461 8th ST. OAKLAND, GA				
Sampler: (	w			Date:	4/20	104				
Well I.D.:	5-13			Well D	iameter:	2 3	0	6 8		
Total Well I	Depth (TD	): <del>Z</del>	S	Depth to Water (DTW): 76.09						
Depth to Fre	ee Product	: Z	5,70	Thickn	ess of Fi	ree Produc	ct (fee	et):		
Referenced	to:	₹Vc)	Grade	D.O. Meter (if req'd): YSI HACH						
DTW with 8	80% Recha	arge [(H	leight of Water	Columr	ı x 0.20)	+ DTW]:	•			
Purge Method:	Bailer Disposable Bailer Middleburg Electric Subm	Andrew Control of the		Waterra Peristaltic tion Pump	Well Diamete	Sampling N	Other:	Bailer  Bisposable Bailer  Extraction Port  Dedicated Tubing		
Anna de Caralle de Car	Gals.) X	ar ethiology (18 has a new Sale and the Sale of Sale o	any party of an angle of the section	Cala	1" 2"	0.04 0.16	4" 6"	0.65 1.47		
1 Case Volume	,	fied Volun	nes Calculated Vo	_ Gals.   lume	3"	0.37	Other	radius ² * 0.163		
Time ~960	Temp (°F)	рН	Cond. (mS/cm or µS/cm)  5PH bailed	(N)	oidity TUs)	Gals. Ren	noved	Observations		
		2	D SAMPLE	TAI	CEN					
Did well dev	water?	Yes	No			y evacuate	ed:			
Sampling D	ate: 4/21	1,4	Sampling Time	<b>∂</b> :		Depth to	Wate	r:		
Sample I.D.: $\leq -13$					tory:	Test-Americ	a) (	Other		
Analyzed for: TPH-G BYEX MTBE TPH-D										
EB I.D. (if a	@ Time	Duplica	ate I.D. (	if applica	ble):					
Analyzed for: трн-G втех мтве трн-D				Other:	·····					
D.O. (if req'	d): Pr	e-purge:		mg/L	P	ost-purge:		mg/L		
O.R.P. (if re	q'd): Pr	e-purge:		mV	P	ost-purge:		mV		

Site: १७१३३९९

BTS #: 140421-PC

Sampler: 🛚 🤻	<u>'</u>			Date: 4/21/14					
Well I.D.:	5-14R			Well Dia	meter:	2 3	<u>(4)</u>	6 8	
Total Well	Depth (TD	): 34.3	32	Depth to	Water	(DTW):	2499		
Depth to Fr	ee Product	*		Thickness of Free Product (feet):					
Referenced	to:	(Eve	Grade	D.O. Me	ter (if i	req'd):		YSI HACH	
DTW with	80% Recha	arge [(H	eight of Water	Column x	(0.20)	+ DTW]	36		
Purge Method:	Bailer Disposable B Middleburg Ælectric Subm			Waterra Peristaltic tion Pump		Sampling 1	Method: Other:	⊮Bailer Disposable Bailer Extraction Port Dedicated Tubing	
Case Volume	Gals.) XSpeci	3 fied Volum	$= \frac{\sqrt{8.3}}{\text{Calculated Vo}}$	_ Gals.	Il Diameter 1" 2" 3"	Multiplier 0.04 0.16 0.37	Well D 4" 6" Other	iameter <u>Multiplier</u> 0.65 1.47 radius ² * 0.163	
Time	Temp (°F)	pН	Cond. (mS/cm or uS/cm)	Turbid (NTU	- 1	Gals. Rer	noved	Observations	
1215	67-0	4,61	<u>35(.0</u>	39		(e-1			
1216	bowl	<u>lang</u>	ored C 11	GALS					
1500	65.9	7.18	406	149		Market State			
Did well de	 water? (	Yes)	No	Gallons a	nctually	y evacuat	ed: []	:	
Sampling D	vate: 4/24	<del></del>	Sampling Time					25.11	
Sample I.D.	: 5 <b>4</b> 4R			Laborato	ry: (	Test Ameri	èa O	ther	
Analyzed fo	or: aph-G	BTEX	МТВЕ ТРН-D	Other:					
EB I.D. (if	applicable)	:	② . Time	Duplicate	e I.D. (	(if applica	able):	· · ·	
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Other:					
D.O. (if req	'd): Pi	e-purge:		mg/ _L	P	ost-purge:		mg/L	
O.R.P. (if re	eq'd): Pr	e-purge:		mV	Pe	ost-purge:		mV	

Site: 97093399

BTS#:

(40421-8C)

Sampler: Q	<u> </u>		****	Date:	4/21	14				
Well I.D.:	5-17			Well I	Diameter	:(2) 3	4	6	8	
Total Well	Depth (TE	)): <u>33.</u>	5)	Depth	to Wate	r (DTW)	: 25.	- <b>Q</b> (		
Depth to Fr	ee Produc	t:		Thickness of Free Product (feet):						
Referenced	to:	(PVC)	Grade	D.O. N	Aeter (if	req'd):		YSI	НАСН	
DTW with	80% Rech	arge [(F	leight of Water	Colum	n x 0.20	) + DTW	1:27	43		
Purge Method:	Bailer Disposable B Middleburg Electric Subn			Waterra Peristaltic		Sampling	Method:	D	XBailer Disposable Bai Extraction Po Dedicated Tubi	rt
1 Case Volume	Gals.) X	3 fied Volum	= 3.6 Calculated Vo	_ Gals. lume	Well Diamete 1" 2" 3"	or Multiplier 0.04 0.16 0.37	Well [ 4" 6" Other	Diameter	Multiplier 0.65 1.47 radius ² * 0.163	3
Time	Temp (°F)	pН	Cond. (mS/cm or aS/cm)	l	bidity ΓUs)	Gals. Re	moved	(	Observation	is
1155	67.5	6.20	324	>6	100		<b>)</b>			
1157	68,7	6.24	668	200	300	24				
1159	68.1	6.44	041	が	00	3.6				
Did well de	woter?	Van A	<b>(</b>	Č.11	1			**** /	<del>4 </del>	
		ţ				y evacua		<u>3.6</u>		***************************************
Sampling D	1 2 - 2	114	Sampling Time	<u>: 120</u>	25	Depth to	Water		6,60	
Sample I.D.	: 5-17			Labora	tory:	Cest Amer	ica C	ther		
Analyzed fo	r: (tph-g`	BTEX		Other:						
EB I.D. (if a	pplicable)	+	@ ,	Duplic	ate I.D. (	(if applic	able):			
Analyzed fo	r: TPH-G	втех	MTBE TPH-D	Other:						
O.O. (if req'	d): Pr	e-purge:		mg/L	P	ost-purge:				mg/L
D.R.P. (if re	q'd): Pr	e-purge:		mV	Po	ost-purge:				mV
•										

BTS#: เน	BTS#: [40471-PCI					5.भ <b>.</b> ष			
Sampler: 🕏	c/ww			Date:	Hadi	4			
Well I.D.:	5-18			Well D	iameter	: ② 3	4	6 8	
Total Well	Depth (TD	): 33 ₋₀	99	Depth to Water (DTW): 25-61					
Depth to Fr	ee Product	*				ree Produ			
Referenced	to:	(VC)	Grade	D.O. M	leter (if	req'd):		YSI HACH	
DTW with	80% Recha	arge [(H	leight of Water	Column x 0.20) + DTW]: 2チル					
Purge Method:	_	ailer		Waterra Peristaltic tion Pump	Well Diamete	Sampling l	Method: Other:		
1 Case Volume	Gals.) XSpeci	, fied Volum	= 3.6 nes Calculated Vo	_ Gals. lume	1" 2" 3"	0.04 0.16 0.37	4" 6" Other	0.65 1.47 radius ² * 0.163	
Time	Temp (°F)	pН	Cond. (mS/cm or µS/cm)	ì	oidity ΓUs)	Gals. Ren	noved	Observations	
	670	610	297.4	7(60	0	1.2			
1154	669	603	289,9	7(000		2.4			
11.68	66-8	le.or	295.1	>(98	<del>}</del> ∂	J.b			
								·	
×					e,				
Did well de	water?	Yes (	No	Gallon	s actuall	y evacuat	ed:	3.6	
Sampling D	ate: 4/24	M	Sampling Time	e: \20	`Ç	Depth to	Water	r: 2580	
Sample I.D.	: 5-18	•		Labora	tory:	Test Ameri	ga c	Other	
Analyzed fo	Other:								
EB I.D. (if a	@ . Time	Duplicate I.D. (if applicable):							
Analyzed fo	Other:								
D.O. (if req'		mg/L Post-purge:			mg/ _L				
O.R.P. (if re	:q'd): Pr	e-purge:		mV	Р	ost-purge:		mV	

BTS#: Lu	<u> </u>		Site: 461 8th ST OAKLANDER						
Sampler: Î	W			Date:	4/21/0	ر س			
Well I.D.:	5-19			Well D	iameter:	2 3 4	6 8		
Total Well I	Depth (TD	): 34.	49	Depth to Water (DTW): 24.95					
Depth to Fre	ee Product	*		Thickness of Free Product (feet):					
Referenced	to:	(PVC)	Grade	D.O. M	leter (if	req'd):	YSI HACH		
DTW with 8	30% Recha	irge [(H	eight of Water	Column	x 0.20)	+ DTW]: 2	6.86		
Purge Method:	Bailer Disposable Ba Middleburg Electric Subm			Waterra Peristaltic tion Pump	well Diameter	Sampling Method:  Other:	Disposable Bailer Extraction Port Dedicated Tubing		
6.1 (Case Volume	Gals.) XSpeci	} fied Volum		_ Gals.	1" 2" 3"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47		
Time	Temp (°F)	рН	Cond. (mS/cm or µ\$/cm)	ā.	oidity (Us)	Gals. Removed	Observations		
1148	67:4	7.69	1006	9	9	62	odor (sheen)		
1150	67.7	7.62	534	66	7	12.4	odor (sheen)		
WEU	DFU	A CH	REA	e 1	76	als.			
			_						
1415	675	g.17	5/1	6	3	Specific mediterrollosiscoperates	odor sheen		
Did well de	water?	Yes)	No	Gallons	actually	y evacuated:	17		
Sampling D	ate: 4/2	1/14	Sampling Time	e:   4	15	Depth to Wate	r:24.45		
Sample I.D.	: 5-19			Labora	tory:	Test America (	Other		
Analyzed fo	or: т <u>е</u> н-б	BTEX	MTBE TPH-D	Other:					
EB I.D. (if a	applicable)	) <b>:</b>	@ . Time	Duplicate I.D. (if applicable):					
Analyzed fo	BTEX	MTBE TPH-D				1			
D.O. (if req'	d): Pr	e-purge:		^{mg} /L Post-purge:			mg/ _L		
O.R.P. (if re	eq'd): Pr	e-purge:		mV	P	ost-purge:	mV		

BTS #: 14	0421-8	<u> </u>		Site: 4	61 84	4 57	Site: 461 8th ST OAKLAND, CA						
Sampler: \	~~			t	1/2/10								
Well I.D.:	5-20			Well D	iameter	: 2 3	<b>(4</b> )	6 8					
Total Well	Depth (TD	): 34	. T.S.	Depth t	o Water	(DTW): 1	25	. 15					
Depth to Fr	ee Product	t:		Thickness of Free Product (feet):									
Referenced	to:	PÁC)	Grade	D.O. Meter (if req'd): YSI HACH									
DTW with	80% Rech	arge [(H	leight of Water	Column	x 0.20)	+ DTW]:	27	. oq					
Purge Method:	Bailer Disposable B Middleburg Electric Subn		Extrac Other	Waterra Sampling Method: Bailer Peristaltic Disposable Bailer etion Pump Extraction Port Dedicated Tubing Other:  Well Diameter Multiplier Well Diameter Multiplier									
l Case Volume	Gals.) X Speci	3 fied Volum	= 13.7 Calculated Vo	Gals.	1" 2" 3"	0.04 0.16 0.37	4" 6" Other	tiameter Multiplier 0.65 1.47 radius ² * 0.163					
Time	Temp (°F)	pН	Cond. (mS/cm or uS/cm)	ļ.	idity Us)	Gals. Remo	oved	Observations					
1113	6.7	+:++	292	7.		6-3							
116	67.3	7.34	509	17		12-6							
well	DEW	MER	ED C	ري ا	6AC	\$ >							
1445	65K	7.08	3541	34	)	af vijdenske tiv Stratiliër menstrengerijk							
			<b>3</b>			· · · · · · · · · · · · · · · · · · ·							
Did well de	water?	(Yes)	No	Gallons	actually	y evacuated	d: <del>-</del> €	<del>,</del> 13					
Sampling D	ate: 4 1	1(4	Sampling Time	e: 1446	, }	Depth to V	Vater	:25.20					
Sample I.D.	:5-20			Laborat	ory:	Test-America	. 0	ther					
Analyzed fo	r: रॄर्शन-G	BTEX	МТВЕ ТРН-D	Other:									
EB I.D. (if a	pplicable)	-	@ .	Duplica	ite I.D. (	if applicab	le):						
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Other:		<del></del>		÷					
D.O. (if req'	d): Pr	e-purge:	and the second second	mg/L	Po	ost-purge:		mg/L					
O.R.P. (if re	q'd): Pr	e-purge:		mV	Po	ost-purge:		mV					

BTS #: 14	0421-1	?વ		Site: 97-09 3399						
Sampler: \(	2	,		Date:	4/21/					
Well I.D.:	5-21	A		Well D	iameter	: 2 3 4	6 8			
Total Well	Depth (	TD): 26.	52	Depth	to Water	r (DTW): 26	29			
Depth to Fr	ee Prodi	ıct:		Thickness of Free Product (feet):						
Referenced	to:	PVÒ	Grade	D.O. M	leter (if	req'd):	YSI HACH			
DTW with	80% Re	charge [(H	leight of Water	Column	1 x 0.20	) + DTW]:				
Purge Method:	Bailer Disposabl Middlebur Electric St	/	Extrac Other	Waterra Peristaltic tion Pump		Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing			
1 Case Volume	Gals.) X	ecified Volun	= nes Calculated Vo	_ Gals.	Well Diamete 1" 2" 3"	er <u>Multiplier</u> <u>Well I</u> 0.04 4"  0.16 6"  0.37 Other	Diameter Multiplier 0.65 1.47 radius ² * 0.163			
Time	Temp (°)	F) pH	Cond. (mS/cm or µS/cm)	I	oidity (TUs)	Gals. Removed				
			Insublicie	# W	tes	for Purpe o	- Sample			
Did well de	water?	Yes	No /	Gallon	s actuall	y evacuated:	<u> </u>			
Sampling D	ate:		Sampling Time	e:		Depth to Wate	r: /			
Sample I.D.	: 5-2	14/		Labora	tory:	Test America	other			
Analyzed fo	r: TPH	-G STEX	MTBE TPH-D	Other:						
EB I.D. (if a	EB I.D. (if applicable):			Duplic	ate I.D.	(if applicable):				
Analyzed for: TPH-G BTEX MTBE T				Other:						
D.O. (if req	d):	Pre-purge:		mg/L	P	ost-purge:	mg/L			
O.R.P. (if re	q'd):	Pre-purge:		mV	P	ost-purge:	mV			

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

331371.	10861-1	٤. ١		Site. 16( 814 St. Drive Cred), 64						
Sampler:	JW			Date: 4/2/	14					
Well I.D.:	5-21	R		Well Diameter	r: 2 3 <b>4</b>	6 8				
Total Well	Depth (TE	)): <u>3</u> 9	1.44	Depth to Wate	er (DTW): 26	,14				
Depth to Fr	ee Produc	t:			Free Product (fe					
Referenced	to:	PVQ	Grade	D.O. Meter (if	req'd):	YSI HACH				
DTW with	80% Rech	arge [(F	leight of Water	Column x 0.20	)) + DTW]: 2	9.80				
Purge Method:	Bailer Disposable B Middleburg Electric Subn			Waterra Peristaltic stion Pump	Sampling Method Other	Disposable Bailer Extraction Port Dedicated Tubing				
8.7 (0 1 Case Volume	Gals.) X Speci	Z ified Volum	= 2 la . l nes Calculated Vo	Well Diametr 1" 2" 2" 3"	ter Multiplier Well 0.04 4" 0.16 6" 0.37 Othe	Diameter Multiplier  0,65  1.49  r radius ² * 0.163				
Time	Temp (°F)	pН	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Gals. Removed	Observations				
1132	67.7	7.46	1547	746	8.7	- 2 - 10 - 10				
WEU	DE W	ATER	ED E !	GALS						
						X				
1405	78.5	7.21	1582	147	ugmaronizati					
				VIII.						
Did well de	water?	(Ves)	No	Gallons actuall	ly evacuated:	1(				
Sampling D	ate: 4 \2.1	(4	Sampling Time	e: 1405	Depth to Wate	r: 26,14				
Sample I.D.	: 5-21B	>		Laboratory:	Teşt America (	Other				
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Other:						
EB I.D. (if a	pplicable)		@ . Time	Duplicate I.D.	(if applicable):	÷,				
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Other:	***************************************					
D.O. (if req'	d): Pr	e-purge:		^{mg} / _L P	ost-purge:	mg/ _L				
O.R.P. (if re	q'd): Pro	e-purge:		mV P	Post-purge:	⊚ mV				

BTS#: \4	0421-80	1		Site: 97093399						
Sampler: N				Date:	4/21					
Well I.D.:	5-224	-		Well D	iameter	: 2 3	4	6 8		
Total Well	Depth (TD	·):	*	Depth t	o Wate	r (DTW):				
Depth to Fr	ee Product	•		Thickness of Free Product (feet):						
Referenced	to:	PVC	Grade	D.O. Meter (if req'd): YSI HACH						
DTW with	80% Recha	arge [(H	leight of Water	Column	x 0.20	) + DTW]:				
Purge Method:	Bailer Disposable B Middleburg Electric Subm		0.1		Well Diamete 1" 2"		other:	Disposable Bailer Extraction Port Dedicated Tubing		
1 Case Volume	Gals.) X Speci	fied Volun	nes Calculated Vo	_ Gals.	3"	0.37	Other	radius ² * 0.163		
Time	Temp (°F)	pH Powke	Cond. (mS/cm or µS/cm)	Turb (NT	•	Gals. Remo	ved	Observations		
					***************************************					
·					<del>1 </del>					
Did well de	water?	Yes	No /	Gallons	actual	y evacuated	:	<i></i>		
Sampling D	ate:		Sampling Tim	e:		Depth to W	/ater	•		
Sample I.D.	*			Laborat	ory:	Test America	<u> </u>	ther		
Analyzed fo	or: TPH-G	ВТЕХ	MTBE TPH-D	Other:						
EB I.D. (if a	applicable)	1	@ . Time	Duplica	te I.D.	(if applicable	le):			
Analyzed fo	r: /трн-G	BTEX	MTBE TPH-D	Other:		A CONTRACTOR OF THE PARTY OF TH				
D.O. (if req	et): Pr	e-purge:		mg/L	P	ost-purge:		mg/ _L		
O.R.P. (if re	eq'd): Pr	e-purge:		mV	F	Post-purge:		mV		

BTS#: 140	424-PCI	<del>//</del>		Site: 9709 3399						
Sampler: \( \square\)	<u>}</u>			Date:	4/21/1	-				
Well I.D.: 4	1-228			Well D	)iameter:	: 2 3	4	6	8	
Total Well	Depth (TD	)):		Depth	to Water	(DTW):				
Depth to Fr	ee Product	- •		Thickness of Free Product (feet):						
Referenced	to:	PVC	Grade	D.O. Meter (if req'd): YSI HACH						
DTW with	80% Rech	arge [(H	leight of Water	Columi	n x 0.20)	) + DTW	]:			
Purge Method:	Bailer Disposable B Middleburg Electric Subm			Waterra Peristaltic tion Pump		Sampling	Method: Other:	/ ^X	Bailer Disposable Bailer Extraction Port Dedicated Tubing	
(( 1 Case Volume	Gals.) XSpeci	fied Volum	= nes Calculated Vo	_ Gals. lume	Well Diamete 1" 2" 3"	n Multiplier 0.04 0.16 0.37	Well I 4" 6" Other	<u>Diameter</u>	Multiplier 0.65 1.47 radius ² * 0.163	-
Time	Temp (°F)	pН	Cond. (mS/cm or µS/cm)		bidity ΓUs)	Gals. Re	moved		Observations	
			well fartel	- over					W	
	· · · · · · · · · · · · · · · · · · ·				······································					
		····								
			<u>, , , , , , , , , , , , , , , , , , , </u>							
Did well de	water?	Yes	No /	Gallon	s actuall	y evacua	ted:			
Sampling D	ate:		Sampling Time	9:		Depth to	Wate	r: /		
Sample I.D.	: S-22°	B		Labora	tory:	Test Amer	ica 9	ther_	THE CONTRACTOR OF THE CONTRACT	
Analyzed fo	r: TPH-G	втех	MTBE TPH-D	Other:						-
EB I.D. (if a	ipplicable)	:/	Duplic	ate I.D. (	if applig	able):				
Analyzed fo	Other:					***************************************	-			
D.O. (if req'	d): / Pr	e-purge:		$^{ m mg}/_{ m L}$	P	ost-purge:			mg _/	L
O.R.P. (if re	q'd); Pr	e-purge:		mV	P	ost-purge:	-		m	7

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

BTS #: \	10421-9	201		Site: C	1709	1933				
Sampler: {				Date:	4/21	14				
Well I.D.:	5-23	)		Well D	iameter	: 2 3	4	6 8		
Total Well	Depth (TD	):34,4	(5	Depth (	to Water	r (DTW):	25.1	67		
Depth to Fr	ee Product	:		Thickness of Free Product (feet):						
Referenced	to:	PVC	Grade	D.O. Meter (if req'd): YSI HACH						
DTW with	80% Rech	arge [(H	leight of Water	Columr	1 x 0.20	) + DTW]	: 27	1-42		
Purge Method:	Bailer Disposable B Middleburg Electric Subn			Waterra Peristaltic tion Pump		Sampling I	Method: Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing		
5-7 (1 Case Volume	Gais.) A	ر S fied Volum	= 17-\ nes Calculated Vo	_ Gals.	Well Diamete  1" 2" 3"	0.04 0.16 0.37	Well I 4" 6" Other	Diameter         Multiplier           0.65         1.47           radius ² * 0.163		
Time	Temp (°F)	pН	Cond. (mS/cm or aS/cm)	i	oidity (TUs)	Gals. Ren	noved	Observations		
1129	675	6.49	557,9	2	9 ₀	4.9				
1131	Well d	exalt	ved							
1440	69.3	8-19	488-0	Я	2					
	į									
Did well de	water?	(es)	No	Gallons	s actuall	y evacuat	ed: 9			
Sampling D	ate:		Sampling Time	e: [44	Q	Depth to	Wate	r: 25,86		
Sample I.D.	: 5-23	)		Labora	tory:	Test Americ		Other		
Analyzed fo	or: (TPH-G	BTEX	MTBE TPH-D	Other:						
EB I.D. (if a	applicable)	1:	@ . Time	Duplica	ate I.D.	(if applica	ble):	<del></del>		
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Other:				***************************************		
D.O. (if req	'd): Pr	e-purge:		$^{mg}/_{L}$	P	ost-purge:		mg/L		
O.R.P. (if re	eq'd): Pr	e-purge:		mV	P	ost-purge:		m∨		

Page _____ of _____

INCIDENT# 97093399

4618 5+

DATE: LI 71 110

CITY & STATE Oaklad CA

		v 279000				Obser	vations I	Jpon Arr	ival						Note Repairs Made	l es	tos of	Repair Date
Well ID	Manwa	ıy Cover	, Type, C	ondition	& Size	Pai	abeled / inted perly*	(Gri	l Cap pper) dition	Well I	.ock Co	ndition	Well Pad / Defalled Explanation of Maintenance Recommended			V	les or fell dition	and PM Initials
5-4	Standpipe	Flush	6	Р	Size (inch)	(1)	N	6	R	6	R	NL	6	Р	slightly below grade	Y	(4)	
5-5	Standpipe	Flush	(3)	Р	Size (inch)	0	N	G	R	(G)	R	NL	6	P	storm drain warrate rover	Y	(10)	
5-6	Standpipe	Flush	<b>(</b>	P	Size (inch)	0	N	(G)	R	(E)	R	NL	(G)	P	Lamand Plate pover-unservol	e ^Y	(V)	
5-9,	Standpipe	Flush	(E)	Р	Size (inch)	<b>Ø</b>	N	(G)	R	6	R	NL.	<b>©</b>	Þ		Y	<b>®</b>	· · · · · · · · · · · · · · · · · · ·
5-9	Standpipe	Flush	G	Р	Size (inch)	0	N	(C)	R	(B)	R	NL	(G)	P		Υ	Ø	
5-10	Standpipe	(Flush)	G	Р	Size (inch)	<u>(D)</u>	N	<u></u>	R	<b>O</b>	Ŕ	NL	<u>(G)</u>	Р		Y	(N)	
5-12	Standpipe	Flush	G	Р	Size (inch)	0	N	<b>©</b>	R	(6)	R	NL	G	Ð	2.38	Y	(A)	
5-13	Standplpe	Flush	G	Р	Size (inch)	8	N	<b>©</b>	R	(6)	R	NL	<u>(G)</u>	Р		Y	<b>(A)</b>	
5-14R	Standpipe	Flush	G	Р	Size (inch)	6	N	0	R	(G)	R	NL	(6)	Р		Y	<b>®</b>	
5-17-	Standpipe	Flush	G	P	Size (inch)	Ø	N	<u></u>	R	<b>(</b>	R	NL	On	Ø		Y	(4)	
5-18	Standpipe	Elush	G	Р	Size (inch)	Ø	N	<b>©</b>	R	(G)	R	NL	18 S	(P)		Y	<b>(</b> *)	
					TOTA	L#CAP	S REPLA	ACED =	0			= TOTAI	L#OFL	OCKS RE	EPLACED			
Gondition of S Abandor	oll Boring P ned Monitori			þ	(4)	lfP	OOR, Bor	ings/Well	IDs or Lo	cation Des	scription:					Y	(N)	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	xes that appl		Condi	tion of En	ıclosure	Children Carlotte Company	on of Are Enclosure		Com	pound Sec	urity	Emerge	ency Cont Visible	act info	Cleaning / Repairs Recommended and Conducted		os of lition	Repair Date and PM initials
NA Buildin Building w/ Fen Fenced Com Trailer	g ce Comp. pound		G	Þ	(N/A).	G	P	(N/A)	) G	P	(N/A)	Y	N	(NIA)	·	Y	<b>(b)</b>	
Number of Drums On-site	Does the L Source o				ed Correcti riting Legib		Dre	ım Condit	ion	Confirm Relati Environ	ed to		i Located		Detailed Explanation of Any Issues Resolved	Phot Dr Cont	ım	Date Drums Removed from Site and PM Initials
7	(s)	N	N/A	(J)	N	N/A	6	P	N/A	(v)	N	$\bigcirc$	N	N/A		Y	(N)	

G = Good (Acceptable) R = Replaced

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

Refe Courish

BTS

Print or type Name of Field Personnel & Consultant Company

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 tabeled in accordance with applicable regulations.
 Version 2.4, March 2008

NCIDENT# 07093399

4/21/14

DATE:

ADDRESS 4618 54.

CITY & STATE Oakland CA

						Obser	vations l	Jpon Arr	ival				egyddiaetha (di Challa Allachaid			T	3 (A) (A) (A)	
Well ID	Manwa	y Cover,	Type, C	ondition	& Size	Pai	abeled / nted perly*	(Gri	i Cap pper) dition	Well	Lock Co	ndition	Sur	Pad / face dition	Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	V	tos of lell dition	Repair Date and PM Initials
5-19	Standpipe	Flush	(9	Р	Size (inch)	0	N	6	R	(3)	R	NL	<b>©</b>	Р		Y	3	
5-20	Standpipe	Flush	<b>©</b>	P	Size (inch)	0	N	<b>(b)</b>	R	6	R	NL	<b>©</b>	Р		Y	(3)	· · · · · · · · · · · · · · · · · · ·
5-HA	Standplpe	Flush	<b>©</b>	Р	Size (inch)	0	N	6	R	େ	R	NL	<b>©</b>	Р		Y	(Z)	
5-218	Standpipe	Flush	6	Р	Size (inch)	0	N	<b>(6)</b>	R	<b>©</b>	R	NL	<b>©</b>	P		Y		;
5-22A	Standpipe	Flush	G	Р	Size (inch)	Υ	N	G	R	G	R	NL	G	Р	well covered	Y	(N)	
5-228	1		G	P	Size (inch)	Υ	N	G	R	G	R	NL	G	Р	Car. S. C.	Y	(N)	***************************************
_	Standpipe	for many	<b>©</b>	Р	Size (inch)	<b>(Y)</b>	N	6	R	(3)	R	NL	(6)	Р		Y		
	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Υ	N	
	Standpipe	Flush	O	P	Size (inch)	Υ	N	G	R	G	R	NL	G	Р		Y	. N	
	Standpipe	Flush	G	P	Size (inch)	Υ	N	G	R	G	R	NL	G	Р		Υ	N	
	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Υ	N	
					TOTA	L # CAP	S REPLA	CED =	0		D	= TOTA	L#OFLO	OCKS RI	EPLACED	<u> </u>	<del></del>	
Condition of S Abando	Soil Boring P. ned Monitori		G	Р	(NIA)	lf Po	OOR, Borl	ngs/Well	IDs or Lo	cation De	scription:					Y		
(Check bo	Compound xes that appl		Condi	tion of Er	iclosure		on of Area Enclosure		Com	pound Sec	curity	Emergi	ency Cont Visible	act Info	Cleaning / Repairs Recommended and Conducted	🖁 de en er er en e	os of lition	Repair Date and PM Initials
(ÑA Buildin Building w/ Fer Fenced Com Traile	nce Comp.		G	Р	(N/A)	G	р	(N/A)	G	Р	(N/A)	Y	N	(AIA)		Y		
Number of Drums On-site	Does the I Source o	abel Rev			ed Correcti riting Legib		Dru	m Condit	lon	Confirm Relat Environ	ed to	and the contract of the same	Located ess Interfe	STATE AND DESIGNATION OF THE PARTY OF THE PA	Detailed Explanation of Any Issues Resolved	Phot Dn Cond	ım	Date Drums Remoyed from Site and PM Initials
1	<b>②</b>	N	N/A	(८)	N	N/A	(6)	Р	N/A	(9)	N	(3)	N	N/A		Y	(N)	sagar a spáilte a chéil siciúil fhe na an ba

G = Good (Acceptable)

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).

Peterbin

375

R = Replaced

P = Poor (needs attention) NL = No Lock Required

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



## SORBENT SOCK EVALUATION FORM

Name: Peleismith	Date: H/21/14	Project Number:
Site Address: 461 8th 5th Onkland	Well ID: 5-6	Weather:
1) Time absorbent sock removed:	from well for inspection:	0920
2) Condition of sock:		
a) Length of sock showing	product saturation:	<b>10</b> '
b) Length of sock showing	dryness:	<u>→</u> Ø
c) Color of sock showing p	roduct saturation:	Lighbraun
d) Weight of the removed s		095kg 20865 216,12502
e) Weight of a new/clean/di	ry sock:	0.34 0.47 10.00 De 10.10 10.00
f) Difference in weight: (I	O-E) to 0.01 ounces.	0-61 kg 1-36 lbs 23.25 02
3) Picture of sock removed from v	well taken:	r .
4) Sock removed from well depos	ited into a waste drum:	
-Is drum labeled? Ye?	How full is drum? (%)	
5) After at least 15 minutes after r of the well casing.:	emoving the sock from the we	ell, measure (to 0.01ft) from the top
a) Depth to product:		19.80
b) Depth to water:	,	18-66
c) Thickness of product: (l	o-a)	14
6) Size and type of sock installed		20° PIG
7) Comments:	•	



## SORBENT SOCK EVALUATION FORM

Name: Referencesh	Date:	Project Number:
Site Address:  Hul 8th 5t. Oakland	Well ID: S-1つ	Weather:
1) Time absorbent sock removed	from well for inspection:	1320
2) Condition of sock:		
a) Length of sock showing	product saturation:	18", 20"
b) Length of sock showing	dryness:	
c) Color of sock showing p	roduct saturation:	lightbraun
d) Weight of the removed s	ock:	1.7816, 0.80k,28.2502
e) Weight of a new/clean/d	ry sock:	037 K, 2721 11.2502
f) Difference in weight: (1	D-E) to 0.01 ounces.	D.48kg, 1.06lb, 27.0002
3) Picture of sock removed from	well taken:	
4) Sock removed from well depos	sited into a waste drum:	
-Is drum labeled?	How full is drum? (%)	426
5) After at least 15 minutes after a of the well casing.:	emoving the sock from the we	ell, measure (to 0.01ft) from the top
a) Depth to product:		25.70
b) Depth to water:		26.09
c) Thickness of product: (	b-a)	0-39
6) Size and type of sock installed		TO PIG
7) Comments:	•	,

#### APPENDIX B

TESTAMERICA LABORATORIES, INC. ANALYTICAL REPORTS



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: 440-69478-1

Client Project/Site: 461 8th St., Oakland, CA

For:

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

Attn: Peter Schaefer

Heather Clark

Authorized for release by: 2/12/2014 9:34:53 AM

Heather Clark, Project Manager I (949)261-1022

heather.clark@testamericainc.com

·····LINKS ······

Review your project results through

Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com

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

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

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

# **Table of Contents**

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QC Sample Results	8
QC Association Summary	11
Definitions/Glossary	12
Certification Summary	13
Chain of Custody	14
Receipt Checklists	15

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#### **Sample Summary**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-69478-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-69478-1	S-6	Ground Water	01/31/14 08:54	02/06/14 08:30

3

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### **Case Narrative**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-69478-1

Job ID: 440-69478-1

Laboratory: TestAmerica Irvine

Narrative

**Job Narrative** 440-69478-1

#### Comments

No additional comments.

The sample was received on 2/6/2014 8:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

#### GC/MS VOA

No analytical or quality issues were noted.

#### **VOA Prep**

No analytical or quality issues were noted.

## **Client Sample Results**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-69478-1

Lab Sample ID: 440-69478-1

**Matrix: Ground Water** 

Client Sample ID: S-6						
Date Collected: 01/31/14 08:54						
Date Received: 02/06/14 08:30						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	16000		2500		ug/L			02/11/14 16:59	50
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		76 - 132			=		02/11/14 16:59	50
4-Bromofluorobenzene (Surr)	100		80 - 120					02/11/14 16:59	50
Toluene-d8 (Surr)	104		80 - 128					02/11/14 16:59	50
Benzene	1200	Qualifier		MIDL	ug/L		riepaieu	02/11/14 16:59	50
Method: 8260B - Volatile Orga Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	710		25		ug/L			02/11/14 16:59	50
Toluene	2700		25		ug/L			02/11/14 16:59	50
Xylenes, Total	2500		50		ug/L			02/11/14 16:59	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120			-		02/11/14 16:59	50
Dibromofluoromethane (Surr)	97		76 - 132					02/11/14 16:59	50

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## **Method Summary**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-69478-1

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

#### **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

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## **Lab Chronicle**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-69478-1

Lab Sample ID: 440-69478-1

Matrix: Ground Water

Client Sample ID: S-6

Date Collected: 01/31/14 08:54 Date Received: 02/06/14 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	161275	02/11/14 16:59	MP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		50	10 mL	10 mL	161276	02/11/14 16:59	MP	TAL IRV

#### Laboratory References:

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

А

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11

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

MD MD

Lab Sample ID: MB 440-161275/5

**Matrix: Water** 

**Analysis Batch: 161275** 

Client Sample ID: Method Blank

Prep Type: Total/NA

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			02/11/14 08:28	1
Ethylbenzene	ND		0.50		ug/L			02/11/14 08:28	1
Toluene	ND		0.50		ug/L			02/11/14 08:28	1
Xylenes, Total	ND		1.0		ug/L			02/11/14 08:28	1

MB MB Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 80 - 120 93 02/11/14 08:28 Dibromofluoromethane (Surr) 89 76 - 132 02/11/14 08:28 Toluene-d8 (Surr) 102 80 - 128 02/11/14 08:28

Lab Sample ID: LCS 440-161275/6

**Matrix: Water** 

**Analysis Batch: 161275** 

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

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	25.0	25.0		ug/L		100	68 - 130	
Ethylbenzene	25.0	28.4		ug/L		114	70 - 130	
m,p-Xylene	50.0	55.9		ug/L		112	70 - 130	
o-Xylene	25.0	27.0		ug/L		108	70 - 130	
Toluene	25.0	27.3		ug/L		109	70 - 130	

LCS LCS Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 101 80 - 120 Dibromofluoromethane (Surr) 88 76 - 132 Toluene-d8 (Surr) 103 80 - 128

Lab Sample ID: 320-6009-A-4 MS						Client Sample ID: I	Matrix Spike
Matrix: Water						Prep Tyr	pe: Total/NA
Analysis Batch: 161275							
	Sample	Sample	Spike	MS	MS	%Rec.	

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		25.0	24.3		ug/L		97	66 - 130	
Ethylbenzene	ND		25.0	26.8		ug/L		107	70 - 130	
m,p-Xylene	ND		50.0	53.2		ug/L		106	70 - 133	
o-Xylene	ND		25.0	25.8		ug/L		103	70 - 133	
Toluene	ND		25.0	26.5		ug/L		106	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	96		76 - 132
Toluene-d8 (Surr)	101		80 - 128

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

Lab Sample ID: 320-6009-A-4 MSD

**Matrix: Water** 

**Analysis Batch: 161275** 

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

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		25.0	24.1		ug/L		96	66 - 130	1	20
Ethylbenzene	ND		25.0	26.4		ug/L		106	70 - 130	1	20
m,p-Xylene	ND		50.0	51.8		ug/L		104	70 - 133	3	25
o-Xylene	ND		25.0	25.5		ug/L		102	70 - 133	1	20
Toluene	ND		25.0	26.1		ug/L		104	70 - 130	1	20
	Men	MCD									

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	96		76 - 132
Toluene-d8 (Surr)	102		80 - 128

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

Lab Sample ID: MB 440-161276/5

**Matrix: Water** 

Analysis Batch: 161276

MB M	IB
------	----

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/L			02/11/14 08:28	1
	MP MP						

	IVID	IVID				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		76 - 132		02/11/14 08:28	1
4-Bromofluorobenzene (Surr)	93		80 - 120		02/11/14 08:28	1
Toluene-d8 (Surr)	102		80 - 128		02/11/14 08:28	1

Lab Sample ID: LCS 440-161276/7

**Matrix: Water** 

Analysis Batch: 161276					
	Spike	LCS LCS		%	Rec.
Analyte	Added	Result Qualifier	Unit D	%Rec L	imits

437

ug/L

Volatile Fuel Hydrocarbons (C4-C12)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	89		76 - 132
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	105		80 - 128

Lab Sample ID: 320-6009-A-4 MS

**Matrix: Water** 

Analysis Batch: 161276

/ maryone Datem 101210	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons	91		1730	1350		ug/L		73	50 - 145	
(C4-C12)										

TestAmerica Irvine

Page 9 of 15

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

Client Sample ID: Method Blank

Prep Type: Total/NA

55 - 130

## **QC Sample Results**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-69478-1

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

Lab Sample ID: 320-6009-A-4 MS

**Matrix: Water** 

Surrogate

Analysis Batch: 161276

Dibromofluoromethane (Surr)

4-Bromofluorobenzene (Surr)

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

MS MS %Recovery Qualifier Limits 96 76 - 132 103 80 - 120

80 - 128

80 - 128

101

102

Lab Sample ID: 320-6009-A-4 MSD

**Matrix: Water** 

Analyte

(C4-C12)

Toluene-d8 (Surr)

Toluene-d8 (Surr)

Analysis Batch: 161276

Volatile Fuel Hydrocarbons

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

Spike MSD MSD %Rec. RPD Sample Sample Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Unit 1730 91 1360 ug/L 73 50 - 145 20

MSD MSD Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 96 76 - 132 4-Bromofluorobenzene (Surr) 100 80 - 120

## **QC Association Summary**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-69478-1

### **GC/MS VOA**

## Analysis Batch: 161275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-6009-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
320-6009-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-69478-1	S-6	Total/NA	Ground Water	8260B	
LCS 440-161275/6	Lab Control Sample	Total/NA	Water	8260B	
MB 440-161275/5	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 161276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-6009-A-4 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT	
				MS	
320-6009-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-69478-1	S-6	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
LCS 440-161276/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
				MS	
MB 440-161276/5	Method Blank	Total/NA	Water	8260B/CA_LUFT	
				MS	

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## **Definitions/Glossary**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-69478-1

## **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)
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)

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## **Certification Summary**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-69478-1

### **Laboratory: TestAmerica Irvine**

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

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

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^{*} Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine

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## **Login Sample Receipt Checklist**

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-69478-1

Login Number: 69478 List Source: TestAmerica Irvine

List Number: 1 Creator: Sung, Hubert

Greator: Sung, Hubert		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

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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: 440-76552-1

Client Project/Site: 461 8th St., Oakland, CA

For:

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

Attn: Peter Schaefer

Heather Clark

Authorized for release by: 5/7/2014 4:25:36 PM

Heather Clark, Project Manager I (949)261-1022

heather.clark@testamericainc.com

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Review your project results through

Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com

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

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

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

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## **Sample Summary**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-76552-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-76552-1	S-4	Ground Water	04/21/14 12:40	04/23/14 09:50
140-76552-2	S-6	Ground Water	04/21/14 10:20	04/23/14 09:50
140-76552-3	S-8	Ground Water	04/21/14 14:15	04/23/14 09:50
140-76552-4	S-9	Ground Water	04/21/14 14:55	04/23/14 09:50
140-76552-5	S-10	Ground Water	04/21/14 14:28	04/23/14 09:50
140-76552-6	S-12	Ground Water	04/21/14 13:45	04/23/14 09:50
140-76552-7	S-14R	Ground Water	04/21/14 15:00	04/23/14 09:50
140-76552-8	S-17	Ground Water	04/21/14 12:05	04/23/14 09:50
140-76552-9	S-18	Ground Water	04/21/14 12:06	04/23/14 09:50
140-76552-10	S-19	Ground Water	04/21/14 14:15	04/23/14 09:50
140-76552-11	S-20	Ground Water	04/21/14 14:45	04/23/14 09:50
140-76552-12	S-21B	Ground Water	04/21/14 14:05	04/23/14 09:50
140-76552-13	S-23	Ground Water	04/21/14 14:40	04/23/14 09:50

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#### **Case Narrative**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-76552-1

Job ID: 440-76552-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-76552-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/23/2014 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.1° C.

#### GC/MS VOA

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with batch 178188 were outside control limits: (440-76553-4 MS), (440-76553-4 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### **VOA Prep**

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

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TestAmerica Job ID: 440-76552-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Lab Sample ID: 440-76552-1

**Matrix: Ground Water** 

Client Sample ID: S-4 Date Collected: 04/21/14 12:40

Date Received: 04/23/14 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	380		50		ug/L			04/24/14 12:02	1
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		76 - 132			=		04/24/14 12:02	1
4-Bromofluorobenzene (Surr)	108		80 - 120					04/24/14 12:02	1
Toluene-d8 (Surr)	100		80 - 128					04/24/14 12:02	1
Method: 8260B - Volatile Orga	•	•	RI	MDI	Unit	n	Prenared	Analyzod	Dil Fac
	•	(GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	•	RL	MDL	Unit ug/L	D	Prepared	Analyzed 04/24/14 12:02	Dil Fac
Method: 8260B - Volatile Orga Analyte Benzene Ethylbenzene	Result	•		MDL		<b>D</b>	Prepared		Dil Fac
Analyte Benzene	Result 88	•	0.50	MDL	ug/L	<u>D</u> .	Prepared	04/24/14 12:02	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result 88 14	•	0.50 0.50	MDL	ug/L ug/L	<u> </u>	Prepared	04/24/14 12:02 04/24/14 12:02	Dil Fac
Analyte Benzene Ethylbenzene Toluene	Result  88 14 58	Qualifier	0.50 0.50 0.50	MDL	ug/L ug/L ug/L	D .	Prepared  Prepared	04/24/14 12:02 04/24/14 12:02 04/24/14 12:02	1 1 1 1
Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate	Result 88 14 58 42	Qualifier	0.50 0.50 0.50 1.0	MDL	ug/L ug/L ug/L	D .		04/24/14 12:02 04/24/14 12:02 04/24/14 12:02 04/24/14 12:02	Dil Fac  1 1 1 1 1 Dil Fac 1
Analyte Benzene Ethylbenzene Toluene Xylenes, Total	Result 88 14 58 42 %Recovery	Qualifier	0.50 0.50 0.50 1.0	MDL	ug/L ug/L ug/L	D		04/24/14 12:02 04/24/14 12:02 04/24/14 12:02 04/24/14 12:02 <i>Analyzed</i>	1 1 1 1

Client Sample ID: S-6 Lab Sample ID: 440-76552-2

Date Collected: 04/21/14 10:20 **Matrix: Ground Water** 

Date Received: 04/23/14 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	15000		2500		ug/L			04/24/14 12:31	50
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		76 - 132			-		04/24/14 12:31	50
4-Bromofluorobenzene (Surr)	106		80 - 120					04/24/14 12:31	50
Toluene-d8 (Surr)	102		80 - 128					04/24/14 12:31	50
	•	•				_			511.5
_	•	•				_	_		
Analyte	Result	(GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed 04/24/14 12:21	Dil Fac
Analyte Benzene	Result 1100	•	25	MDL	ug/L	<u>D</u> _	Prepared	04/24/14 12:31	50
Analyte	Result	•	25 25	MDL		D	Prepared	04/24/14 12:31 04/24/14 12:31	50
Analyte Benzene Ethylbenzene	Result 1100	•	25	MDL	ug/L	D -	Prepared	04/24/14 12:31	50
Analyte Benzene Ethylbenzene Toluene	Result 1100 650	•	25 25	MDL	ug/L ug/L	<u>D</u> -	Prepared	04/24/14 12:31 04/24/14 12:31	50
Analyte Benzene Ethylbenzene Toluene	Result 1100 650 3100	Qualifier	25 25 25 25	MDL	ug/L ug/L ug/L	<u> </u>	Prepared  Prepared	04/24/14 12:31 04/24/14 12:31 04/24/14 12:31	50 50 50
Analyte Benzene Ethylbenzene Toluene Xylenes, Total	Result 1100 650 3100 2300	Qualifier	25 25 25 50	MDL	ug/L ug/L ug/L	<u>D</u> -	· · · · · · · · · · · · · · · · · · ·	04/24/14 12:31 04/24/14 12:31 04/24/14 12:31 04/24/14 12:31	50 50 50
Toluene Xylenes, Total Surrogate	Result 1100 650 3100 2300 %Recovery	Qualifier	25 25 25 50 <i>Limits</i>	MDL	ug/L ug/L ug/L	<u>D</u> -	· · · · · · · · · · · · · · · · · · ·	04/24/14 12:31 04/24/14 12:31 04/24/14 12:31 04/24/14 12:31 Analyzed	50 50 50 50 <b>Dil Fac</b>

5/7/2014

TestAmerica Job ID: 440-76552-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Lab Sample ID: 440-76552-3

Date Collected: 04/21/14 14:15

**Matrix: Ground Water** 

Date Received: 04/23/14 09:50

**Client Sample ID: S-8** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			04/24/14 13:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		76 - 132			-		04/24/14 13:00	1
4-Bromofluorobenzene (Surr)	105		80 - 120					04/24/14 13:00	1
Toluene-d8 (Surr)	102		80 - 128					04/24/14 13:00	1
					//			04/04/44 40 00	
					//		•	04/04/44 40 00	
Benzene	ND		0.50		ug/L			04/24/14 13:00	1
Benzene Ethylbenzene	ND ND		0.50 0.50		ug/L ug/L			04/24/14 13:00	1 1
					-				1 1 1
Ethylbenzene	ND		0.50		ug/L			04/24/14 13:00	1 1 1
Ethylbenzene Toluene	ND ND	Qualifier	0.50 0.50		ug/L ug/L		Prepared	04/24/14 13:00 04/24/14 13:00	1 1 1 <b>Dil Fac</b>
Ethylbenzene Toluene Xylenes, Total	ND ND ND	Qualifier	0.50 0.50 1.0		ug/L ug/L		Prepared	04/24/14 13:00 04/24/14 13:00 04/24/14 13:00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ethylbenzene Toluene Xylenes, Total Surrogate	ND ND ND <b>%Recovery</b>	Qualifier	0.50 0.50 1.0 <i>Limits</i>		ug/L ug/L		Prepared	04/24/14 13:00 04/24/14 13:00 04/24/14 13:00 <i>Analyzed</i>	Dil Fac

Client Sample ID: S-9 Lab Sample ID: 440-76552-4

Date Collected: 04/21/14 14:55

Date Received: 04/23/14 09:50

**Matrix: Ground Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	1100		130		ug/L			04/25/14 00:22	2.5
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	87		76 - 132			-		04/25/14 00:22	2.5
4-Bromofluorobenzene (Surr)	107		80 - 120					04/25/14 00:22	2.5
Toluene-d8 (Surr)	99		80 - 128					04/25/14 00:22	2.5
- Method: 8260B - Volatile Organ	nic Compounds (	GC/MS)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	120		1.3		ug/L			04/25/14 00:22	2.5
Isopropyl Ether (DIPE)	ND		1.3		ug/L			04/25/14 00:22	2.5
Ethyl-t-butyl ether (ETBE)	ND		1.3		ug/L			04/25/14 00:22	2.5
Ethylbenzene	33		1.3		ug/L			04/25/14 00:22	2.5
Methyl-t-Butyl Ether (MTBE)	ND		1.3		ug/L			04/25/14 00:22	2.5
Tert-amyl-methyl ether (TAME)	ND		1.3		ug/L			04/25/14 00:22	2.5
Toluene	25		1.3		ug/L			04/25/14 00:22	2.5
Xylenes, Total	83		2.5		ug/L			04/25/14 00:22	2.5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120			-		04/25/14 00:22	2.5
Dibromofluoromethane (Surr)	87		76 - 132					04/25/14 00:22	2.5
Toluene-d8 (Surr)	99		80 - 128					04/25/14 00:22	2.5
- Method: 8260B - Volatile Orgar	nic Compounds (	(GC/MS) - R	A						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		25		ug/L			04/26/14 14:02	2.5

TestAmerica Irvine

Client Sample ID: S-9

Lab Sample ID: 440-76552-4

Date Collected: 04/21/14 14:55

Date Received: 04/23/14 09:50

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		04/26/14 14:02	2.5
Dibromofluoromethane (Surr)	92		76 - 132		04/26/14 14:02	2.5
Toluene-d8 (Surr)	102		80 - 128		04/26/14 14:02	2.5

Client Sample ID: S-10 Lab Sample ID: 440-76552-5

Date Collected: 04/21/14 14:28 Matrix: Ground Water

Date Received: 04/23/14 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	180		50		ug/L			04/24/14 13:57	1
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		76 - 132			_		04/24/14 13:57	1
4-Bromofluorobenzene (Surr)	104		80 - 120					04/24/14 13:57	1
Toluene-d8 (Surr)	103		80 - 128					04/24/14 13:57	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			04/24/14 13:57	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			04/24/14 13:57	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			04/24/14 13:57	1
Ethylbenzene	0.71		0.50		ug/L			04/24/14 13:57	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			04/24/14 13:57	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			04/24/14 13:57	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			04/24/14 13:57	1
Toluene	ND		0.50		ug/L			04/24/14 13:57	1
Xylenes, Total	ND		1.0		ug/L			04/24/14 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120			-		04/24/14 13:57	1
Dibromofluoromethane (Surr)	100		76 - 132					04/24/14 13:57	1
Toluene-d8 (Surr)	103		80 - 128					04/24/14 13:57	1

Client Sample ID: S-12 Lab Sample ID: 440-76552-6

Date Collected: 04/21/14 13:45

Date Received: 04/23/14 09:50

Matrix: Ground Water

Method: 8260B/CA_LUFTMS - V	- Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS								
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Volatile Fuel Hydrocarbons	1100	50	ug/L			04/24/14 14:26	1		
(C4-C12)									

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		76 - 132		04/24/14 14:26	1
4-Bromofluorobenzene (Surr)	106		80 - 120		04/24/14 14:26	1
Toluene-d8 (Surr)	104		80 ₋ 128		04/24/14 14:26	1

Method: 8260B - Volatile Organic O	Compounds (GC/MS)						
Analyte	Result Qualifier	RL	MDL Un	it D	Prepared	Analyzed	Dil Fac
Benzene	5.0	0.50	ug	/L		04/24/14 14:26	1

Client Sample ID: S-12

Lab Sample ID: 440-76552-6

Matrix: Ground Water

Date Collected: 04/21/14 13:45 Date Received: 04/23/14 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	9.5		0.50		ug/L			04/24/14 14:26	1
Toluene	3.3		0.50		ug/L			04/24/14 14:26	1
Xylenes, Total	38		1.0		ug/L			04/24/14 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120			-		04/24/14 14:26	1
Dibromofluoromethane (Surr)	102		76 - 132					04/24/14 14:26	1
Toluene-d8 (Surr)	104		80 - 128					04/24/14 14:26	1

Client Sample ID: S-14R Lab Sample ID: 440-76552-7

Date Collected: 04/21/14 15:00 Matrix: Ground Water

Date Received: 04/23/14 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	3700		100		ug/L			04/25/14 00:50	2
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		76 - 132			=		04/25/14 00:50	2
4-Bromofluorobenzene (Surr)	104		80 - 120					04/25/14 00:50	2
Toluene-d8 (Surr)	100		80 - 128					04/25/14 00:50	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	190		1.0		ug/L			04/25/14 00:50	2
Ethylbenzene	99		1.0		ug/L			04/25/14 00:50	2
Toluene	160		1.0		ug/L			04/25/14 00:50	2
Xylenes, Total	290		2.0		ug/L			04/25/14 00:50	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120			=		04/25/14 00:50	2
Dibromofluoromethane (Surr)	91		76 - 132					04/25/14 00:50	2
Toluene-d8 (Surr)	100		80 ₋ 128					04/25/14 00:50	2

Client Sample ID: S-17 Lab Sample ID: 440-76552-8

Date Collected: 04/21/14 12:05 Matrix: Ground Water

Date Received: 04/23/14 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	2500		100		ug/L			04/25/14 01:19	2
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	93		76 - 132			-		04/25/14 01:19	
4-Bromofluorobenzene (Surr)	105		80 - 120					04/25/14 01:19	2
Toluene-d8 (Surr)	99		80 - 128					04/25/14 01:19	2
Method: 8260B - Volatile Orga	nic Compounds (	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	140		1.0		ug/L			04/25/14 01:19	

Client Sample ID: S-17

Lab Sample ID: 440-76552-8

Matrix: Ground Water

Date Collected: 04/21/14 12:05 Date Received: 04/23/14 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	98		1.0		ug/L			04/25/14 01:19	2
Toluene	120		1.0		ug/L			04/25/14 01:19	2
Xylenes, Total	310		2.0		ug/L			04/25/14 01:19	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120			-		04/25/14 01:19	2
Dibromofluoromethane (Surr)	93		76 - 132					04/25/14 01:19	2
Toluene-d8 (Surr)	99		80 - 128					04/25/14 01:19	2

Client Sample ID: S-18

Lab Sample ID: 440-76552-9

Date Collected: 04/21/14 12:06

Matrix: Ground Water

Date Received: 04/23/14 09:50

Method: 8260B/CA_LUFTMS - Vol	atile Organic	Compound	s by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	1400		250		ug/L			04/25/14 01:48	5
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	88		76 - 132					04/25/14 01:48	5

Surroyate	70Necovery	Qualifier	Lilling		rrepareu	Allalyzeu	DII Fac
Dibromofluoromethane (Surr)	88		76 - 132	_		04/25/14 01:48	5
4-Bromofluorobenzene (Surr)	105		80 - 120			04/25/14 01:48	5
Toluene-d8 (Surr)	101		80 - 128			04/25/14 01:48	5
_							

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	240		2.5		ug/L			04/25/14 01:48	5
Ethylbenzene	70		2.5		ug/L			04/25/14 01:48	5
Toluene	190		2.5		ug/L			04/25/14 01:48	5
Xylenes, Total	230		5.0		ug/L			04/25/14 01:48	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120			-		04/25/14 01:48	- 5
Dibromofluoromethane (Surr)	88		76 - 132					04/25/14 01:48	5
Toluene-d8 (Surr)	101		80 - 128					04/25/14 01:48	5

Client Sample ID: S-19

Lab Sample ID: 440-76552-10

Date Collected: 04/21/14 14:15

Date Received: 04/23/14 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	32000		1300		ug/L			04/25/14 02:17	25
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94	-	76 - 132			-		04/25/14 02:17	25
4-Bromofluorobenzene (Surr)	105		80 - 120					04/25/14 02:17	25
Toluene-d8 (Surr)	100		80 - 128					04/25/14 02:17	25

Method: 8260B - Volatile Organic (	Compounds (GC/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	580	13		ug/L			04/25/14 02:17	25

TestAmerica Irvine

**Matrix: Ground Water** 

**Matrix: Ground Water** 

04/24/14 16:50

**Matrix: Ground Water** 

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Lab Sample ID: 440-76552-10

Date Collected: 04/21/14 14:15 Matrix: Ground Water

Date Received: 04/23/14 09:50

Client Sample ID: S-19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	940		13		ug/L			04/25/14 02:17	25
Toluene	1400		13		ug/L			04/25/14 02:17	25
Xylenes, Total	4300		25		ug/L			04/25/14 02:17	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120			-		04/25/14 02:17	25
Dibromofluoromethane (Surr)	94		76 - 132					04/25/14 02:17	25
Toluene-d8 (Surr)	100		80 - 128					04/25/14 02:17	25

Client Sample ID: S-20 Lab Sample ID: 440-76552-11

Date Collected: 04/21/14 14:45

Date Received: 04/23/14 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	3800		500		ug/L			04/24/14 16:50	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98	-	76 - 132			-		04/24/14 16:50	10

Analyte  Benzene		Qualifier		MDL	Unit ug/L	D	Prepared	Analyzed 04/24/14 16:50	Dil Fac
_			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method. 02000 - Volatile Organi	c Compounds (	JC/IVIJ)							
Method: 8260B - Volatile Organi	c Compounds ((	CC/MS)							
Toluene-d8 (Surr)	100		80 - 128					04/24/14 16:50	10
4-Bromofluorobenzene (Surr)	106		80 - 120					04/24/14 16:50	10
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			70 - 132					04/24/14 10.30	10

Xylenes, Total	350	10	ug/L		04/24/14 16:50	10
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106	80 - 120		<del></del>	04/24/14 16:50	10
Dibromofluoromethane (Surr)	98	76 - 132			04/24/14 16:50	10
Toluene-d8 (Surr)	100	80 - 128			04/24/14 16:50	10

5.0

ug/L

350

Client Sample ID: S-21B Lab Sample ID: 440-76552-12

Date Collected: 04/21/14 14:05

Date Received: 04/23/14 09:50

**Toluene** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	52		50		ug/L			04/24/14 17:19	1
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		76 - 132			-		04/24/14 17:19	1
4-Bromofluorobenzene (Surr)	105		80 - 120					04/24/14 17:19	1
Toluene-d8 (Surr)	100		80 - 128					04/24/14 17:19	1
- Method: 8260B - Volatile Orga	nic Compounds (	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.7		0.50		ug/L			04/24/14 17:19	1

## **Client Sample Results**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-76552-1

Client Sample ID: S-21B

Lab Sample ID: 440-76552-12

**Matrix: Ground Water** 

Date Collected: 04/21/14 14:05	,
Date Received: 04/23/14 09:50	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.80		0.50		ug/L			04/24/14 17:19	1
Toluene	2.4		0.50		ug/L			04/24/14 17:19	1
Xylenes, Total	4.7		1.0		ug/L			04/24/14 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120			-		04/24/14 17:19	1
Dibromofluoromethane (Surr)	96		76 - 132					04/24/14 17:19	1
Toluene-d8 (Surr)	100		80 - 128					04/24/14 17:19	1

Lab Sample ID: 440-76552-13 Client Sample ID: S-23

Date Collected: 04/21/14 14:40

Date Received: 04/23/14 09:50

**Matrix: Ground Water** 

Date	Neceiveu.	07/23/	 03.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	1700		100		ug/L			04/25/14 02:45	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	93		76 - 132			-		04/25/14 02:45	2
4-Bromofluorobenzene (Surr)	104		80 - 120					04/25/14 02:45	2

Toluene-d8 (Surr)	100		80 - 128					04/25/14 02:45	2
Method: 8260B - Volatile Org	ganic Compounds (	GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	110		1.0		ug/L			04/25/14 02:45	2
Ethylbenzene	8.4		1.0		ug/L			04/25/14 02:45	2
Toluene	47		1.0		ug/L			04/25/14 02:45	2
Xylenes, Total	95		2.0		ug/L			04/25/14 02:45	2
-									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		04/25/14 02:45	2
Dibromofluoromethane (Surr)	93		76 - 132		04/25/14 02:45	2
Toluene-d8 (Surr)	100		80 - 128		04/25/14 02:45	2

## **Method Summary**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-76552-1

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

#### **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

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Lab Sample ID: 440-76552-1

**Matrix: Ground Water** 

Date Collected: 04/21/14 12:40 Date Received: 04/23/14 09:50

Client Sample ID: S-4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	177994	04/24/14 12:02	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	177995	04/24/14 12:02	YK	TAL IRV

Client Sample ID: S-6 Lab Sample ID: 440-76552-2

Matrix: Ground Water

Date Collected: 04/21/14 10:20 Date Received: 04/23/14 09:50

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Number or Analyzed Туре Run Factor Amount Analyst Lab 04/24/14 12:31 ΥK TAL IRV Total/NA Analysis 8260B 50 10 mL 10 mL 177994 Total/NA Analysis 50 10 mL 10 mL 177995 04/24/14 12:31 YK TAL IRV 8260B/CA_LUFTM S

Client Sample ID: S-8 Lab Sample ID: 440-76552-3

Date Collected: 04/21/14 14:15 Matrix: Ground Water

Date Received: 04/23/14 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	177994	04/24/14 13:00	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM		1	10 mL	10 mL	177995	04/24/14 13:00	YK	TAL IRV

Client Sample ID: S-9 Lab Sample ID: 440-76552-4

Date Collected: 04/21/14 14:55 Matrix: Ground Water

Date Received: 04/23/14 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	2.5	10 mL	10 mL	178499	04/26/14 14:02	AA	TAL IRV
Total/NA	Analysis	8260B		2.5	10 mL	10 mL	178188	04/25/14 00:22	TR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM		2.5	10 mL	10 mL	178189	04/25/14 00:22	TR	TAL IRV
		S								

Client Sample ID: S-10 Lab Sample ID: 440-76552-5

Date Collected: 04/21/14 14:28 Matrix: Ground Water

Date Received: 04/23/14 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	177994	04/24/14 13:57	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	177995	04/24/14 13:57	YK	TAL IRV

Client Sample ID: S-12 Lab Sample ID: 440-76552-6 Date Collected: 04/21/14 13:45

**Matrix: Ground Water** 

Date Received: 04/23/14 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	177994	04/24/14 14:26	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	177995	04/24/14 14:26	YK	TAL IRV

Client Sample ID: S-14R Lab Sample ID: 440-76552-7

**Matrix: Ground Water** Date Collected: 04/21/14 15:00

Date Received: 04/23/14 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	178188	04/25/14 00:50	TR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		2	10 mL	10 mL	178189	04/25/14 00:50	TR	TAL IRV

Client Sample ID: S-17 Lab Sample ID: 440-76552-8

Date Collected: 04/21/14 12:05 **Matrix: Ground Water** 

Date Received: 04/23/14 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	178188	04/25/14 01:19	TR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM		2	10 mL	10 mL	178189	04/25/14 01:19	TR	TAL IRV

Client Sample ID: S-18 Lab Sample ID: 440-76552-9 **Matrix: Ground Water** 

Date Collected: 04/21/14 12:06 Date Received: 04/23/14 09:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	178188	04/25/14 01:48	TR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		5	10 mL	10 mL	178189	04/25/14 01:48	TR	TAL IRV

Client Sample ID: S-19 Lab Sample ID: 440-76552-10

Date Collected: 04/21/14 14:15 Date Received: 04/23/14 09:50

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	178188	04/25/14 02:17	TR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		25	10 mL	10 mL	178189	04/25/14 02:17	TR	TAL IRV

TestAmerica Irvine

**Matrix: Ground Water** 

### **Lab Chronicle**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-76552-1

Lab Sample ID: 440-76552-11

**Matrix: Ground Water** 

Client Sample ID: S-20 Date Collected: 04/21/14 14:45 Date Received: 04/23/14 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	177994	04/24/14 16:50	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		10	10 mL	10 mL	177995	04/24/14 16:50	YK	TAL IRV

Client Sample ID: S-21B Lab Sample ID: 440-76552-12

Date Collected: 04/21/14 14:05 **Matrix: Ground Water** 

Date Received: 04/23/14 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	177994	04/24/14 17:19	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	177995	04/24/14 17:19	YK	TAL IRV

Client Sample ID: S-23 Lab Sample ID: 440-76552-13

Date Collected: 04/21/14 14:40 **Matrix: Ground Water** 

Date Received: 04/23/14 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	178188	04/25/14 02:45	TR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM		2	10 mL	10 mL	178189	04/25/14 02:45	TR	TAL IRV

#### **Laboratory References:**

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

TestAmerica Job ID: 440-76552-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

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

Lab Sample ID: MB 440-177994/4

**Matrix: Water** 

Analysis Batch: 177994

Client Sample ID: Method Blank

Prep Type: Total/NA

ı		MB	MR							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	ND		0.50		ug/L			04/24/14 08:11	1
	Isopropyl Ether (DIPE)	ND		0.50		ug/L			04/24/14 08:11	1
	Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			04/24/14 08:11	1
	Ethylbenzene	ND		0.50		ug/L			04/24/14 08:11	1
	Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			04/24/14 08:11	1
	Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			04/24/14 08:11	1
	tert-Butyl alcohol (TBA)	ND		10		ug/L			04/24/14 08:11	1
	Toluene	ND		0.50		ug/L			04/24/14 08:11	1
	Xylenes, Total	ND		1.0		ug/L			04/24/14 08:11	1
ı										

мв мв

Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	80 - 120	_		04/24/14 08:11	1
Dibromofluoromethane (Surr)	93	76 - 132			04/24/14 08:11	1
Toluene-d8 (Surr)	102	80 - 128			04/24/14 08:11	1

Lab Sample ID: LCS 440-177994/5

**Matrix: Water** 

Analysis Batch: 177994

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	25.0	24.3	-	ug/L		97	68 - 130	
Isopropyl Ether (DIPE)	25.0	24.5		ug/L		98	58 - 139	
Ethyl-t-butyl ether (ETBE)	25.0	27.0		ug/L		108	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	26.5		ug/L		106	63 _ 131	
o-Xylene	25.0	25.4		ug/L		102	70 - 130	
Tert-amyl-methyl ether (TAME)	25.0	28.2		ug/L		113	57 ₋ 139	
tert-Butyl alcohol (TBA)	125	126		ug/L		101	70 - 130	
Toluene	25.0	25.7		ug/L		103	70 - 130	

LCS LCS

%Recovery	Qualifier	Limits
100		80 - 120
98		76 - 132
102		80 - 128
	100 98	98

Lab Sample ID: 440-76553-D-1 MS

**Matrix: Water** 

Analysis Batch: 177994

Client Sample ID: Matrix Sp	oike
Prep Type: Total	/NA

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		25.0	24.8		ug/L		99	66 - 130	
Isopropyl Ether (DIPE)	ND		25.0	24.3		ug/L		97	64 - 138	
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.9		ug/L		108	70 - 130	
Ethylbenzene	ND		25.0	24.9		ug/L		100	70 - 130	
m,p-Xylene	ND		50.0	49.3		ug/L		99	70 - 133	
Methyl-t-Butyl Ether (MTBE)	0.66		25.0	28.1		ug/L		110	70 - 130	

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TestAmerica Job ID: 440-76552-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

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

Lab Sample ID: 440-76553-D-1 MS

**Matrix: Water** 

Analysis Batch: 177994

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

%Rec. Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier %Rec Limits Unit o-Xylene ND 25.0 24.9 99 70 - 133 ug/L Tert-amyl-methyl ether (TAME) ND 25.0 28.5 ug/L 114 68 - 133 tert-Butyl alcohol (TBA) ND 125 126 101 70 - 130 ug/L Toluene ND 25.0 26.8 ug/L 107 70 - 130

MS MS %Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 80 - 120 99 Dibromofluoromethane (Surr) 97 76 - 132 Toluene-d8 (Surr) 102 80 - 128

Lab Sample ID: 440-76553-D-1 MSD

**Matrix: Water** 

Analysis Batch: 177994

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		25.0	25.6		ug/L		102	66 - 130	3	20
Isopropyl Ether (DIPE)	ND		25.0	25.5		ug/L		102	64 - 138	5	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	28.1		ug/L		113	70 - 130	5	25
Ethylbenzene	ND		25.0	26.3		ug/L		105	70 - 130	5	20
m,p-Xylene	ND		50.0	51.2		ug/L		102	70 - 133	4	25
Methyl-t-Butyl Ether (MTBE)	0.66		25.0	29.1		ug/L		114	70 - 130	4	25
o-Xylene	ND		25.0	26.1		ug/L		104	70 - 133	5	20
Tert-amyl-methyl ether (TAME)	ND		25.0	30.5		ug/L		122	68 - 133	7	30
tert-Butyl alcohol (TBA)	ND		125	124		ug/L		99	70 - 130	2	25
Toluene	ND		25.0	27.2		ug/L		109	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	97		76 - 132
Toluene-d8 (Surr)	102		80 - 128

102

Lab Sample ID: MB 440-178188/4 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 178188

4-Bromofluorobenzene (Surr)

Analysis Batch: 176166									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			04/24/14 19:33	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			04/24/14 19:33	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			04/24/14 19:33	1
Ethylbenzene	ND		0.50		ug/L			04/24/14 19:33	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			04/24/14 19:33	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			04/24/14 19:33	1
Toluene	ND		0.50		ug/L			04/24/14 19:33	1
Xylenes, Total	ND		1.0		ug/L			04/24/14 19:33	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

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04/24/14 19:33

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

Lab Sample ID: MB 440-178188/4

**Matrix: Water** 

Analysis Batch: 178188

Client Sample ID: Method Blank

Prep Type: Total/NA

	INID	IVID				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		76 - 132		04/24/14 19:33	1
Toluene-d8 (Surr)	100		80 - 128		04/24/14 19:33	1

Lab Sample ID: LCS 440-178188/5

**Matrix: Water** 

Analysis Batch: 178188

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	25.0	23.9		ug/L		96	68 - 130	
Isopropyl Ether (DIPE)	25.0	22.3		ug/L		89	58 - 139	
Ethyl-t-butyl ether (ETBE)	25.0	24.6		ug/L		98	60 - 136	
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130	
m,p-Xylene	50.0	49.5		ug/L		99	70 - 130	
Methyl-t-Butyl Ether (MTBE)	25.0	24.0		ug/L		96	63 _ 131	
o-Xylene	25.0	24.7		ug/L		99	70 - 130	
Tert-amyl-methyl ether (TAME)	25.0	25.9		ug/L		104	57 - 139	
Toluene	25.0	25.8		ug/L		103	70 - 130	

LCS LCS %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 80 - 120 97 Dibromofluoromethane (Surr) 92 76 - 132 80 - 128 Toluene-d8 (Surr) 100

Lab Sample ID: 440-76553-D-4 MS

**Matrix: Water** 

Analysis Batch: 178188

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

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	6.8		25.0	29.4		ug/L		91	66 - 130	
Isopropyl Ether (DIPE)	ND		25.0	21.9		ug/L		88	64 - 138	
Ethyl-t-butyl ether (ETBE)	ND		25.0	25.0		ug/L		100	70 _ 130	
Ethylbenzene	140	E	25.0	133	E 4	ug/L		-23	70 - 130	
m,p-Xylene	210	E	50.0	218	E 4	ug/L		12	70 _ 133	
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.5		ug/L		102	70 _ 130	
o-Xylene	21		25.0	42.0		ug/L		86	70 - 133	
Tert-amyl-methyl ether (TAME)	ND		25.0	27.4		ug/L		110	68 _ 133	
tert-Butyl alcohol (TBA)	ND		125	119		ug/L		95	70 _ 130	
Toluene	ND		25.0	25.6		ug/L		102	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	92		76 - 132
Toluene-d8 (Surr)	102		80 - 128

TestAmerica Job ID: 440-76552-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

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

Lab Sample ID: 440-76553-D-4 MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 178188

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	6.8		25.0	29.2		ug/L		90	66 - 130	1	20
Isopropyl Ether (DIPE)	ND		25.0	21.1		ug/L		85	64 - 138	3	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.7		ug/L		99	70 - 130	1	25
Ethylbenzene	140	E	25.0	130	E 4	ug/L		-35	70 - 130	2	20
m,p-Xylene	210	E	50.0	210	E 4	ug/L		-4	70 - 133	4	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.4		ug/L		101	70 - 130	0	25
o-Xylene	21		25.0	40.2		ug/L		78	70 - 133	4	20
Tert-amyl-methyl ether (TAME)	ND		25.0	27.2		ug/L		109	68 - 133	1	30
tert-Butyl alcohol (TBA)	ND		125	111		ug/L		89	70 - 130	7	25
Toluene	ND		25.0	24.8		ug/L		99	70 - 130	3	20

MSD MSD Surrogate %Recovery Qualifier Limits 80 - 120 4-Bromofluorobenzene (Surr) 99 Dibromofluoromethane (Surr) 93 76 - 132 100 80 - 128 Toluene-d8 (Surr)

Lab Sample ID: MB 440-178499/4 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 178499

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10		ug/L			04/26/14 10:47	1
	МВ	МВ							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		04/26/14 10:47	1
Dibromofluoromethane (Surr)	90		76 - 132		04/26/14 10:47	1
Toluene-d8 (Surr)	96		80 - 128		04/26/14 10:47	1

Lab Sample ID: LCS 440-178499/5 **Client Sample ID: Lab Control Sample Matrix: Water** 

Analysis Batch: 178499

	Spike	LUS	LUS				70Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
tert-Butyl alcohol (TBA)	125	121		ug/L		97	70 - 130	

	LCS I	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	97		76 - 132
Toluene-d8 (Surr)	97		80 ₋ 128

Lab Sample ID: 440-76651-B-15 MS Client Sample ID: Matrix Spike

**Matrix: Water** Analysis Batch: 178499

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Unit %Rec Limits tert-Butyl alcohol (TBA) ND 2500 2670 ug/L 107 70 - 130

TestAmerica Irvine

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: 440-76651-B-15 MS

**Matrix: Water** 

Analysis Batch: 178499

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	94		76 - 132
Toluene-d8 (Surr)	100		80 - 128

Lab Sample ID: 440-76651-B-15 MSD

**Matrix: Water** 

Analysis Batch: 178499

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

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
tert-Butyl alcohol (TBA)	ND		2500	2400		ug/L		96	70 - 130	11	25

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 80 - 120 Dibromofluoromethane (Surr) 93 76 - 132 110 80 - 128 Toluene-d8 (Surr)

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

Lab Sample ID: MB 440-177995/4 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

Analyte

Analysis Batch: 177995

MB MB Result Qualifier

102

Volatile Fuel Hydrocarbons (C4-C12)	ND		50	ug/L		04/24/14 08:11	1	
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
Dibromofluoromethane (Surr)	93		76 - 132			04/24/14 08:11	1	
4-Bromofluorobenzene (Surr)	105		80 - 120			04/24/14 08:11	1	

80 - 128

RL

MDL Unit

Lab Sample ID: LCS 440-177995/6

**Matrix: Water** 

Toluene-d8 (Surr)

**Analysis Batch: 177995** 

**Client Sample ID: Lab Control Sample** 

Analyzed

04/24/14 08:11

Prepared

Prep Type: Total/NA

Dil Fac

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons	 500	449		ug/L		90	55 - 130	
(C4-C12)								

	LCS	LCS
Surrogate	%Recovery	Qualifier
Dibromofluoromethane (Surr)	101	

Surrogate	%Recovery	Quaimer	Limits
Dibromofluoromethane (Surr)	101		76 - 132
4-Bromofluorobenzene (Surr)	108		80 - 120
Toluene-d8 (Surr)	103		80 128

Prep Type: Total/NA

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

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

Lab Sample ID: 440-76553-D-1 MS Client Sample ID: Matrix Spike

**Matrix: Water** 

Analysis Batch: 177995

	Sample	Sample	Spike	IVIO	IVIO				70Kec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons	ND		1730	1450		ug/L		84	50 - 145	
(C4 C12)										

(C4-C12)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	97		76 - 132
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	102		80 - 128

Lab Sample ID: 440-76553-D-1 MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Water** Prep Type: Total/NA

Analysis Batch: 177995

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Limits Limit Analyte Unit %Rec RPD 1730 50 - 145 Volatile Fuel Hydrocarbons ND 1470 ug/L 85 20

(C4-C12)

	MSD M	SD	
Surrogate	%Recovery Q	ualifier	Limits
Dibromofluoromethane (Surr)	97		76 - 132
4-Bromofluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	102		80 - 128

Lab Sample ID: MB 440-178189/4 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 178189

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ua/l			04/24/14 19:33	1	

мв мв

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		76 - 132			04/24/14 19:33	1
4-Bromofluorobenzene (Surr)	102		80 - 120			04/24/14 19:33	1
Toluene-d8 (Surr)	100		80 - 128			04/24/14 19:33	1

Lab Sample ID: LCS 440-178189/6	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 178189	

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit Limits 500 406 Volatile Fuel Hydrocarbons ug/L 55 - 130 (C4-C12)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	92		76 - 132
4-Bromofluorobenzene (Surr)	105		80 - 120
Toluene d8 (Surr)	101		80 128

TestAmerica Job ID: 440-76552-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Lab Sample ID: 440-76553-D-4 MS

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

Client Sample ID: Ma	atrix Spike
Pron Type	· Total/NA

**Matrix: Water** 

Analysis Batch: 178189

	Sample	Sample	<b>Spike</b>	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons	10000	E	1730	8760	E 4	ug/L		-99	50 - 145	
(C4-C12)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	92		76 - 132
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	102		80 - 128

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Lab Sample ID: 440-76553-D-4 MSD **Matrix: Water** 

Analysis Batch: 178189

,	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Volatile Fuel Hydrocarbons	10000	E	1730	8570	E 4	ug/L		-110	50 - 145	2	20
(04.040)											

(C4-C12)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	93		76 - 132
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	100		80 - 128

TestAmerica Job ID: 440-76552-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

**GC/MS VOA** 

Analysis Batch: 177994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-76552-1	S-4	Total/NA	Ground Water	8260B	_
440-76552-2	S-6	Total/NA	<b>Ground Water</b>	8260B	
440-76552-3	S-8	Total/NA	Ground Water	8260B	
440-76552-5	S-10	Total/NA	Ground Water	8260B	
440-76552-6	S-12	Total/NA	<b>Ground Water</b>	8260B	
440-76552-11	S-20	Total/NA	<b>Ground Water</b>	8260B	
440-76552-12	S-21B	Total/NA	Ground Water	8260B	
440-76553-D-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-76553-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-177994/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-177994/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 177995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-76552-1	S-4	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76552-2	S-6	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76552-3	S-8	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76552-5	S-10	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76552-6	S-12	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76552-11	S-20	Total/NA	Ground Water	8260B/CA_LUFT	
	<u></u>			MS	
440-76552-12	S-21B	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76553-D-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT	
440 TOFFO D 4440D		T	144.4	MS	
440-76553-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT	
1.00.440.477005/0	Lab Control Control	÷	186-6	MS	
LCS 440-177995/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
MD 440 477005/4	Mathad Diagle	T-+-1/NIA	14/-4	MS	
MB 440-177995/4	Method Blank	Total/NA	Water	8260B/CA_LUFT	
_				MS	

Analysis Batch: 178188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-76552-4	S-9	Total/NA	Ground Water	8260B	
440-76552-7	S-14R	Total/NA	<b>Ground Water</b>	8260B	
440-76552-8	S-17	Total/NA	<b>Ground Water</b>	8260B	
440-76552-9	S-18	Total/NA	Ground Water	8260B	
440-76552-10	S-19	Total/NA	<b>Ground Water</b>	8260B	
440-76552-13	S-23	Total/NA	<b>Ground Water</b>	8260B	
440-76553-D-4 MS	Matrix Spike	Total/NA	Water	8260B	
440-76553-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-178188/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-178188/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 178189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-76552-4	S-9	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	

TestAmerica Irvine

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## **QC Association Summary**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-76552-1

## **GC/MS VOA (Continued)**

## Analysis Batch: 178189 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-76552-7	S-14R	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76552-8	S-17	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76552-9	S-18	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76552-10	S-19	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76552-13	S-23	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-76553-D-4 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-76553-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT	
				MS	
LCS 440-178189/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
				MS	
MB 440-178189/4	Method Blank	Total/NA	Water	8260B/CA_LUFT	
_				MS	

### Analysis Batch: 178499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-76552-4 - RA	S-9	Total/NA	Ground Water	8260B	
440-76651-B-15 MS	Matrix Spike	Total/NA	Water	8260B	
440-76651-B-15 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-178499/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-178499/4	Method Blank	Total/NA	Water	8260B	

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## **Definitions/Glossary**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Relative error ratio

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

TestAmerica Job ID: 440-76552-1

### **Qualifiers**

### **GC/MS VOA**

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

### **Glossary**

RER

RPD

TEF TEQ

RL

Abbreviation	These commonly used abbreviations may or may not be present in this report.
m m	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)
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

## **Certification Summary**

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-76552-1

## **Laboratory: TestAmerica Irvine**

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

Authority	Program	Certification ID	Expiration Date			
Alaska	State Program	10	CA01531	06-30-14		
Arizona	State Program	9	AZ0671	10-13-14		
California	LA Cty Sanitation Districts	9	10256	01-31-15		
California	State Program	9	2706	06-30-14		
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	07-31-14		
New Mexico	State Program	6	N/A	01-29-15		
Northern Mariana Islands	State Program	9	MP0002	01-31-14 *		
Oregon	NELAP	10	4005	01-29-15		
USDA	Federal		P330-09-00080	06-06-14		
USEPA UCMR	Federal	1	CA01531	01-31-15		

^{*} Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine

LAB (LOCATION)	Shell Oil P	roducts Chain Of Custody Reco	ord '
	Please Check:Appropriate Box:	Print Bill To Contact Name: INCIDE	ENT # (ENV SERVICES):
□ NV SERVICES	MOTIVA RETAIL SHELL RETAIL	241501 Peter Schaefer 9 7	0 9 3 3 9 9 DATE 4 21 (14
RENCO (	<b>☑</b> CONSULTANT ☐ UBES	PO.# 11 10 PO.# 11 11 11 11 11 11 11 11 11 11 11 11 11	SAP#
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SAMPLINU COMPANY	Iron cong	SITE ADDRESS, Street and City State	ULÓBAL IDNU
Blaine Tech Services	BTSS 4	161 8th St., Oakland CA  OF DELIVERABLE TO (Name Company, Office Location) PHONE NO	T0600101263
ACCHESS 1680 Rogers Avenue, San Jose, CA		Brenda Carter, CRA, Emeryville, CA 510-420-3343	ShellEDF@CRAWorld.com 241501-95-12.03
PROJECT CONTACT (Herdsapy or PDF Repolitio)  Lorin King		SAMPLER NAME(S) (Princ)	Shell-US-LabDataManagement@CRAworld col
(310) 885-4455 x 108 (310) 637-5802	lking@blainetech.com	Petelovnish William W	
TURNAROUND TIME (CALENDAR DAYS):  TANDARD (14 DAY)	4 HOURS RESULTS NEEDED ON WEEKEND	REQUES	TED AMALYSIS
□LA - RWQCB REPORT FORMAT □UST AGENCY:	· · · · · · · · · · · · · · · · · · ·	E, (9260B)	TEMPERATURE ON RECEIPT, °C
SPECIAL INSTRUCTIONS OR NOTES:  1) Please upload the "CRA EQUIS 4-file EDD" to the CRA Website (http://cralabeddupload.craworld.com/equis/default.aspx) and/or send it to the LabDataManagement@CRAworld.com email folder.  2) Please indicate that uploaded the EDD by including "EDD Uploaded to CRA website" in the body of to deliver the final PDF report to the Sheli-US-LabDataManagement@CRAwo folder  Copy final report to Sheli,Lab.Billing@craworld.com, SheliEDF@craworl LabDataManagement@CRAworld.com, and pschaefer@CRAWorld.com	at you have	(8015M) (8015M) (8260B) E, TBA, DIPE, TAM	
Emall invoice to Shell,Lab.Billing@craworld.com	Mately Codes, MC (groundy stor) M/S (gurfano yestor)	''urgear ''xtracta B) 3E (826 3E + TE B B B B B B B B B B B B B B B B B B B	
SAMPLE ID	1	O, F. O, P. P. MTB MTB MTB MTB Somp Somp (826 608)	
LAB: PROJECT NUMBER DATE SAMPLER WELL ID	TIME HCL HNOS H2SO4 NONE OTHER	TPH-GRO, Purgeable (TPH-DRO, Extractable BTEX (e260B) BTEX + MTBE (e260B) BTEX + MTBE (e260B) BTEX + TBA (EBE) 8750B VOGS Full list (8260B) Single Compound: 1,2 DCA (e260B) EDB (e260B) Ethanol (e260B) Methanol (e260B)	Container PID Readings or Laboratory Notes
WG 140121-89 CHAILY WV 5-4	1240 WG X 12504 NONE OTHER 3	A A B B B B B B B B B B B B B B B B B B	
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77, 5-8		<b>&gt;</b> ×	
WW-5-9		r X X	T - 1900 (04 %) ( 1900 (1900 (04)) (1900 (1904) (04) (1904 (1904) (1904) (1904 (1904) (1904)
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PC -5-12	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	X K	
- WW - 5-14R		X X .	
	1205   3	X X   X	
PC 5-18	1706 X 3	XX	
1 - WW - 5-19	1415 1 7	X X	
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Reinquished by (Signative)	Received by (Signature)	(TAP)	"Uzzliy 0845
Reinquietus (Signassire) XALX (TAP) 4/22/145/1015	Received by (Signature)  AND DAM (MM)		4 23 M 0550
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Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-76552-1

Login Number: 76552 List Source: TestAmerica Irvine

List Number: 1 Creator: Perez, Angel

Gleator. Ferez, Anger		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	